

# Safety Data Sheet

acc. to OSHA HCS

Printing date 02/28/2019

Reviewed on 02/28/2019

## 1 Identification

- **Product identifier**
- **Trade name:** GIEMSA STAIN, Certified DcGe-19
- **Article number:** 15942
- **CAS Number:**  
51811-82-6
- **EC number:**  
257-438-2
- **Application of the substance / the mixture** Laboratory chemicals
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: sgkceck@aol.com  
www.emsdiasum.com
- **Information department:** Product safety department
- **Emergency telephone number:**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

## 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS06 Skull and crossbones

Acute Tox. 2 H300 Fatal if swallowed.

Acute Tox. 3 H311 Toxic in contact with skin.

Acute Tox. 2 H330 Fatal if inhaled.



GHS08 Health hazard

Muta. 1A H340 May cause genetic defects.

Repr. 2 H361 Suspected of damaging fertility or the unborn child.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

- **Label elements**

- **GHS label elements** The substance is classified and labeled according to the Globally Harmonized System (GHS).

(Contd. on page 2)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 02/28/2019

Reviewed on 02/28/2019

Trade name: **GIEMSA STAIN, Certified DeGe-19**

(Contd. of page 1)

· **Hazard pictograms**

GHS06   GHS07   GHS08

· **Signal word** *Danger*· **Hazard-determining components of labeling:***Giesma stain*· **Hazard statements***Fatal if swallowed or if inhaled.**Toxic in contact with skin.**Causes skin irritation.**Causes serious eye irritation.**May cause genetic defects.**Suspected of damaging fertility or the unborn child.*· **Precautionary statements***Obtain special instructions before use.**Do not handle until all safety precautions have been read and understood.**Do not breathe dust/fume/gas/mist/vapors/spray.**Wash thoroughly after handling.**Do not eat, drink or smoke when using this product.**Use only outdoors or in a well-ventilated area.**Wear protective gloves/protective clothing/eye protection/face protection.**[In case of inadequate ventilation] wear respiratory protection.**If swallowed: Immediately call a poison center/doctor.**Rinse mouth.**If on skin: Wash with plenty of water.**IF INHALED: Remove person to fresh air and keep comfortable for breathing.**If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.**Continue rinsing.**IF exposed or concerned: Get medical advice/attention.**Call a poison center/doctor if you feel unwell.**Specific treatment is urgent (see on this label).**Take off immediately all contaminated clothing and wash it before reuse.**If skin irritation occurs: Get medical advice/attention.**If eye irritation persists: Get medical advice/attention.**Store in a well-ventilated place. Keep container tightly closed.**Store locked up.**Dispose of contents/container in accordance with local/regional/national/international regulations.*· **Classification system:**· **NFPA ratings (scale 0 - 4)***Health = 2**Fire = 0**Reactivity = 0*· **HMIS-ratings (scale 0 - 4)***Health = 2**Fire = 0**Reactivity = 0*

(Contd. on page 3)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 02/28/2019

Reviewed on 02/28/2019

**Trade name: GIEMSA STAIN, Certified DeGe-19**

(Contd. of page 2)

- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterization: Substances**
- **CAS No. Description**  
51811-82-6 Giesma stain
- **Identification number(s)**
- **EC number:** 257-438-2

### 4 First-aid measures

- **Description of first aid measures**
- **General information:**  
Immediately remove any clothing soiled by the product.  
Remove breathing apparatus only after contaminated clothing have been completely removed.  
In case of irregular breathing or respiratory arrest provide artificial respiration.
- **After inhalation:**  
Supply fresh air or oxygen; call for doctor.  
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** Do not induce vomiting; immediately call for medical help.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

(Contd. on page 4)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 02/28/2019

Reviewed on 02/28/2019

Trade name: **GIEMSA STAIN, Certified DeGe-19**

(Contd. of page 3)

### · Protective Action Criteria for Chemicals

· PAC-1:	30 mg/m <sup>3</sup>
· PAC-2:	330 mg/m <sup>3</sup>
· PAC-3:	2,000 mg/m <sup>3</sup>

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Thorough dedusting.  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.
- **Information about protection against explosions and fires:** Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.  
Store protective clothing separately.  
Avoid contact with the eyes and skin.
- **Breathing equipment:**  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

(Contd. on page 5)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 02/28/2019

Reviewed on 02/28/2019

Trade name: **GIEMSA STAIN, Certified DeGe-19**

(Contd. of page 4)

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles

## 9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

**Form:** Crystalline powder

**Color:** Dark green

- **Odor:** Odorless

- **Odor threshold:** Not determined.

- **pH-value:** Not applicable.

- **Change in condition**

**Melting point/Melting range:** 300 °C (572 °F)

**Boiling point/Boiling range:** 442.8 °C (829 °F)

- **Flash point:** 221 °C (429.8 °F)

- **Flammability (solid, gaseous):** Product is not flammable.  
Not determined.  
Not flammable.

- **Decomposition temperature:** Not determined.

- **Auto igniting:** Not determined.

- **Danger of explosion:** Product does not present an explosion hazard.

- **Explosion limits:**

**Lower:** Not determined.

**Upper:** Not determined.

- **Vapor pressure:** Not applicable.

- **Density at 20 °C (68 °F):** 0.99 g/cm<sup>3</sup> (8.26155 lbs/gal)

- **Relative density** Not determined.

- **Vapor density** Not applicable.

- **Evaporation rate** Not applicable.

- **Solubility in / Miscibility with**

**Water:** Insoluble.

- **Partition coefficient (n-octanol/water):** Not determined.

- **Viscosity:**

**Dynamic:** Not applicable.

(Contd. on page 6)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 02/28/2019

Reviewed on 02/28/2019

Trade name: **GIEMSA STAIN, Certified DeGe-19**

(Contd. of page 5)

<b>Kinematic:</b>	Not applicable.
<b>VOC content:</b>	0.00 % 0.0 g/l / 0.00 lb/gal

<b>Solids content:</b>	100.0 %
<b>Other information</b>	No further relevant information available.

## 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

Substance is not listed.

- **NTP (National Toxicology Program)**

Substance is not listed.

- **OSHA-Ca (Occupational Safety Health Administration)**

Substance is not listed.

## 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
- Water hazard class 3 (Self-assessment): extremely hazardous for water
- Do not allow product to reach ground water, water course or sewage system, even in small quantities.
- Danger to drinking water if even extremely small quantities leak into the ground.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.

(Contd. on page 7)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 02/28/2019

Reviewed on 02/28/2019

**Trade name: GIEMSA STAIN, Certified DeGe-19**



(Contd. of page 6)

- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

- |  |   |
|--|---|
| <b>· UN-Number</b>   | UN3243  |
| <b>· DOT, ADR, IMDG, IATA</b>  | UN3243  |
| <b>· UN proper shipping name</b>   | Solids containing toxic liquid, n.o.s.  |
| <b>· DOT</b>   | 3243 SOLIDS CONTAINING TOXIC LIQUID, N.O.S.   |
| <b>· ADR</b>   | SOLIDS CONTAINING TOXIC LIQUID, N.O.S.  |
| <b>· IMDG, IATA</b>  | SOLIDS CONTAINING TOXIC LIQUID, N.O.S.  |
| <b>· Transport hazard class(es)</b>  |   |
| <b>· DOT</b>   |   |
|  |  |
| <b>· Class</b>   | 6.1 Toxic substances  |
| <b>· Label</b>   | 6.1   |
|  |   |
| <b>· ADR, IMDG, IATA</b>   |   |
|  |  |
| <b>· Class</b>   | 6.1 Toxic substances  |
| <b>· Label</b>   | 6.1   |
| <b>· Packing group</b>   | II  |
| <b>· DOT, ADR, IMDG, IATA</b>  | II  |
| <b>· Environmental hazards:</b>  | Not applicable.   |
| <b>· Special precautions for user</b>  | Warning: Toxic substances   |
| <b>· Danger code (Kemler):</b>   | 60  |
| <b>· EMS Number:</b>   | F-A,S-A   |
| <b>· Stowage Category</b>  | B   |
| <b>· Stowage Code</b>  | SW2 Clear of living quarters.   |
| <b>· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable.   |

(Contd. on page 8)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 02/28/2019

Reviewed on 02/28/2019

Trade name: **GIEMSA STAIN, Certified DeGe-19**

(Contd. of page 7)

· **Transport/Additional information:**

· **DOT**

· **Quantity limitations**

On passenger aircraft/rail: 25 kg

On cargo aircraft only: 100 kg

· **ADR**

· **Excepted quantities (EQ)**

Code: E4

Maximum net quantity per inner packaging: 1 g

Maximum net quantity per outer packaging: 500 g

· **IMDG**

· **Limited quantities (LQ)**

500 g

· **Excepted quantities (EQ)**

Code: E4

Maximum net quantity per inner packaging: 1 g

Maximum net quantity per outer packaging: 500 g

· **UN "Model Regulation":**

UN 3243 SOLIDS CONTAINING TOXIC LIQUID, N.O.S., 6.1, II

## 15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **Sara**

· **Section 355 (extremely hazardous substances):**

Substance is not listed.

· **Section 313 (Specific toxic chemical listings):**

Substance is not listed.

· **TSCA (Toxic Substances Control Act):**

Substance is listed.

· **TSCA new (21st Century Act) (Substances not listed)**

51811-82-6 | Giesma stain

· **Proposition 65**

· **Chemicals known to cause cancer:**

Substance is not listed.

· **Chemicals known to cause reproductive toxicity for females:**

Substance is not listed.

· **Chemicals known to cause reproductive toxicity for males:**

Substance is not listed.

· **Chemicals known to cause developmental toxicity:**

Substance is not listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

Substance is not listed.

· **TLV (Threshold Limit Value established by ACGIH)**

Substance is not listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

Substance is not listed.

(Contd. on page 9)



# Safety Data Sheet

acc. to OSHA HCS

Printing date 02/28/2019

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Trade name: **GIEMSA STAIN, Certified DeGe-19**

(Contd. of page 8)

· **GHS label elements** The substance is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS06    GHS07    GHS08

· **Signal word** *Danger*

· **Hazard-determining components of labeling:**

*Giesma stain*

· **Hazard statements**

*Fatal if swallowed or if inhaled.*

*Toxic in contact with skin.*

*Causes skin irritation.*

*Causes serious eye irritation.*

*May cause genetic defects.*

*Suspected of damaging fertility or the unborn child.*

· **Precautionary statements**

*Obtain special instructions before use.*

*Do not handle until all safety precautions have been read and understood.*

*Do not breathe dust/fume/gas/mist/vapors/spray.*

*Wash thoroughly after handling.*

*Do not eat, drink or smoke when using this product.*

*Use only outdoors or in a well-ventilated area.*

*Wear protective gloves/protective clothing/eye protection/face protection.*

*[In case of inadequate ventilation] wear respiratory protection.*

*If swallowed: Immediately call a poison center/doctor.*

*Rinse mouth.*

*If on skin: Wash with plenty of water.*

*IF INHALED: Remove person to fresh air and keep comfortable for breathing.*

*If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.*

*Continue rinsing.*

*IF exposed or concerned: Get medical advice/attention.*

*Call a poison center/doctor if you feel unwell.*

*Specific treatment is urgent (see on this label).*

*Take off immediately all contaminated clothing and wash it before reuse.*

*If skin irritation occurs: Get medical advice/attention.*

*If eye irritation persists: Get medical advice/attention.*

*Store in a well-ventilated place. Keep container tightly closed.*

*Store locked up.*

*Dispose of contents/container in accordance with local/regional/national/international regulations.*

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16 Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

· **Date of preparation / last revision** 02/28/2019 / -

· **Abbreviations and acronyms:**

*ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)*

*IMDG: International Maritime Code for Dangerous Goods*

*DOT: US Department of Transportation*

(Contd. on page 10)

**Safety Data Sheet**  
**acc. to OSHA HCS**

Printing date 02/28/2019

Reviewed on 02/28/2019

**Trade name: GIEMSA STAIN, Certified DeGe-19**

(Contd. of page 9)

*IATA: International Air Transport Association*  
*ACGIH: American Conference of Governmental Industrial Hygienists*  
*EINECS: European Inventory of Existing Commercial Chemical Substances*  
*CAS: Chemical Abstracts Service (division of the American Chemical Society)*  
*NFPA: National Fire Protection Association (USA)*  
*HMIS: Hazardous Materials Identification System (USA)*  
*VOC: Volatile Organic Compounds (USA, EU)*  
*PBT: Persistent, Bioaccumulative and Toxic*  
*vPvB: very Persistent and very Bioaccumulative*  
*NIOSH: National Institute for Occupational Safety*  
*OSHA: Occupational Safety **Health***  
***TLV: Threshold Limit Value***  
***PEL: Permissible Exposure Limit***  
***REL: Recommended Exposure Limit***  
***Acute Tox. 2: Acute toxicity – Category 2***  
***Acute Tox. 3: Acute toxicity – Category 3***  
***Skin Irrit. 2: Skin corrosion/irritation – Category 2***  
***Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A***  
***Muta. 1A: Germ cell mutagenicity – Category 1A***  
***Repr. 2: Reproductive toxicity – Category 2***

US

# Safety Data Sheet

## according to WHS Regulations

Printing date 28.02.2019

Revision: 28.02.2019

### 1 Identification

- **Product identifier**
- **Trade name:** GIEMSA STAIN, Certified DcGe-19
- **Article number:** 15942
- **CAS Number:**  
51811-82-6
- **EC number:**  
257-438-2
- **Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Laboratory chemicals
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: sgkcck@aol.com  
www.emsdiasum.com
- ProSciTech Pty Ltd  
11 Carlton Street, Kirwan QLD 4817 Australia  
Telephone Number: (07) 4773 9444 - 8:30am - 5:00pm, Monday to Friday (excluding Public Holidays)  
Emergency Contact: (07) 4773 9444 - 8:30am - 5:00pm, Monday to Friday (excluding Public Holidays)  
Website: ems.proscitech.com
- Emgrid Australia Pty. Ltd.  
P.O. Box 118  
The Patch VIC 3792  
Australia  
Tel: 03 9752 1785  
Fax: 03 9752 1784  
Website: www.emgrid.com.au
- **Further information obtainable from:** Product safety department
- **Emergency telephone number:**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

### 2 Hazard(s) Identification

- **Classification of the substance or mixture**



GHS06 skull and crossbones

Acute Tox. 2 H300 Fatal if swallowed.  
Acute Tox. 3 H311 Toxic in contact with skin.  
Acute Tox. 2 H330 Fatal if inhaled.



GHS08 health hazard

Muta. 1A H340 May cause genetic defects.  
Repr. 2 H361 Suspected of damaging fertility or the unborn child.

(Contd. on page 2)

# Safety Data Sheet

## according to WHS Regulations

Printing date 28.02.2019

Revision: 28.02.2019

Trade name: **GIEMSA STAIN, Certified DeGe-19**

(Contd. of page 1)



GHS07

*Skin Irrit. 2 H315 Causes skin irritation.**Eye Irrit. 2A H319 Causes serious eye irritation.*· **Label elements**· **GHS label elements***The substance is classified and labelled according to the Globally Harmonised System (GHS).*· **Hazard pictograms**

GHS06

GHS07

GHS08

· **Signal word** *Danger*· **Hazard-determining components of labelling:***Giesma stain*· **Hazard statements***Fatal if swallowed.**Toxic in contact with skin.**Fatal if inhaled.**Causes skin irritation.**Causes serious eye irritation.**May cause genetic defects.**Suspected of damaging fertility or the unborn child.*· **Precautionary statements***Obtain special instructions before use.**Do not handle until all safety precautions have been read and understood.**Do not breathe dust/fume/gas/mist/vapours/spray.**Wash thoroughly after handling.**Do not eat, drink or smoke when using this product.**Use only outdoors or in a well-ventilated area.**Wear protective gloves/protective clothing/eye protection/face protection.**Wear respiratory protection.**IF SWALLOWED: Immediately call a POISON CENTER/ doctor.**Rinse mouth.**IF ON SKIN: Wash with plenty of water.**IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.**IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.**Continue rinsing.**IF exposed or concerned: Get medical advice/attention.**Call a POISON CENTER/doctor if you feel unwell.**Specific treatment is urgent (see on this label).**Take off immediately all contaminated clothing and wash it before reuse.**If skin irritation occurs: Get medical advice/attention.**If eye irritation persists: Get medical advice/attention.**Store in a well-ventilated place. Keep container tightly closed.**Store locked up.**Dispose of contents/container in accordance with local/regional/national/international regulations.*

(Contd. on page 3)

## Safety Data Sheet according to WHS Regulations

Printing date 28.02.2019

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**Trade name: GIEMSA STAIN, Certified DeGe-19**

(Contd. of page 2)

- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### 3 Composition and Information on Ingredients

- **Chemical characterisation: Substances**
- **CAS No. Description**  
51811-82-6 Giesma stain
- **Identification number(s)**
- **EC number:** 257-438-2

### 4 First Aid Measures

- **Description of first aid measures**
- **General information:**  
Immediately remove any clothing soiled by the product.  
Remove breathing equipment only after contaminated clothing have been completely removed.  
In case of irregular breathing or respiratory arrest provide artificial respiration.
- **After inhalation:**  
Supply fresh air or oxygen; call for doctor.  
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** Do not induce vomiting; call for medical help immediately.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire Fighting Measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

### 6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.

(Contd. on page 4)

# Safety Data Sheet

## according to WHS Regulations

Printing date 28.02.2019

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(Contd. of page 3)

See Section 13 for disposal information.

### 7 Handling and Storage

- **Handling:**
- **Precautions for safe handling**  
Thorough dedusting.  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.
- **Information about fire - and explosion protection:** Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.
- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls and personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists valid during the making were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Store protective clothing separately.  
Avoid contact with the eyes and skin.
- **Respiratory protection:**  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

(Contd. on page 5)

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Printing date 28.02.2019

Revision: 28.02.2019

Trade name: **GIEMSA STAIN, Certified DeGe-19**

(Contd. of page 4)

· **Eye protection:**

Tightly sealed goggles

### 9 Physical and Chemical Properties

· **Information on basic physical and chemical properties**· **General Information**· **Appearance:**

<b>Form:</b>	Crystalline powder
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<b>Colour:</b>	Dark green
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<b>· Odour:</b>	Odourless
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<b>· Odour threshold:</b>	Not determined.
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<b>· pH-value:</b>	Not applicable.
--------------------	-----------------

· **Change in condition**

<b>Melting point/freezing point:</b>	300 °C
--------------------------------------	--------

<b>Initial boiling point and boiling range:</b>	442.8 °C
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<b>· Flash point:</b>	221 °C
-----------------------	--------

<b>· Flammability (solid, gas):</b>	Product is not flammable.
-------------------------------------	---------------------------

	Not determined.
--	-----------------

	Not applicable.
--	-----------------

<b>· Decomposition temperature:</b>	Not determined.
-------------------------------------	-----------------

<b>· Auto-ignition temperature:</b>	Not determined.
-------------------------------------	-----------------

<b>· Explosive properties:</b>	Product does not present an explosion hazard.
--------------------------------	---

· **Explosion limits:**

<b>Lower:</b>	Not determined.
---------------	-----------------

<b>Upper:</b>	Not determined.
---------------	-----------------

<b>· Vapour pressure:</b>	Not applicable.
---------------------------	-----------------

<b>· Density at 20 °C:</b>	0.99 g/cm <sup>3</sup>
----------------------------	------------------------

<b>· Relative density</b>	Not determined.
---------------------------	-----------------

<b>· Vapour density</b>	Not applicable.
-------------------------	-----------------

<b>· Evaporation rate</b>	Not applicable.
---------------------------	-----------------

· **Solubility in / Miscibility with water:**

	Insoluble.
--	------------

<b>· Partition coefficient: n-octanol/water:</b>	Not determined.
--	-----------------

· **Viscosity:**

<b>Dynamic:</b>	Not applicable.
-----------------	-----------------

<b>Kinematic:</b>	Not applicable.
-------------------	-----------------

· **Solvent content:**

<b>VOC (EC)</b>	0.00 %
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<b>Solids content:</b>	100.0 %
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(Contd. on page 6)

## Safety Data Sheet according to WHS Regulations

Printing date 28.02.2019

Revision: 28.02.2019

Trade name: **GIEMSA STAIN, Certified DeGe-19**

(Contd. of page 5)

· **Other information** *No further relevant information available.*

### 10 Stability and Reactivity

- **Reactivity** *No further relevant information available.*
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** *No decomposition if used according to specifications.*
- **Possibility of hazardous reactions** *No dangerous reactions known.*
- **Conditions to avoid** *No further relevant information available.*
- **Incompatible materials:** *No further relevant information available.*
- **Hazardous decomposition products:** *No dangerous decomposition products known.*

### 11 Toxicological Information

- **Information on toxicological effects**
- **Acute toxicity**
- **Primary irritant effect:**
- **Skin corrosion/irritation** *Irritant to skin and mucous membranes.*
- **Serious eye damage/irritation** *Irritating effect.*
- **Respiratory or skin sensitisation** *No sensitising effects known.*
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**  
*Muta. 1A, Repr. 2*

### 12 Ecological Information

- **Toxicity**
- **Aquatic toxicity:** *No further relevant information available.*
- **Persistence and degradability** *No further relevant information available.*
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** *No further relevant information available.*
- **Mobility in soil** *No further relevant information available.*
- **Additional ecological information:**
- **General notes:**  
*Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water  
Do not allow product to reach ground water, water course or sewage system, even in small quantities.  
Danger to drinking water if even extremely small quantities leak into the ground.*
- **Results of PBT and vPvB assessment**
- **PBT:** *Not applicable.*
- **vPvB:** *Not applicable.*
- **Other adverse effects** *No further relevant information available.*

### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**  
*Must not be disposed together with household garbage. Do not allow product to reach sewage system.*

(Contd. on page 7)



# Safety Data Sheet

according to WHS Regulations

Printing date 28.02.2019


Revision: 28.02.2019

Trade name: **GIEMSA STAIN, Certified DeGe-19**

(Contd. of page 6)

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

· <b>UN-Number</b>	
· <b>ADG, IMDG, IATA</b>	UN3243
· <b>UN proper shipping name</b>	
· <b>ADG</b>	3243 SOLIDS CONTAINING TOXIC LIQUID, N.O.S.
· <b>IMDG, IATA</b>	SOLIDS CONTAINING TOXIC LIQUID, N.O.S.
· <b>Transport hazard class(es)</b>	
· <b>ADG, IMDG, IATA</b>	
	
· <b>Class</b>	6.1 Toxic substances.
· <b>Label</b>	6.1
· <b>Packing group</b>	
· <b>ADG, IMDG, IATA</b>	II
· <b>Environmental hazards:</b>	Not applicable.
· <b>Special precautions for user</b>	Warning: Toxic substances.
· <b>Danger code (Kemler):</b>	60
· <b>EMS Number:</b>	F-A,S-A
· <b>Stowage Category</b>	B
· <b>Stowage Code</b>	SW2 Clear of living quarters.
· <b>Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADG</b>	
· <b>Limited quantities (LQ)</b>	500 g
· <b>Excepted quantities (EQ)</b>	Code: E4 Maximum net quantity per inner packaging: 1 g Maximum net quantity per outer packaging: 500 g
· <b>Transport category</b>	2
· <b>Tunnel restriction code</b>	D/E
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	500 g
· <b>Excepted quantities (EQ)</b>	Code: E4 Maximum net quantity per inner packaging: 1 g Maximum net quantity per outer packaging: 500 g
· <b>UN "Model Regulation":</b>	UN 3243 SOLIDS CONTAINING TOXIC LIQUID, N.O.S., 6.1, II

AU

(Contd. on page 8)

# Safety Data Sheet

## according to WHS Regulations

Printing date 28.02.2019

Revision: 28.02.2019

Trade name: **GIEMSA STAIN, Certified DeGe-19**

(Contd. of page 7)

### 15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **Australian Inventory of Chemical Substances**

Substance is listed.

· **Standard for the Uniform Scheduling of Medicines and Poisons**

Substance is not listed.

· **GHS label elements**

The substance is classified and labelled according to the Globally Harmonised System (GHS).

· **Hazard pictograms**



GHS06

GHS07

GHS08

· **Signal word** *Danger*

· **Hazard-determining components of labelling:**

*Giesma stain*

· **Hazard statements**

*Fatal if swallowed.*

*Toxic in contact with skin.*

*Fatal if inhaled.*

*Causes skin irritation.*

*Causes serious eye irritation.*

*May cause genetic defects.*

*Suspected of damaging fertility or the unborn child.*

· **Precautionary statements**

*Obtain special instructions before use.*

*Do not handle until all safety precautions have been read and understood.*

*Do not breathe dust/fume/gas/mist/vapours/spray.*

*Wash thoroughly after handling.*

*Do not eat, drink or smoke when using this product.*

*Use only outdoors or in a well-ventilated area.*

*Wear protective gloves/protective clothing/eye protection/face protection.*

*Wear respiratory protection.*

*IF SWALLOWED: Immediately call a POISON CENTER/ doctor.*

*Rinse mouth.*

*IF ON SKIN: Wash with plenty of water.*

*IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.*

*IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.*

*Continue rinsing.*

*IF exposed or concerned: Get medical advice/attention.*

*Call a POISON CENTER/doctor if you feel unwell.*

*Specific treatment is urgent (see on this label).*

*Take off immediately all contaminated clothing and wash it before reuse.*

*If skin irritation occurs: Get medical advice/attention.*

*If eye irritation persists: Get medical advice/attention.*

*Store in a well-ventilated place. Keep container tightly closed.*

*Store locked up.*

*Dispose of contents/container in accordance with local/regional/national/international regulations.*

(Contd. on page 9)

# Safety Data Sheet

## according to WHS Regulations

Printing date 28.02.2019

Revision: 28.02.2019

**Trade name: GIEMSA STAIN, Certified DeGe-19**

(Contd. of page 8)

- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I Substance is not listed.**
- **Seveso category H2 ACUTE TOXIC**
- **Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t**
- **Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t**
- **Chemical safety assessment: A Chemical Safety Assessment has not been carried out.**

### 16 Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

· **Abbreviations and acronyms:**

*ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)*

*IMDG: International Maritime Code for Dangerous Goods*

*IATA: International Air Transport Association*

*EINECS: European Inventory of Existing Commercial Chemical Substances*

*CAS: Chemical Abstracts Service (division of the American Chemical Society)*

*VOC: Volatile Organic Compounds (USA, EU)*

*PBT: Persistent, Bioaccumulative and Toxic*

*vPvB: very Persistent and very Bioaccumulative*

*Acute Tox. 2: Acute toxicity – Category 2*

*Acute Tox. 3: Acute toxicity – Category 3*

*Skin Irrit. 2: Skin corrosion/irritation – Category 2*

*Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A*

*Muta. 1A: Germ cell mutagenicity – Category 1A*

*Repr. 2: Reproductive toxicity – Category 2*

AU

# Safety Data Sheet

acc. to OSHA HCS

Printing date 02/28/2019

Reviewed on 02/28/2019

## 1 Identification

- **Product identifier**
- **Trade name:** GIEMSA STAIN, Certified DcGe-19
- **Article number:** 15942
- **CAS Number:**  
51811-82-6
- **EC number:**  
257-438-2
- **Application of the substance / the mixture** Laboratory chemicals
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: sgkcck@aol.com  
www.emsdiasum.com
- **Information department:** Product safety department
- **Emergency telephone number:**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

## 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS06 Skull and crossbones

Acute Toxicity (Oral) - Category 2      H300 Fatal if swallowed.

Acute Toxicity (Dermal) – Category 3      H311 Toxic in contact with skin.

Acute Toxicity (Inhalation) - Category 2      H330 Fatal if inhaled.



GHS08 Health hazard

Germ Cell Mutagenicity - Category 1A      H340 May cause genetic defects.

Reproductive Toxicity - Category 2      H361 Suspected of damaging fertility or the unborn child.



GHS07

Skin Irritation - Category 2      H315 Causes skin irritation.

Eye Irritation - Category 2A      H319 Causes serious eye irritation.

- **Label elements**

- **GHS label elements** The substance is classified and labeled according to the Globally Harmonized System (GHS).

(Contd. on page 2)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 02/28/2019

Reviewed on 02/28/2019

Trade name: **GIEMSA STAIN, Certified DeGe-19**

(Contd. of page 1)

· **Hazard pictograms**

GHS06   GHS07   GHS08

· **Signal word** *Danger*· **Hazard-determining components of labeling:***Giesma stain*· **Hazard statements***Fatal if swallowed or if inhaled.**Toxic in contact with skin.**Causes skin irritation.**Causes serious eye irritation.**May cause genetic defects.**Suspected of damaging fertility or the unborn child.*· **Precautionary statements***Obtain special instructions before use.**Do not handle until all safety precautions have been read and understood.**Do not breathe dust/fume/gas/mist/vapours/spray.**Wash thoroughly after handling.**Do not eat, drink or smoke when using this product.**Use only outdoors or in a well-ventilated area.**Wear protective gloves/protective clothing/eye protection/face protection.**[In case of inadequate ventilation] wear respiratory protection.**If swallowed: Immediately call a poison center/doctor.**Rinse mouth.**If on skin: Wash with plenty of water.**IF INHALED: Remove person to fresh air and keep comfortable for breathing.**IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.**Continue rinsing.**IF exposed or concerned: Get medical advice/attention.**Call a poison center/doctor if you feel unwell.**Specific treatment is urgent (see on this label).**Take off contaminated clothing and wash it before reuse.**If skin irritation occurs: Get medical advice/attention.**If eye irritation persists: Get medical advice/attention.**Take off immediately all contaminated clothing.**Wash contaminated clothing before reuse.**Store in a well-ventilated place. Keep container tightly closed.**Store locked up.**Dispose of contents/container in accordance with local/regional/national/international regulations.*· **Classification system:**· **NFPA ratings (scale 0 - 4)***Health = 2**Fire = 0**Reactivity = 0*· **HMIS-ratings (scale 0 - 4)***Health = 2**Fire = 0**Reactivity = 0*

CA

(Contd. on page 3)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 02/28/2019

Reviewed on 02/28/2019

**Trade name: GIEMSA STAIN, Certified DeGe-19**

(Contd. of page 2)

### 3 Composition/information on ingredients

- **Chemical characterization: Substances**
- **CAS No. Description**  
51811-82-6 Giesma stain
- **Identification number(s)**
- **EC number: 257-438-2**

### 4 First-aid measures

- **Description of first aid measures**
- **General information:**  
Immediately remove any clothing soiled by the product.  
Remove breathing apparatus only after contaminated clothing have been completely removed.  
In case of irregular breathing or respiratory arrest provide artificial respiration.
- **After inhalation:**  
Supply fresh air or oxygen; call for doctor.  
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** Do not induce vomiting; immediately call for medical help.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

CA

(Contd. on page 4)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 02/28/2019

Reviewed on 02/28/2019

Trade name: **GIEMSA STAIN, Certified DeGe-19**

(Contd. of page 3)

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Thorough dedusting.  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.
- **Information about protection against explosions and fires:** Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.  
Store protective clothing separately.  
Avoid contact with the eyes and skin.
- **Breathing equipment:**  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

(Contd. on page 5)

CA

# Safety Data Sheet

acc. to OSHA HCS

Printing date 02/28/2019

Reviewed on 02/28/2019

Trade name: **GIEMSA STAIN, Certified DeGe-19**

(Contd. of page 4)

· **Eye protection:**

Tightly sealed goggles

## 9 Physical and chemical properties

· **Information on basic physical and chemical properties**· **General Information**· **Appearance:**

· <b>Form:</b>	Crystalline powder
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· <b>Color:</b>	Dark green
-----------------	------------

· <b>Odor:</b>	Odorless
----------------	----------

· <b>Odor threshold:</b>	Not determined.
--------------------------	-----------------

· <b>pH-value:</b>	Not applicable.
--------------------	-----------------

· **Change in condition**

· <b>Melting point/Melting range:</b>	300 °C
---------------------------------------	--------

· <b>Boiling point/Boiling range:</b>	442.8 °C
---------------------------------------	----------

· <b>Flash point:</b>	221 °C
-----------------------	--------

· <b>Flammability (solid, gaseous):</b>	Product is not flammable.
---	---------------------------

	Not determined.
--	-----------------

	Not flammable.
--	----------------

· <b>Decomposition temperature:</b>	Not determined.
-------------------------------------	-----------------

· <b>Auto igniting:</b>	Not determined.
-------------------------	-----------------

· <b>Danger of explosion:</b>	Product does not present an explosion hazard.
-------------------------------	---

· **Explosion limits:**

· <b>Lower:</b>	Not determined.
-----------------	-----------------

· <b>Upper:</b>	Not determined.
-----------------	-----------------

· <b>Vapor pressure:</b>	Not applicable.
--------------------------	-----------------

· <b>Density at 20 °C:</b>	0.99 g/cm <sup>3</sup>
----------------------------	------------------------

· <b>Relative density</b>	Not determined.
---------------------------	-----------------

· <b>Vapor density</b>	Not applicable.
------------------------	-----------------

· <b>Evaporation rate</b>	Not applicable.
---------------------------	-----------------

· **Solubility in / Miscibility with**

· <b>Water:</b>	Insoluble.
-----------------	------------

· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
---	-----------------

· **Viscosity:**

· <b>Dynamic:</b>	Not applicable.
-------------------	-----------------

· <b>Kinematic:</b>	Not applicable.
---------------------	-----------------

· <b>Solids content:</b>	100.0 %
--------------------------	---------

· <b>Other information</b>	No further relevant information available.
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CA

(Contd. on page 6)



# Safety Data Sheet

acc. to OSHA HCS

Printing date 02/28/2019

Reviewed on 02/28/2019

Trade name: **GIEMSA STAIN, Certified DeGe-19**

(Contd. of page 5)

## 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

Substance is not listed.

- **NTP (National Toxicology Program)**

Substance is not listed.

## 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
- Water hazard class 3 (Self-assessment): extremely hazardous for water
- Do not allow product to reach ground water, water course or sewage system, even in small quantities.
- Danger to drinking water if even extremely small quantities leak into the ground.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
- Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

(Contd. on page 7)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 02/28/2019



Reviewed on 02/28/2019

Trade name: **GIEMSA STAIN, Certified DeGe-19**

(Contd. of page 6)

- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

<ul style="list-style-type: none"> <li>· <b>UN-Number</b></li> <li>· <b>DOT, TDG, IMDG, IATA</b></li> </ul>	UN3243
<ul style="list-style-type: none"> <li>· <b>UN proper shipping name</b></li> <li>· <b>DOT</b></li> <li>· <b>TDG</b></li> <li>· <b>IMDG, IATA</b></li> </ul>	Solids containing toxic liquid, n.o.s. 3243 SOLIDS CONTAINING TOXIC LIQUID, N.O.S. SOLIDS CONTAINING TOXIC LIQUID, N.O.S.
<ul style="list-style-type: none"> <li>· <b>Transport hazard class(es)</b></li> <li>· <b>DOT</b></li> </ul>	
<ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> <li>· <b>TDG, IMDG, IATA</b></li> </ul>	6.1 Toxic substances 6.1
<ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>	
<ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>	6.1 Toxic substances 6.1
<ul style="list-style-type: none"> <li>· <b>Packing group</b></li> <li>· <b>DOT, TDG, IMDG, IATA</b></li> </ul>	II
<ul style="list-style-type: none"> <li>· <b>Environmental hazards:</b></li> </ul>	Not applicable.
<ul style="list-style-type: none"> <li>· <b>Special precautions for user</b></li> <li>· <b>Danger code (Kemler):</b></li> <li>· <b>EMS Number:</b></li> <li>· <b>Stowage Category</b></li> <li>· <b>Stowage Code</b></li> </ul>	Warning: Toxic substances 60 F-A,S-A B SW2 Clear of living quarters.
<ul style="list-style-type: none"> <li>· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b></li> </ul>	Not applicable.
<ul style="list-style-type: none"> <li>· <b>Transport/Additional information:</b></li> <li>· <b>DOT</b></li> <li>· <b>Quantity limitations</b></li> </ul>	On passenger aircraft/rail: 25 kg On cargo aircraft only: 100 kg
<ul style="list-style-type: none"> <li>· <b>TDG</b></li> <li>· <b>Excepted quantities (EQ)</b></li> </ul>	Code: E4 Maximum net quantity per inner packaging: 1 g Maximum net quantity per outer packaging: 500 g

(Contd. on page 8)

CA

# Safety Data Sheet

acc. to OSHA HCS

Printing date 02/28/2019

Reviewed on 02/28/2019

Trade name: **GIEMSA STAIN, Certified DeGe-19**

(Contd. of page 7)

- |                                   |   |
|-----------------------------------|---|
| <b>· IMDG</b>                     |   |
| · <b>Limited quantities (LQ)</b>  | 500 g   |
| · <b>Excepted quantities (EQ)</b> | Code: E4  |
|                                   | Maximum net quantity per inner packaging: 1 g           |
|                                   | Maximum net quantity per outer packaging: 500 g         |
| · <b>UN "Model Regulation":</b>   | UN 3243 SOLIDS CONTAINING TOXIC LIQUID, N.O.S., 6.1, II |

## 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**

· <b>Section 355 (extremely hazardous substances):</b>
--

Substance is not listed.
--------------------------

· <b>Section 313 (Specific toxic chemical listings):</b>
--

Substance is not listed.
--------------------------

· <b>TSCA (Toxic Substances Control Act):</b>
---

Substance is listed.
----------------------

· <b>Canadian substance listings:</b>
---------------------------------------

· <b>Canadian Domestic Substances List (DSL)</b>
--

Substance is listed.
----------------------

· <b>Canadian Ingredient Disclosure list (limit 0.1%)</b>
---

Substance is not listed.
--------------------------

· <b>Canadian Ingredient Disclosure list (limit 1%)</b>
---

Substance is not listed.
--------------------------

- **GHS label elements** The substance is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS06    GHS07    GHS08

- **Signal word** *Danger*

- **Hazard-determining components of labeling:**

*Giesma stain*

- **Hazard statements**

*Fatal if swallowed or if inhaled.*  
*Toxic in contact with skin.*  
*Causes skin irritation.*  
*Causes serious eye irritation.*  
*May cause genetic defects.*  
*Suspected of damaging fertility or the unborn child.*

- **Precautionary statements**

*Obtain special instructions before use.*  
*Do not handle until all safety precautions have been read and understood.*  
*Do not breathe dust/fume/gas/mist/vapours/spray.*  
*Wash thoroughly after handling.*

(Contd. on page 9)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 02/28/2019

Reviewed on 02/28/2019

**Trade name: GIEMSA STAIN, Certified DcGe-19**

(Contd. of page 8)

*Do not eat, drink or smoke when using this product.*

*Use only outdoors or in a well-ventilated area.*

*Wear protective gloves/protective clothing/eye protection/face protection.*

*[In case of inadequate ventilation] wear respiratory protection.*

*If swallowed: Immediately call a poison center/doctor.*

*Rinse mouth.*

*If on skin: Wash with plenty of water.*

*IF INHALED: Remove person to fresh air and keep comfortable for breathing.*

*IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.*

*Continue rinsing.*

*IF exposed or concerned: Get medical advice/attention.*

*Call a poison center/doctor if you feel unwell.*

*Specific treatment is urgent (see on this label).*

*Take off contaminated clothing and wash it before reuse.*

*If skin irritation occurs: Get medical advice/attention.*

*If eye irritation persists: Get medical advice/attention.*

*Take off immediately all contaminated clothing.*

*Wash contaminated clothing before reuse.*

*Store in a well-ventilated place. Keep container tightly closed.*

*Store locked up.*

*Dispose of contents/container in accordance with local/regional/national/international regulations.*

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16 Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

· **Date of the latest revision of the safety data sheet** 02/28/2019 / -

· **Abbreviations and acronyms:**

*IMDG: International Maritime Code for Dangerous Goods*

*DOT: US Department of Transportation*

*IATA: International Air Transport Association*

*EINECS: European Inventory of Existing Commercial Chemical Substances*

*CAS: Chemical Abstracts Service (division of the American Chemical Society)*

*NFPA: National Fire Protection Association (USA)*

*HMIS: Hazardous Materials Identification System (USA)*

*PBT: Persistent, Bioaccumulative and Toxic*

*vPvB: very Persistent and very Bioaccumulative*

# 化学品安全技术说明书

根据 GB/T 16483-2008, GB/T 17519-2013

打印日期 2019.02.28

在 2019.02.28 审核

## 1 化学品及企业标识

- **产品识别者**
- **化学品中文(英文)名称, 化学品俗名或商品名:** GIEMSA STAIN, Certified DcGe-19
- **商品编号:** 15942
- **CAS 编号:**  
51811-82-6
- **欧盟编号:**  
257-438-2
- **相应纯物质或者混合物的相关下位用途及禁止用途** 无相关详细资料。
- **原材料的应用/准备工作进行** 实验室化学物
- **安全技术说明书内供应商详细信息**
- **企业名称:**  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: sgkcck@aol.com  
www.emsdiasum.com
- **可获取更多资料的部门:** Product safety department
- **紧急联系电话号码:**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

## 2 危险性概述

### · 紧急情况概述:

深绿色, 晶体状粉末, 吞咽或吸入致命。皮肤接触会中毒。造成皮肤刺激。造成严重眼刺激。可能导致遗传性缺陷。怀疑对生育能力或胎儿造成伤害。

### · GHS危险性类别



骷髅和交叉骨

急性毒性(经口) 第2类	H300 吞咽致命
急性毒性(经皮肤) 第3类	H311 皮肤接触会中毒
急性毒性(吸入) 第2类	H330 吸入致命



健康危害

生殖细胞致突变性 第1A类	H340 可能导致遗传性缺陷
生殖毒性 第2类	H361 怀疑对生育能力或胎儿造成伤害



皮肤腐蚀/刺激 第2类	H315 造成皮肤刺激
严重眼损伤/眼刺激 类别2A	H319 造成严重眼刺激

### · 标签因素

- **GHS卷标元素** 本化学物质根据化学物质分类及标记全球协调制度(GHS)进行了分类及标记。

(在 2 页继续)

# 化学品安全技术说明书

根据 GB/T 16483-2008, GB/T 17519-2013

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在 2019.02.28 审核

化学品中文(英文)名称, 化学品俗名或商品名 : GIEMSA STAIN, Certified DcGe-19

(在 1 页继续)

## · 图示



GHS06 GHS08

## · 名称 危险

## · 标签上辨别危险的成份:

姬姆氏色素

## · 危险字句

吞咽或吸入致命

皮肤接触会中毒

造成皮肤刺激

造成严重眼刺激

可能导致遗传性缺陷

怀疑对生育能力或胎儿造成伤害

## · 警戒字句

## · 事故响应

如误吞咽:立即呼叫急救中心/医生

漱口

如进入眼睛:用水小心冲洗几分钟。如戴隐形眼镜并可方便地取出,取出隐形眼镜。继续冲洗  
紧急具体治疗(见本标签上的)

立即脱掉所有沾染的衣服,清洗后方可重新使用

## · 安全储存

存放处须加锁

## · 废弃处置

处置内装物/容器按照地方/区域/国家/国际规章

## · 其他有害性

· PBT(残留性、生物浓缩性、毒性物质) 及 vPvB(高残留性、高生物浓缩性物质)评价结果

· PBT(残留性、生物浓缩性、毒性物质) 不适用的

· vPvB(高残留性、高生物浓缩性物质): 不适用的

### 3 成分/组成信息

## · 纯品

## · CAS号 化学名, 通用名

51811-82-6 姬姆氏色素

## · 鉴别编号:

· 欧盟编号: 257-438-2

### 4 急救措施

## · 应急措施要领

## · 总说明:

马上脱下染有该产品的衣服。

只在彻底地脱去了已被污染的衣服之后才能移走呼吸仪器。

万一出现了不规则的呼吸或呼吸的阻碍,请为病人提供人工呼吸。

## · 吸入:

供给新鲜空气或氧气;叫医生。

万一病人不清醒时,请让病人侧躺以便移动。

· 皮肤接触: 马上用水和肥皂进行彻底的冲洗。

(在 3 页继续)

# 化学品安全技术说明书

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打印日期 2019.02.28

在 2019.02.28 审核

**化学品中文(英文)名称, 化学品俗名或商品名 : GIEMSA STAIN, Certified DcGe-19**

(在 2 页继续)

- **眼睛接触:** 张开眼睛在流水下冲洗数分钟. 如果症状仍然持续, 请咨询医生.
- **食入:** 切勿引发呕吐; 请马上寻求医疗的协助.
- **给医生的资料:**
- **最重要的急慢性症状及其影响** 无相关详细资料.
- **需要及时的医疗处理及特别处理的症状** 无相关详细资料.

## 5 消防措施

- **灭火方法**
- **灭火的方法和灭火剂:** 使用适合四周环境的灭火措施.
- **特别危险性** 无相关详细资料.
- **特殊灭火方法**
- **消防人员特殊的防护装备:** 口腔呼吸保护装置.

## 6 泄漏应急处理

- **保护措施** 没有要求.
- **环境保护措施:** 切勿让其进入下水道/水面或地下水.
- **密封及净化方法和材料:**  
根据第 13 条条款弃置受污染物.  
确保有足够的通风装置.
- **参照其他部分**  
有关安全处理的资料请参阅第 7 节.  
有关个人防护装备的资料请参阅第 8 节.  
有关弃置的资料请参阅第 13 节.

## 7 操作处置与储存

- **操作处置**
- **储存**  
彻底除尘.  
确保工作间有良好的通风/排气装置.  
小心打开及处理贮藏器.
- **有关火灾及防止爆炸的资料:** 提供呼吸保护装置.
- **混合危险性等安全储存条件**
- **储存:**  
· **储存库和容器须要达到的要求:** 没有特别的要求.  
· **有关使用一个普通的储存设施来储存的资料:** 不需要.  
· **有关储存条件的更多资料:** 将容器密封.  
· **具体的最终用户** 无相关详细资料.

## 8 接触控制和个体防护

- **工程控制方法:** 没有进一步数据; 见第 7 项.
- **控制变数**
- **在工作场需要监控的限值成分** 不要求.
- **额外的资料:** 制作期间有效的清单将作为基础来使用.

(在 4 页继续)

# 化学品安全技术说明书

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(在 3 页继续)

### · 泄漏控制

### · 个人防护设备:

#### · 一般保护和卫生措施:

远离食品、饮料和饲料。

立即除去所有的不洁的和被污染的衣服。

在休息之前和工作完毕后请清洗双手。

分开储存保护性衣服。

避免和眼睛及皮肤接触。

### · 呼吸系统防护:

如果曾短暂接触或在低污染的情况下, 请使用呼吸过滤装置。如果曾深入或较长时间接触, 请使用独立的呼吸保护装置。

### · 手防护:



保护手套

手套的物料必须是不渗透性的, 且能抵抗该产品/物质/添加剂。

基于缺乏测试, 对于产品/制剂/化学混合物, 并不会提供手套材料的建议

选择手套材料时, 请注意材料的渗透时间, 渗透率和降解参数

· **手套材料** 选择合适的手套不单取决于材料, 亦取决于质量特征, 以及来自哪一间生产厂家

· **渗入手套材料的时间** 请向劳保手套生产厂家获取准确的破裂时间并观察实际的破裂时间

### · 眼睛防护:



密封的护目镜

## 9 理化特性

### · 有关基本物理及化学特性的信息

#### · 一般说明

#### · 外观:

· **形状:** 晶体状粉末

· **颜色:** 深绿色

· **气味:** 无气味的

· **嗅觉阈限** 未决定。

· **pH值:** 不适用的

#### · 条件的更改

· **熔点:** 300 °C

· **沸点/初沸点和沸程:** 442.8 °C

· **闪点:** 221 °C

· **可燃性 (固体、气体):** 该产品是不可燃的  
未决定。  
不适用的

· **分解温度:** 未决定。

· **自燃温度:** 未决定。

· **爆炸的危险性:** 该产品并没有爆炸的危险

(在 5 页继续)



# 化学品安全技术说明书

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(在 4 页继续)

- |                      |                        |
|----------------------|------------------------|
| · <b>爆炸极限:</b>       |                        |
| · 较低:                | 未决定.                   |
| · 较高:                | 未决定.                   |
| · <b>蒸气压:</b>        | 不适用的                   |
| · <b>密度在 20 °C:</b>  | 0.99 g/cm <sup>3</sup> |
| · <b>相对密度</b>        | 未决定.                   |
| · <b>蒸气密度</b>        | 不适用的                   |
| · <b>蒸发速率</b>        | 不适用的                   |
| · <b>溶解性</b>         |                        |
| · 水:                 | 不能溶解的                  |
| · <b>n-辛醇/水分配系数:</b> | 未决定.                   |
| · <b>黏性:</b>         |                        |
| · 动态:                | 不适用的                   |
| · 运动学的:              | 不适用的                   |
| · <b>固体成份:</b>       | 100.0 %                |
| · <b>其他信息</b>        | 无相关详细资料。               |

## 10 稳定性和反应性

- **反应性** 无相关详细资料。
- **稳定性**
- **热分解/要避免的情况:** 如果遵照规格使用则不会分解。
- **有害反应可能性** 未有已知的危险反应。
- **应避免的条件** 无相关详细资料。
- **不相容的物质:** 无相关详细资料。
- **危险的分解产物:** 未知有危险的分解产品。

## 11 毒理学信息

- **对毒性学影响的信息**
- **急性毒性:**
- **主要的刺激性影响:**
- **皮肤:** 刺激皮肤和粘膜。
- **在眼睛上面:** 刺激的影响。
- **致敏作用:** 没有已知的敏化影响。
- **对以下组别可能产生影响的数据:**
- **CMR作用 (致癌、导致基因突变、对生殖系统有害)**  
生殖细胞致突变性 第1A类, 生殖毒性 第2类

## 12 生态学信息

- **生态毒性**
- **水生毒性:** 无相关详细资料。
- **持久性和降解性** 无相关详细资料。
- **环境系统习性:**
- **潜在的生物累积性** 无相关详细资料。
- **土壤内移动性** 无相关详细资料。

(在 6 页继续)

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(在 5 页继续)

- 额外的生态学资料:
- 总括注解:
  - 水危害级别 3 (德国规例) (通过名单进行自我评估): 对水是极其危害的即使是少量., 不要让该产品接触地下水、水道或污水系统. 即使是极其少量的产品渗入地下也会对饮用水造成危险.
- PBT(残留性、生物浓缩性、毒性物质) 及 vPvB(高残留性、高生物浓缩性物质)评价结果
- PBT(残留性、生物浓缩性、毒性物质) 不适用的
- vPvB(高残留性、高生物浓缩性物质): 不适用的
- 其他副作用 无相关详细资料。

### 13 废弃处置

- 废弃处置方法
  - 建议: 不能将该产品和家居垃圾一起丢弃. 不要让该产品接触污水系统.
- 受污染的容器和包装:
  - 建议: 必须根据官方的规章来丢弃.

### 14 运输信息

· 联合国危险货物编号(UN号)	
· ADR, IMDG, IATA	UN3243
· UN适当装船名	
· ADR	3243 含毒性液体的固体, 未另作规定的
· IMDG, IATA	SOLIDS CONTAINING TOXIC LIQUID, N.O.S.
· 运输危险等级	
· ADR, IMDG, IATA	
	
· 级别	6.1 毒性物质
· 标签	6.1
· 包装组别	
· ADR, IMDG, IATA	II
· 危害环境:	不适用的
· 用户特别预防措施	警告: 毒性物质
· 危险编码:	60
· EMS 号码:	F-A,S-A
· Stowage Category	B
· Stowage Code	SW2 Clear of living quarters.
· MARPOL73/78(针对船舶引起的海洋污染预防协约)附件书2及根据IBC Code(国际装船货物编码)的大量运送	不适用的

(在 7 页继续)

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(在 6 页继续)

## · 运输/额外的资料:

## · ADR

· Excepted quantities (EQ)

Code: E4

Maximum net quantity per inner packaging: 1 g

Maximum net quantity per outer packaging: 500 g

## · IMDG

· Limited quantities (LQ)

500 g

· Excepted quantities (EQ)

Code: E4

Maximum net quantity per inner packaging: 1 g

Maximum net quantity per outer packaging: 500 g

## · UN "标准规定":

UN 3243 含毒性液体的固体, 未另作规定的, 6.1, II

## 15 法规信息

· 对相应纯物质或者混合物的安全、保健及环境法规/法律

· 危险化学品安全管理条例

· 危险化学品目录

没有列出物质.

· 新化学物质环境管理办法

· 中国现有化学物质名录

有列出物质.

· GHS卷标元素 本化学物质根据化学物质分类及标记全球协调制度(GHS)进行了分类及标记。

· 图示



GHS06 GHS08

· 名称 危险

· 标签上辨别危险的成份:

姬姆氏色素

· 危险字句

吞咽或吸入致命

皮肤接触会中毒

造成皮肤刺激

造成严重眼刺激

可能导致遗传性缺陷

怀疑对生育能力或胎儿造成伤害

· 警戒字句

· 事故响应

如误吞咽:立即呼叫急救中心/医生

漱口

如进入眼睛:用水小心冲洗几分钟。如戴隐形眼镜并可方便地取出,取出隐形眼镜。继续冲洗

紧急具体治疗(见本标签上的)

立即脱掉所有沾染的衣服,清洗后方可重新使用

· 安全储存

存放处须加锁

(在 8 页继续)

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(在 7 页继续)

- **废弃处置**  
处置内装物/容器按照地方/区域/国家/国际规章
- **化学物质安全性评价:** 尚未进行化学物质安全性评价

## 16 其他信息

该资料是基于我们目前的知识。然而,这并不构成对任何特定产品特性的担保并且不建立一个法律上有效的合同关系。

### · 缩写:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: 持久性生物累积性有毒物质

vPvB: very Persistent and very Bioaccumulative

急性毒性(经口) 第2类: Acute toxicity – Category 2

急性毒性(经皮肤) 第3类: Acute toxicity – Category 3

皮肤腐蚀/刺激 第2类: Skin corrosion/irritation – Category 2

严重眼损伤/眼刺激 类别2A: Serious eye damage/eye irritation – Category 2A

生殖细胞致突变性 第1A类: Germ cell mutagenicity – Category 1A

生殖毒性 第2类: Reproductive toxicity – Category 2

CN

# Veiligheidsinformatieblad

volgens 1907/2006/EG, Artikel 31

datum van de druk: 28.02.2019

Herziening van: 28.02.2019

## RUBRIEK 1: Identificatie van de stof of het mengsel en van de vennootschap/onderneming

### · 1.1 Productidentificatie

· **Handelsnaam:** GIEMSA STAIN, Certified DcGe-19

· **Artikelnummer:** 15942

· **CAS-nummer:**

51811-82-6

· **EC-nummer:**

257-438-2

· **1.2 Relevant geïdentificeerd gebruik van de stof of het mengsel en ontraden gebruik**

Geen verdere relevante informatie verkrijgbaar.

· **Toepassing van de stof / van de bereiding** Laboratoriumchemicaliën

· **1.3 Details betreffende de verstrekker van het veiligheidsinformatieblad**

· **Fabrikant/leverancier:**

Electron Microscopy Sciences

1560 Industry Road

USA-Hatfield, PA 19440

Tel: 215-412-8400 Fax: 215-412-8450

email: sgkcck@aol.com

www.emsdiasum.com

Aurion

Binnenhaven 5

6709 PD Wageningen

The Netherlands

Tel: 31 317 415094

Fax: 31 317 415955

email: info@aurion.nl

· **Inlichtingengevende sector:** Product safety department

· **1.4 Telefoonnummer voor noodgevallen:**

ChemTrec 1-800-424-9300 Contract CCN7661

1-703-527-3887

## RUBRIEK 2: Identificatie van de gevaren

· **2.1 Indeling van de stof of het mengsel**

· **Indeling overeenkomstig Verordening (EG) nr. 1272/2008**



GHS06 doodshoofd met gekruiste beenderen

Acute Tox. 3 H301 Giftig bij inslikken.

Acute Tox. 2 H330 Dodelijk bij inademing.



GHS08 gezondheidsgevaar

Muta. 1A H340 Kan genetische schade veroorzaken.

Repr. 2 H361 Kan mogelijks de vruchtbaarheid of het ongeboren kind schaden.



GHS07

Acute Tox. 4 H312 Schadelijk bij contact met de huid.

(Vervolg op blz. 2)

# Veiligheidsinformatieblad

## volgens 1907/2006/EG, Artikel 31

datum van de druk: 28.02.2019

Herziening van: 28.02.2019

**Handelsnaam: GIEMSA STAIN, Certified DcGe-19**

(Vervolg van blz. 1)

*Skin Irrit. 2 H315* Veroorzaakt huidirritatie.

*Eye Irrit. 2 H319* Veroorzaakt ernstige oogirritatie.

### · 2.2 Etiketteringselementen

#### · Etikettering overeenkomstig Verordening (EG) nr. 1272/2008

De stof/product is geclassificeerd en geëtiketteerd volgens de CLP-verordening.

#### · Gevarenpictogrammen



GHS06 GHS08

#### · Signaalwoord Gevaar

#### · Gevaaraanduidende componenten voor de etikettering:

Giesma stain

#### · Gevarenaanduidingen

H301 Giftig bij inslikken.

H312 Schadelijk bij contact met de huid.

H330 Dodelijk bij inademing.

H315 Veroorzaakt huidirritatie.

H319 Veroorzaakt ernstige oogirritatie.

H340 Kan genetische schade veroorzaken.

H361 Kan mogelijks de vruchtbaarheid of het ongeboren kind schaden.

#### · Veiligheidsaanbevelingen

P301+P310 NA INSLIKKEN: onmiddellijk een ANTIGIFCENTRUM/arts raadplegen.

P330 De mond spoelen.

P305+P351+P338 BIJ CONTACT MET DE OGEN: voorzichtig afspoelen met water gedurende een aantal minuten; contactlenzen verwijderen, indien mogelijk; blijven spoelen.

P320 Specifieke behandeling dringend vereist (zie op dit etiket).

P362+P364 Verontreinigde kleding uittrekken en wassen alvorens deze opnieuw te gebruiken.

P405 Achter slot bewaren.

P501 De inhoud en de verpakking verwerken volgens de plaatselijke/regionale/nationale/internationale voorschriften.

#### · 2.3 Andere gevaren

#### · Resultaten van PBT- en zPzB-beoordeling

· PBT: Niet bruikbaar.

· zPzB: Niet bruikbaar.

## RUBRIEK 3: Samenstelling en informatie over de bestanddelen

### · 3.1 Chemische karakterisering: Stoffen

#### · CAS-Nr. omschrijving

51811-82-6 Giesma stain

#### · Identificatienummer(s)

· EC-nummer: 257-438-2

## RUBRIEK 4: Eerstehulpmaatregelen

### · 4.1 Beschrijving van de eerstehulpmaatregelen

#### · Algemene informatie:

Verontreinigde kleding onmiddellijk uittrekken.

(Vervolg op blz. 3)

# Veiligheidsinformatieblad

## volgens 1907/2006/EG, Artikel 31

datum van de druk: 28.02.2019

Herziening van: 28.02.2019

**Handelsnaam: GIEMSA STAIN, Certified DcGe-19**

(Vervolg van blz. 2)

- Ademhalingstoestel pas afnemen nadat de verontreinigde kleding verwijderd is.  
 Bij onregelmatige ademhaling of ademstilstand kunstmatige ademhaling toepassen.
- **Na het inademen:**  
 Verse lucht of zuurstof toedienen; deskundige medische hulp invoeren.  
 Bij bewusteloosheid ligging en vervoer in stabiele zijligging.
  - **Na huidcontact:** Onmiddellijk met water en zeep afwassen en goed naspoelen.
  - **Na oogcontact:**  
 De ogen gedurende verscheidene minuten onder stromend water afspoelen terwijl de oogspleet geopend blijft. Bij aanhoudende klachten een dokter raadplegen.
  - **Na inslikken:** Geen braken teweegbrengen en onmiddellijk medische hulp raadplegen.
  - **4.2 Belangrijkste acute en uitgestelde symptomen en effecten** Geen verdere relevante informatie verkrijgbaar.
  - **4.3 Vermelding van de vereiste onmiddellijke medische verzorging en speciale behandeling**  
 Geen verdere relevante informatie verkrijgbaar.

### RUBRIEK 5: Brandbestrijdingsmaatregelen

- **5.1 Blusmiddelen**
- **Geschikte blusmiddelen:** Brandblusmaatregelen op omgeving afstemmen.
- **5.2 Speciale gevaren die door de stof of het mengsel worden veroorzaakt**  
 Geen verdere relevante informatie verkrijgbaar.
- **5.3 Advies voor brandweertieners**
- **Speciale beschermende kleding:** Ademhalingstoestel aantrekken.

### RUBRIEK 6: Maatregelen bij het accidenteel vrijkomen van de stof of het mengsel

- **6.1 Persoonlijke voorzorgsmaatregelen, beschermde uitrusting en noodprocedures** Niet nodig.
- **6.2 Milieuvorzorgsmaatregelen:** Niet in de riolering/het oppervlaktewater/het grondwater laten terechtkomen.
- **6.3 InsluTINGS- en reinigingsmethoden en -materiaal:**  
 Besmet materiaal zoals afval volgens punt 13 verwijderen.  
 Voor voldoende ventilatie zorgen.
- **6.4 Verwijzing naar andere rubrieken**  
 Informatie inzake veilig gebruik - zie hoofdstuk 7.  
 Informatie inzake persoonlijke beschermingsuitrusting - zie hoofdstuk 8.  
 Informatie inzake berging - zie hoofdstuk 13.

### RUBRIEK 7: Hantering en opslag

- **7.1 Voorzorgsmaatregelen voor het veilig hanteren van de stof of het mengsel**  
 Goed stofvrij maken.  
 Voor goede ventilatie/afzuiging op de werkplaatsen zorgen.  
 Tanks voorzichtig openen en behandelen.
- **Informatie m.b.t. brand- en ontploffingsgevaar:** Ademhalingstoestellen gereedhouden.
- **7.2 Voorwaarden voor een veilige opslag, met inbegrip van incompatibele producten**
- **Opslag:**
- **Eisen ten opzichte van opslagruimte en tanks:** Geen bijzondere eisen.
- **Informatie m.b.t. gezamenlijke opslag:** Niet noodzakelijk.
- **Verdere inlichtingen over eisen m.b.t. de opslag:** Tanks ondoordringbaar gesloten houden.
- **7.3 Specifiek eindgebruik** Geen verdere relevante informatie verkrijgbaar.

NL

(Vervolg op blz. 4)

# Veiligheidsinformatieblad

volgens 1907/2006/EG, Artikel 31

datum van de druk: 28.02.2019

Herziening van: 28.02.2019

Handelsnaam: **GIEMSA STAIN, Certified DcGe-19**

(Vervolg van blz. 3)

## RUBRIEK 8: Maatregelen ter beheersing van blootstelling/persoonlijke bescherming

- **Aanvullende gegevens m.b.t. de inrichting van technische installaties:** Geen aanvullende gegevens. Zie 7.
- **8.1 Controleparameters**
- **Bestanddelen met grenswaarden die m.b.t. de werkruimte in acht genomen moeten worden:** Vervalt.
- **Aanvullende gegevens:** Als basis dienden lijsten die bij opstelling geldig waren.
- **8.2 Maatregelen ter beheersing van blootstelling**
- **Persoonlijke beschermingsvoorzieningen:**
- **Algemene beschermings- en gezondheidsmaatregelen:**
  - Verwijderd houden van eet- en drinkwaren.
  - Verontreinigde kleding onmiddellijk uittrekken.
  - Vóór de pauze en aan het einde van werktijd handen wassen.
  - Beschermende kleding afzonderlijk bewaren.
  - Aanraking met de ogen en de huid vermijden.
- **Ademhalingsbescherming:**
  - Bij korte of geringe belasting ademfiltertoestel; bij intensieve resp. langdurige expositie een van de omringende lucht onafhankelijk ademhalingstoestel gebruiken.
- **Handbescherming:**



Veiligheidshandschoenen

- Het handschoenmateriaal moet ondoorlatend en bestand zijn tegen het product / de stof / de bereiding.  
Op grond van falende testen kan geen aanbeveling voor handschoenmateriaal voor het product / de bereiding / het chemicaliënmengsel afgegeven worden.  
Kies handschoenmateriaal rekening houdend met de penetratietijden, de permeatiegraden en de degradatie.
- **Handschoenmateriaal**
    - De keuze van een geschikte handschoen is niet alleen afhankelijk van het materiaal, maar ook van andere kwaliteitskenmerken en verschilt van fabrikant tot fabrikant.
  - **Doordringingstijd van het handschoenmateriaal**
    - De precieze penetratietijd kunt u te weten komen bij de handschoenfabrikant; houd er rekening mee.
  - **Oogbescherming:**



Nauw aansluitende veiligheidsbril

## RUBRIEK 9: Fysische en chemische eigenschappen

- **9.1 Informatie over fysische en chemische basiseigenschappen**
- **Algemene gegevens**
- **Voorkomen:**
  - Vorm:** Kristallijn poeder
  - Kleur:** Donkergroen
- **Geur:** Reukloos
- **Geurdrempelwaarde:** Niet bepaald.
- **pH-waarde:** Niet bruikbaar.
- **Toestandsverandering**
  - Smelt-/vriespunt:** 300 °C

(Vervolg op blz. 5)



# Veiligheidsinformatieblad

## volgens 1907/2006/EG, Artikel 31

datum van de druk: 28.02.2019

Herziening van: 28.02.2019

**Handelsnaam: GIEMSA STAIN, Certified DcGe-19**

(Vervolg van blz. 4)

<b>Beginkookpunt en kooktraject:</b>	442,8 °C
· <b>Vlampunt:</b>	221 °C
· <b>Ontvlambaarheid (vast, gas):</b>	De stof is niet ontvlambaar. Niet bepaald. Niet bruikbaar.
· <b>Ontledingstemperatuur:</b>	Niet bepaald.
· <b>Zelfontbrandingstemperatuur:</b>	Niet bepaald.
· <b>Ontploffingseigenschappen:</b>	Het produkt is niet ontploffingsgevaarlijk.
· <b>Ontploffingsgrenzen:</b>	
<b>Onderste:</b>	Niet bepaald.
<b>Bovenste:</b>	Niet bepaald.
· <b>Dampspanning:</b>	Niet bruikbaar.
<b>Dichtheid bij 20 °C:</b>	0,99 g/cm <sup>3</sup>
· <b>Relatieve dichtheid</b>	Niet bepaald.
· <b>Dampdichtheid</b>	Niet bruikbaar.
· <b>Verdampingssnelheid</b>	Niet bruikbaar.
· <b>Oplosbaarheid in/mengbaarheid met Water:</b>	Niet oplosbaar.
· <b>Verdelingscoëfficiënt: n-octanol/water:</b>	Niet bepaald.
· <b>Viscositeit</b>	
<b>Dynamisch:</b>	Niet bruikbaar.
<b>Kinematisch:</b>	Niet bruikbaar.
· <b>Oplosmiddelgehalte:</b>	
<b>VOC (EG)</b>	0,00 %
<b>Gehalte aan vaste bestanddelen:</b>	100,0 %
· <b>9.2 Overige informatie</b>	Geen verdere relevante informatie verkrijgbaar.

### RUBRIEK 10: Stabiliteit en reactiviteit

- **10.1 Reactiviteit** Geen verdere relevante informatie verkrijgbaar.
- **10.2 Chemische stabiliteit**
- **Thermische afbraak / te vermijden omstandigheden:** Geen afbraak bij gebruik volgens voorschrift.
- **10.3 Mogelijke gevaarlijke reacties** Geen gevaarlijke reacties bekend.
- **10.4 Te vermijden omstandigheden** Geen verdere relevante informatie verkrijgbaar.
- **10.5 Chemisch op elkaar inwerkende materialen:** Geen verdere relevante informatie verkrijgbaar.
- **10.6 Gevaarlijke ontledingsproducten:** Geen gevaarlijke ontbindingsproducten bekend.

### RUBRIEK 11: Toxicologische informatie

- **11.1 Informatie over toxicologische effecten**
- **Acute toxiciteit**
- Giftig bij inslikken.
- Schadelijk bij contact met de huid.
- Dodelijk bij inademing.

(Vervolg op blz. 6)

# Veiligheidsinformatieblad

## volgens 1907/2006/EG, Artikel 31

datum van de druk: 28.02.2019

Herziening van: 28.02.2019

**Handelsnaam: GIEMSA STAIN, Certified DcGe-19**

(Vervolg van blz. 5)

- **Primaire aandoening:**
- **Huidcorrosie/-irritatie**  
Veroorzaakt huidirritatie.
- **Ernstig oogletsel/oogirritatie**  
Veroorzaakt ernstige oogirritatie.
- **Sensibilisatie van de luchtwegen/de huid**  
Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- **CMR-effecten (kankerverwekkendheid, mutageniteit en giftigheid voor de voortplanting)**
- **Mutageniteit in geslachtscellen**  
Kan genetische schade veroorzaken.
- **Kankerverwekkendheid** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- **Giftigheid voor de voortplanting**  
Kan mogelijk de vruchtbaarheid of het ongeboren kind schaden.
- **STOT bij eenmalige blootstelling** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- **STOT bij herhaalde blootstelling** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- **Gevaar bij inademing** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.

### RUBRIEK 12: Ecologische informatie

- **12.1 Toxiciteit**
- **Aquatische toxiciteit:** Geen verdere relevante informatie verkrijgbaar.
- **12.2 Persistentie en afbreekbaarheid** Geen verdere relevante informatie verkrijgbaar.
- **12.3 Bioaccumulatie** Geen verdere relevante informatie verkrijgbaar.
- **12.4 Mobiliteit in de bodem** Geen verdere relevante informatie verkrijgbaar.
- **Verdere ecologische informatie:**
- **Algemene informatie:**  
Waterbezwaarlijkheid (NL): Z(1) niet afbreekbare stoffen met gevaarlijke eigenschappen voor mens en milieu (carcinogeniteit/mutageniteit/ reprotoxiciteit/bioaccumulerend vermogen/ toxiciteit of persistentie)  
Gevaar voor water klasse 3 (D) (Zelfclassificatie): gevaar voor water groot  
Niet lozen in grondwater, oppervlaktewater of riolering, ook niet in kleine hoeveelheden.  
Gevaar voor drinkwater zelfs bij het uitlopen van zeer geringe hoeveelheden in de ondergrond.
- **12.5 Resultaten van PBT- en zPzB-beoordeling**
- **PBT:** Niet bruikbaar.
- **zPzB:** Niet bruikbaar.
- **12.6 Andere schadelijke effecten** Geen verdere relevante informatie verkrijgbaar.

### RUBRIEK 13: Instructies voor verwijdering

- **13.1 Afvalverwerkingsmethoden**
- **Aanbeveling:** Mag niet tesamen met huisvuil gestort worden of in de riolering terechtkomen.
- **Niet gereinigde verpakkingen:**
- **Aanbeveling:** Afvalverwijdering volgens overheidsbepalingen.

### RUBRIEK 14: Informatie met betrekking tot het vervoer

- **14.1 VN-nummer**
- **ADR, IMDG, IATA** UN3243

(Vervolg op blz. 7)

# Veiligheidsinformatieblad


volgens 1907/2006/EG, Artikel 31

datum van de druk: 28.02.2019

Herziening van: 28.02.2019

Handelsnaam: GIEMSA STAIN, Certified DcGe-19

(Vervolg van blz. 6)

<ul style="list-style-type: none"> <li>· <b>14.2 Juiste ladingnaam overeenkomstig de modelreglementen van de VN</b></li> <li>· <b>ADR</b></li> <li>· <b>IMDG, IATA</b></li> </ul>	<p>3243 VASTE STOFFEN DIE GIFTIGE VLOEISTOF BEVATTEN, N.E.G. SOLIDS CONTAINING TOXIC LIQUID, N.O.S.</p>
<ul style="list-style-type: none"> <li>· <b>14.3 Transportgevaarklasse(n)</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>	
	
<ul style="list-style-type: none"> <li>· <b>klasse</b></li> <li>· <b>Etiket</b></li> </ul>	<p>6.1 Giftige stoffen 6.1</p>
<ul style="list-style-type: none"> <li>· <b>14.4 Verpakkingsgroep:</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>	<p>II</p>
<ul style="list-style-type: none"> <li>· <b>14.5 Milieugevaren:</b></li> </ul>	<p>Niet bruikbaar.</p>
<ul style="list-style-type: none"> <li>· <b>14.6 Bijzondere voorzorgen voor de gebruiker</b></li> <li>· <b>Kemler-getal:</b></li> <li>· <b>EMS-nummer:</b></li> <li>· <b>Stowage Category</b></li> <li>· <b>Stowage Code</b></li> </ul>	<p>Waarschuwing: Giftige stoffen 60 F-A,S-A B SW2 Clear of living quarters.</p>
<ul style="list-style-type: none"> <li>· <b>14.7 Vervoer in bulk overeenkomstig bijlage II bij Marpol en de IBC-code</b></li> </ul>	<p>Niet bruikbaar.</p>
<ul style="list-style-type: none"> <li>· <b>Transport/verdere gegevens:</b></li> </ul>	
<ul style="list-style-type: none"> <li>· <b>ADR</b></li> <li>· <b>Beperkte hoeveelheden (LQ)</b></li> <li>· <b>Uitgezonderde hoeveelheden (EQ)</b></li> </ul>	<p>500 g Code: E4 Grootste netto hoeveelheid per binnenverpakking: 1 g Grootste netto hoeveelheid per buitenverpakking: 500 g</p>
<ul style="list-style-type: none"> <li>· <b>Vervoerscategorie</b></li> <li>· <b>Tunnelbeperkingscode</b></li> </ul>	<p>2 D/E</p>
<ul style="list-style-type: none"> <li>· <b>IMDG</b></li> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Excepted quantities (EQ)</b></li> </ul>	<p>500 g Code: E4 Maximum net quantity per inner packaging: 1 g Maximum net quantity per outer packaging: 500 g</p>
<ul style="list-style-type: none"> <li>· <b>VN "Model Regulation":</b></li> </ul>	<p>UN 3243 VASTE STOFFEN DIE GIFTIGE VLOEISTOF BEVATTEN, N.E.G., 6.1, II</p>

## RUBRIEK 15: Regelgeving

### · 15.1 Specifieke veiligheids-, gezondheids- en milieureglementen en -wetgeving voor de stof of het mengsel

#### · SZW-lijst van kankerverwekkende stoffen

De stof is niet aanwezig.

#### · SZW-lijst van mutagene stoffen

De stof is niet aanwezig.

(Vervolg op blz. 8)

# Veiligheidsinformatieblad

## volgens 1907/2006/EG, Artikel 31

datum van de druk: 28.02.2019

Herziening van: 28.02.2019

**Handelsnaam: GIEMSA STAIN, Certified DcGe-19**

(Vervolg van blz. 7)

**· NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Vruchtbaarheid**

De stof is niet aanwezig.

**· NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Ontwikkeling**

De stof is niet aanwezig.

**· NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Borstvoeding**

De stof is niet aanwezig.

**· Richtlijn 2012/18/EU**
**· Gevaarlijke stoffen die met naam genoemd worden - BIJLAGE I** De stof is niet aanwezig.

**· Seveso-categorie H2 ACUUT TOXISCH**
**· Drempelwaarde (ton) voor toepassing van voorschriften voor lagedrempelinrichtingen 50 t**
**· Drempelwaarde (ton) voor toepassing van voorschriften voor hogedrempelinrichtingen 200 t**
**· Nationale voorschriften:**
**· Gevaarklasse v. water:**

Waterbezwaarlijkheid (NL): Z(1) niet afbreekbare stoffen met gevaarlijke eigenschappen voor mens en milieu (carcinogeniteit/mutageniteit/ reprotoxiciteit/bioaccumulerend vermogen/ toxiciteit of persistentie)

**· 15.2 Chemischeveiligheidsbeoordeling:** Een chemische veiligheidsbeoordeling is niet uitgevoerd.

### RUBRIEK 16: Overige informatie

Deze gegevens zijn gebaseerd op de huidige stand van onze kennis. Zij beschrijven echter geen garantie van produkteigenschappen en vestigen geen contractuele rechtsbetrekking.

**· Afkortingen en acroniemen:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 3: Acute toxiciteit – Categorie 3

Acute Tox. 4: Acute toxiciteit – Categorie 4

Acute Tox. 2: Acute toxiciteit – Categorie 2

Skin Irrit. 2: Huidcorrosie/-irritatie – Categorie 2

Eye Irrit. 2: Ernstig oogletsel/oogirritatie – Categorie 2

Muta. 1A: Mutageniteit in geslachtscellen – Categorie 1A

Repr. 2: Voortplantingstoxiciteit – Categorie 2

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 28.02.2019

Revision: 28.02.2019

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name:** GIEMSA STAIN, Certified DcGe-19
- **Article number:** 15942
- **CAS Number:**  
51811-82-6
- **EC number:**  
257-438-2
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Laboratory chemicals
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: sgkcck@aol.com  
www.emsdiasum.com
- **Further information obtainable from:** Product safety department
- **1.4 Emergency telephone number:**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS06 skull and crossbones

Acute Tox. 3 H301 Toxic if swallowed.

Acute Tox. 2 H330 Fatal if inhaled.



GHS08 health hazard

Muta. 1A H340 May cause genetic defects.

Repr. 2 H361 Suspected of damaging fertility or the unborn child.



GHS07

Acute Tox. 4 H312 Harmful in contact with skin.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The substance is classified and labelled according to the CLP regulation.

(Contd. on page 2)

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 28.02.2019

Revision: 28.02.2019

Trade name: **GIEMSA STAIN, Certified DeGe-19**

(Contd. of page 1)

· **Hazard pictograms**

GHS06 GHS08

· **Signal word** *Danger*· **Hazard-determining components of labelling:***Giesma stain*· **Hazard statements***H301 Toxic if swallowed.**H312 Harmful in contact with skin.**H330 Fatal if inhaled.**H315 Causes skin irritation.**H319 Causes serious eye irritation.**H340 May cause genetic defects.**H361 Suspected of damaging fertility or the unborn child.*· **Precautionary statements***P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.**P330 Rinse mouth.**P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.**P320 Specific treatment is urgent (see on this label).**P362+P364 Take off contaminated clothing and wash it before reuse.**P405 Store locked up.**P501 Dispose of contents/container in accordance with local/regional/national/international regulations.*· **2.3 Other hazards**· **Results of PBT and vPvB assessment**· **PBT:** Not applicable.· **vPvB:** Not applicable.

## SECTION 3: Composition/information on ingredients

· **3.1 Chemical characterisation: Substances**· **CAS No. Description***51811-82-6 Giesma stain*· **Identification number(s)**· **EC number:** 257-438-2

## SECTION 4: First aid measures

· **4.1 Description of first aid measures**· **General information:***Immediately remove any clothing soiled by the product.**Remove breathing equipment only after contaminated clothing have been completely removed.**In case of irregular breathing or respiratory arrest provide artificial respiration.*· **After inhalation:***Supply fresh air or oxygen; call for doctor.**In case of unconsciousness place patient stably in side position for transportation.*· **After skin contact:** *Immediately wash with water and soap and rinse thoroughly.*

(Contd. on page 3)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 28.02.2019

Revision: 28.02.2019

**Trade name: GIEMSA STAIN, Certified DcGe-19**

(Contd. of page 2)

- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** Do not induce vomiting; call for medical help immediately.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Not required.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Thorough dedusting.  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.
- **Information about fire - and explosion protection:** Keep respiratory protective device available.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists valid during the making were used as basis.

(Contd. on page 4)

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 28.02.2019

Revision: 28.02.2019

Trade name: **GIEMSA STAIN, Certified DcGe-19**

(Contd. of page 3)

· **8.2 Exposure controls**· **Personal protective equipment:**· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes and skin.

· **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· **Protection of hands:**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**

Tightly sealed goggles

## SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**· **General Information**· **Appearance:****Form:** Crystalline powder**Colour:** Dark green· **Odour:** Odourless· **Odour threshold:** Not determined.· **pH-value:** Not applicable.· **Change in condition****Melting point/freezing point:** 300 °C**Initial boiling point and boiling range:** 442.8 °C· **Flash point:** 221 °C

(Contd. on page 5)



**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 28.02.2019

Revision: 28.02.2019

Trade name: **GIEMSA STAIN, Certified DeGe-19**

(Contd. of page 4)

· <b>Flammability (solid, gas):</b>	Product is not flammable. Not determined. Not applicable.
· <b>Decomposition temperature:</b>	Not determined.
· <b>Auto-ignition temperature:</b>	Not determined.
· <b>Explosive properties:</b>	Product does not present an explosion hazard.
· <b>Explosion limits:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
· <b>Vapour pressure:</b>	Not applicable.
· <b>Density at 20 °C:</b>	0.99 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not applicable.
· <b>Evaporation rate</b>	Not applicable.
· <b>Solubility in / Miscibility with water:</b>	Insoluble.
· <b>Partition coefficient: n-octanol/water:</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not applicable.
<b>Kinematic:</b>	Not applicable.
· <b>Solvent content:</b>	
<b>VOC (EC)</b>	0.00 %
<b>Solids content:</b>	100.0 %
· <b>9.2 Other information</b>	No further relevant information available.

### **SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### **SECTION 11: Toxicological information**

- **11.1 Information on toxicological effects**
- **Acute toxicity**
- Toxic if swallowed.
- Harmful in contact with skin.
- Fatal if inhaled.
- **Primary irritant effect:**
- **Skin corrosion/irritation**
- Causes skin irritation.

(Contd. on page 6)

GB

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 28.02.2019

Revision: 28.02.2019

Trade name: **GIEMSA STAIN, Certified DeGe-19**

(Contd. of page 5)

- **Serious eye damage/irritation**  
Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity**  
May cause genetic defects.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity**  
Suspected of damaging fertility or the unborn child.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water  
Do not allow product to reach ground water, water course or sewage system, even in small quantities.  
Danger to drinking water if even extremely small quantities leak into the ground.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

- |                                       |   |
|---------------------------------------|---|
| · <b>14.1 UN-Number</b>               |   |
| · <b>ADR, IMDG, IATA</b>              | UN3243                                      |
| · <b>14.2 UN proper shipping name</b> |   |
| · <b>ADR</b>                          | 3243 SOLIDS CONTAINING TOXIC LIQUID, N.O.S. |
| · <b>IMDG, IATA</b>                   | SOLIDS CONTAINING TOXIC LIQUID, N.O.S.      |

(Contd. on page 7)

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 28.02.2019

Revision: 28.02.2019

Trade name: **GIEMSA STAIN, Certified DeGe-19**

(Contd. of page 6)

· **14.3 Transport hazard class(es)**· **ADR, IMDG, IATA**

· **Class** 6.1 Toxic substances.  
· **Label** 6.1

· **14.4 Packing group**· **ADR, IMDG, IATA** II· **14.5 Environmental hazards:** Not applicable.· **14.6 Special precautions for user**

· **Danger code (Kemler):** Warning: Toxic substances.  
60  
· **EMS Number:** F-A,S-A  
· **Stowage Category** B  
· **Stowage Code** SW2 Clear of living quarters.

· **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable.

· **Transport/Additional information:**· **ADR**

· **Limited quantities (LQ)** 500 g  
· **Excepted quantities (EQ)** Code: E4  
Maximum net quantity per inner packaging: 1 g  
Maximum net quantity per outer packaging: 500 g  
· **Transport category** 2  
· **Tunnel restriction code** D/E

· **IMDG**

· **Limited quantities (LQ)** 500 g  
· **Excepted quantities (EQ)** Code: E4  
Maximum net quantity per inner packaging: 1 g  
Maximum net quantity per outer packaging: 500 g

· **UN "Model Regulation":**

UN 3243 SOLIDS CONTAINING TOXIC LIQUID, N.O.S., 6.1, II

### SECTION 15: Regulatory information

· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

- Directive 2012/18/EU
- Named dangerous substances - ANNEX I Substance is not listed.
- Seveso category H2 ACUTE TOXIC
- Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

GB

(Contd. on page 8)

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 28.02.2019

Revision: 28.02.2019

**Trade name: GIEMSA STAIN, Certified DeGe-19**

(Contd. of page 7)

**SECTION 16: Other information**

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

**· Abbreviations and acronyms:**

*ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)*

*IMDG: International Maritime Code for Dangerous Goods*

*IATA: International Air Transport Association*

*GHS: Globally Harmonised System of Classification and Labelling of Chemicals*

*EINECS: European Inventory of Existing Commercial Chemical Substances*

*CAS: Chemical Abstracts Service (division of the American Chemical Society)*

*VOC: Volatile Organic Compounds (USA, EU)*

*PBT: Persistent, Bioaccumulative and Toxic*

*vPvB: very Persistent and very Bioaccumulative*

*Acute Tox. 3: Acute toxicity – Category 3*

*Acute Tox. 4: Acute toxicity – Category 4*

*Acute Tox. 2: Acute toxicity – Category 2*

*Skin Irrit. 2: Skin corrosion/irritation – Category 2*

*Eye Irrit. 2: Serious eye damage/eye irritation – Category 2*

*Muta. 1A: Germ cell mutagenicity – Category 1A*

*Repr. 2: Reproductive toxicity – Category 2*

GB

# Fiche de données de sécurité

## selon 1907/2006/CE, Article 31

Date d'impression : 28.02.2019

Révision: 28.02.2019

### RUBRIQUE 1: Identification de la substance/du mélange et de la société/l'entreprise

· **1.1 Identificateur de produit**

· **Nom du produit:** GIEMSA STAIN, Certified DcGe-19

· **Code du produit:** 15942

· **No CAS:**  
51811-82-6

· **Numéro CE:**  
257-438-2

· **1.2 Utilisations identifiées pertinentes de la substance ou du mélange et utilisations déconseillées**  
*Pas d'autres informations importantes disponibles.*

· **Emploi de la substance / de la préparation** Produits chimiques pour laboratoires

· **1.3 Renseignements concernant le fournisseur de la fiche de données de sécurité**

· **Producteur/fournisseur:**

Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: sgkcck@aol.com  
www.emsdiasum.com

· **Service chargé des renseignements:** Product safety department

· **1.4 Numéro d'appel d'urgence:**

ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

### RUBRIQUE 2: Identification des dangers

· **2.1 Classification de la substance ou du mélange**

· **Classification selon le règlement (CE) n° 1272/2008**



GHS06 tête de mort sur deux tibias

Acute Tox. 3 H301 Toxique en cas d'ingestion.

Acute Tox. 2 H330 Mortel par inhalation.



GHS08 danger pour la santé

Muta. 1A H340 Peut induire des anomalies génétiques.

Repr. 2 H361 Susceptible de nuire à la fertilité ou au fœtus.



GHS07

Acute Tox. 4 H312 Nocif par contact cutané.

Skin Irrit. 2 H315 Provoque une irritation cutanée.

Eye Irrit. 2 H319 Provoque une sévère irritation des yeux.

· **2.2 Éléments d'étiquetage**

· **Étiquetage selon le règlement (CE) n° 1272/2008** La substance est classifiée et étiquetée selon le règlement CLP.  
(suite page 2)

# Fiche de données de sécurité

## selon 1907/2006/CE, Article 31

Date d'impression : 28.02.2019

Révision: 28.02.2019

**Nom du produit: GIEMSA STAIN, Certified DcGe-19**

(suite de la page 1)

· **Pictogrammes de danger**



GHS06 GHS08

· **Mention d'avertissement Danger**

· **Composants dangereux déterminants pour l'étiquetage:**

*Giesma stain*

· **Mentions de danger**

*H301 Toxique en cas d'ingestion.*

*H312 Nocif par contact cutané.*

*H330 Mortel par inhalation.*

*H315 Provoque une irritation cutanée.*

*H319 Provoque une sévère irritation des yeux.*

*H340 Peut induire des anomalies génétiques.*

*H361 Susceptible de nuire à la fertilité ou au fœtus.*

· **Conseils de prudence**

*P301+P310 EN CAS D'INGESTION: Appeler immédiatement un CENTRE ANTIPOISON/un médecin.*

*P330 Rincer la bouche.*

*P305+P351+P338 EN CAS DE CONTACT AVEC LES YEUX: rincer avec précaution à l'eau pendant plusieurs minutes. Enlever les lentilles de contact si la victime en porte et si elles peuvent être facilement enlevées. Continuer à rincer.*

*P320 Un traitement spécifique est urgent (voir sur cette étiquette).*

*P362+P364 Enlever les vêtements contaminés et les laver avant réutilisation.*

*P405 Garder sous clef.*

*P501 Éliminer le contenu/récipient conformément à la réglementation locale/régionale/nationale/internationale.*

· **2.3 Autres dangers**

· **Résultats des évaluations PBT et vPvB**

· **PBT:** Non applicable.

· **vPvB:** Non applicable.

### RUBRIQUE 3: Composition/informations sur les composants

· **3.1 Caractérisation chimique: Substances**

· **No CAS Désignation**

*51811-82-6 Giesma stain*

· **Code(s) d'identification**

· **Numéro CE:** 257-438-2

### RUBRIQUE 4: Premiers secours

· **4.1 Description des premiers secours**

· **Remarques générales:**

*Enlever immédiatement les vêtements contaminés par le produit.*

*Ne retirer la protection respiratoire qu'après avoir retiré les vêtements contaminés.*

*Respiration artificielle dans le cas d'une respiration irrégulière ou d'un arrêt respiratoire.*

· **Après inhalation:**

*Donner de l'air frais ou de l'oxygène; demander d'urgence une assistance médicale.*

*En cas d'inconscience, coucher et transporter la personne en position latérale stable.*

(suite page 3)

# Fiche de données de sécurité

## selon 1907/2006/CE, Article 31

Date d'impression : 28.02.2019

Révision: 28.02.2019

**Nom du produit: GIEMSA STAIN, Certified DcGe-19**

(suite de la page 2)

- **Après contact avec la peau:** Laver immédiatement à l'eau et au savon et bien rincer.
- **Après contact avec les yeux:**  
Rincer les yeux, pendant plusieurs minutes, sous l'eau courante en écartant bien les paupières. Si les troubles persistent, consulter un médecin.
- **Après ingestion:** Ne pas faire vomir, demander d'urgence une assistance médicale.
- **4.2 Principaux symptômes et effets, aigus et différés** Pas d'autres informations importantes disponibles.
- **4.3 Indication des éventuels soins médicaux immédiats et traitements particuliers nécessaires**  
Pas d'autres informations importantes disponibles.

### RUBRIQUE 5: Mesures de lutte contre l'incendie

- **5.1 Moyens d'extinction**
- **Moyens d'extinction:** Adapter les mesures d'extinction d'incendie à l'environnement.
- **5.2 Dangers particuliers résultant de la substance ou du mélange**  
Pas d'autres informations importantes disponibles.
- **5.3 Conseils aux pompiers**
- **Équipement spécial de sécurité:** Porter un appareil de protection respiratoire.

### RUBRIQUE 6: Mesures à prendre en cas de dispersion accidentelle

- **6.1 Précautions individuelles, équipement de protection et procédures d'urgence** Pas nécessaire.
- **6.2 Précautions pour la protection de l'environnement:**  
Ne pas rejeter dans les canalisations, dans les eaux de surface et dans les nappes d'eau souterraines.
- **6.3 Méthodes et matériel de confinement et de nettoyage:**  
Evacuer les matériaux contaminés en tant que déchets conformément au point 13.  
Assurer une aération suffisante.
- **6.4 Référence à d'autres rubriques**  
Afin d'obtenir des informations pour une manipulation sûre, consulter le chapitre 7.  
Afin d'obtenir des informations sur les équipements de protection personnels, consulter le chapitre 8.  
Afin d'obtenir des informations sur l'élimination, consulter le chapitre 13.

### RUBRIQUE 7: Manipulation et stockage

- **7.1 Précautions à prendre pour une manipulation sans danger**  
Bien dépoussiérer.  
Veiller à une bonne ventilation/aspiration du poste de travail.  
Ouvrir et manipuler les récipients avec précaution.
- **Préventions des incendies et des explosions:** Tenir des appareils de protection respiratoire prêts.
- **7.2 Conditions d'un stockage sûr, y compris d'éventuelles incompatibilités**
- **Stockage:**
- **Exigences concernant les lieux et conteneurs de stockage:** Aucune exigence particulière.
- **Indications concernant le stockage commun:** Pas nécessaire.
- **Autres indications sur les conditions de stockage:** Tenir les emballages hermétiquement fermés.
- **7.3 Utilisation(s) finale(s) particulière(s)** Pas d'autres informations importantes disponibles.

### RUBRIQUE 8: Contrôles de l'exposition/protection individuelle

- **Indications complémentaires pour l'agencement des installations techniques:**  
Sans autre indication, voir point 7.

(suite page 4)

# Fiche de données de sécurité

## selon 1907/2006/CE, Article 31

Date d'impression : 28.02.2019

Révision: 28.02.2019

**Nom du produit: GIEMSA STAIN, Certified DcGe-19**

(suite de la page 3)

- **8.1 Paramètres de contrôle**
- **Composants présentant des valeurs-seuil à surveiller par poste de travail:** Néant
- **Remarques supplémentaires:**  
Le présent document s'appuie sur les listes en vigueur au moment de son élaboration.
- **8.2 Contrôles de l'exposition**
- **Equipement de protection individuel:**
- **Mesures générales de protection et d'hygiène:**  
Tenir à l'écart des produits alimentaires, des boissons et de la nourriture pour animaux.  
Retirer immédiatement les vêtements souillés ou humectés.  
Se laver les mains avant les pauses et en fin de travail.  
Conserver à part les vêtements de protection.  
Eviter tout contact avec les yeux et avec la peau.
- **Protection respiratoire:**  
En cas d'exposition faible ou de courte durée, utiliser un filtre respiratoire; en cas d'exposition intense ou durable, utiliser un appareil de respiration indépendant de l'air ambiant.
- **Protection des mains:**



Gants de protection

- Le matériau des gants doit être imperméable et résistant au produit / à la substance / à la préparation.  
À cause du manque de tests, aucune recommandation pour un matériau de gants pour le produit / la préparation / le mélange de produits chimiques ne peut être donnée.  
Choix du matériau des gants en fonction des temps de pénétration, du taux de perméabilité et de la dégradation.
- **Matériau des gants**  
Le choix de gants appropriés ne dépend pas seulement du matériau, mais également d'autres critères de qualité qui peuvent varier d'un fabricant à l'autre.
  - **Temps de pénétration du matériau des gants**  
Le temps de pénétration exact est à déterminer par le fabricant des gants de protection et à respecter.
  - **Protection des yeux:**



Lunettes de protection hermétiques

### RUBRIQUE 9: Propriétés physiques et chimiques

- **9.1 Informations sur les propriétés physiques et chimiques essentielles**
- **Indications générales**
- **Aspect:**

<b>Forme:</b>	Poudre cristalline
<b>Couleur:</b>	Vert foncé
<b>Odeur:</b>	Inodore
<b>Seuil olfactif:</b>	Non déterminé.
- **valeur du pH:** Non applicable.
- **Changement d'état**

<b>Point de fusion/point de congélation:</b>	300 °C
<b>Point initial d'ébullition et intervalle d'ébullition:</b>	442,8 °C

(suite page 5)



**Fiche de données de sécurité**  
selon 1907/2006/CE, Article 31

Date d'impression : 28.02.2019

Révision: 28.02.2019

Nom du produit: **GIEMSA STAIN, Certified DcGe-19**

(suite de la page 4)

· <b>Point d'éclair</b>	221 °C
· <b>Inflammabilité (solide, gaz):</b>	La substance n'est pas inflammable. Non déterminé. Non applicable.
· <b>Température de décomposition:</b>	Non déterminé.
· <b>Température d'auto-inflammabilité:</b>	Non déterminé.
· <b>Propriétés explosives:</b>	Le produit n'est pas explosif.
· <b>Limites d'explosion:</b>	
<b>Inférieure:</b>	Non déterminé.
<b>Supérieure:</b>	Non déterminé.
· <b>Pression de vapeur:</b>	Non applicable.
· <b>Densité à 20 °C:</b>	0,99 g/cm <sup>3</sup>
· <b>Densité relative</b>	Non déterminé.
· <b>Densité de vapeur:</b>	Non applicable.
· <b>Taux d'évaporation:</b>	Non applicable.
· <b>Solubilité dans/miscibilité avec l'eau:</b>	Insoluble
· <b>Coefficient de partage: n-octanol/eau:</b>	Non déterminé.
· <b>Viscosité:</b>	
<b>Dynamique:</b>	Non applicable.
<b>Cinématique:</b>	Non applicable.
· <b>Teneur en solvants:</b>	
<b>VOC (CE)</b>	0,00 %
<b>Teneur en substances solides:</b>	100,0 %
· <b>9.2 Autres informations</b>	Pas d'autres informations importantes disponibles.

### RUBRIQUE 10: Stabilité et réactivité

- **10.1 Réactivité** Pas d'autres informations importantes disponibles.
- **10.2 Stabilité chimique**
- **Décomposition thermique/conditions à éviter:** Pas de décomposition en cas d'usage conforme.
- **10.3 Possibilité de réactions dangereuses** Aucune réaction dangereuse connue.
- **10.4 Conditions à éviter** Pas d'autres informations importantes disponibles.
- **10.5 Matières incompatibles:** Pas d'autres informations importantes disponibles.
- **10.6 Produits de décomposition dangereux:** Pas de produits de décomposition dangereux connus

### RUBRIQUE 11: Informations toxicologiques

- **11.1 Informations sur les effets toxicologiques**
- **Toxicité aiguë**  
Toxique en cas d'ingestion.  
Nocif par contact cutané.  
Mortel par inhalation.

(suite page 6)

# Fiche de données de sécurité

## selon 1907/2006/CE, Article 31

Date d'impression : 28.02.2019

Révision: 28.02.2019

**Nom du produit: GIEMSA STAIN, Certified DcGe-19**

(suite de la page 5)

- **Effet primaire d'irritation:**
- **Corrosion cutanée/irritation cutanée**  
Provoque une irritation cutanée.
- **Lésions oculaires graves/irritation oculaire**  
Provoque une sévère irritation des yeux.
- **Sensibilisation respiratoire ou cutanée**  
Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
- **Effets CMR (cancérogène, mutagène et toxique pour la reproduction)**
- **Mutagénicité sur les cellules germinales**  
Peut induire des anomalies génétiques.
- **Cancérogénicité** Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
- **Toxicité pour la reproduction**  
Susceptible de nuire à la fertilité ou au fœtus.
- **Toxicité spécifique pour certains organes cibles - exposition unique**  
Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
- **Toxicité spécifique pour certains organes cibles - exposition répétée**  
Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
- **Danger par aspiration** Compte tenu des données disponibles, les critères de classification ne sont pas remplis.

### RUBRIQUE 12: Informations écologiques

- **12.1 Toxicité**
- **Toxicité aquatique:** Pas d'autres informations importantes disponibles.
- **12.2 Persistance et dégradabilité** Pas d'autres informations importantes disponibles.
- **12.3 Potentiel de bioaccumulation** Pas d'autres informations importantes disponibles.
- **12.4 Mobilité dans le sol** Pas d'autres informations importantes disponibles.
- **Autres indications écologiques:**
- **Indications générales:**  
Catégorie de pollution des eaux 3 (D) (Classification propre): très polluant  
Ne pas laisser pénétrer dans la nappe phréatique, les eaux ou les canalisations, même pas en petite quantité.  
Danger pour l'eau potable dès fuite d'une quantité minime dans le sous-sol.
- **12.5 Résultats des évaluations PBT et VPVB**
- **PBT:** Non applicable.
- **vPvB:** Non applicable.
- **12.6 Autres effets néfastes** Pas d'autres informations importantes disponibles.

### RUBRIQUE 13: Considérations relatives à l'élimination

- **13.1 Méthodes de traitement des déchets**
- **Recommandation:** Ne doit pas être évacué avec les ordures ménagères. Ne pas laisser pénétrer dans les égouts.
- **Emballages non nettoyés:**
- **Recommandation:** Evacuation conformément aux prescriptions légales.

### RUBRIQUE 14: Informations relatives au transport

- |  |  |
|--|--|
| · <b>14.1 Numéro ONU</b>                                   |  |
| · <b>ADR, IMDG, IATA</b>                                   | UN3243   |
| · <b>14.2 Désignation officielle de transport de l'ONU</b> |  |
| · <b>ADR</b>   | 3243 SOLIDES CONTENANT DU LIQUIDE TOXIQUE,<br>N.S.A. |

(suite page 7)


**Fiche de données de sécurité**  
selon 1907/2006/CE, Article 31

Date d'impression : 28.02.2019

Révision: 28.02.2019

Nom du produit: **GIEMSA STAIN, Certified DcGe-19**

(suite de la page 6)

· <b>IMDG, IATA</b>	<b>SOLIDS CONTAINING TOXIC LIQUID, N.O.S.</b>
· <b>14.3 Classe(s) de danger pour le transport</b>	
· <b>ADR, IMDG, IATA</b>	
	
· <b>Classe</b>	6.1 Matières toxiques.
· <b>Étiquette</b>	6.1
· <b>14.4 Groupe d'emballage</b>	
· <b>ADR, IMDG, IATA</b>	II
· <b>14.5 Dangers pour l'environnement:</b>	Non applicable.
· <b>14.6 Précautions particulières à prendre par l'utilisateur</b>	Attention: Matières toxiques.
· <b>Indice Kemler:</b>	60
· <b>No EMS:</b>	F-A,S-A
· <b>Stowage Category</b>	B
· <b>Stowage Code</b>	SW2 Clear of living quarters.
· <b>14.7 Transport en vrac conformément à l'annexe II de la convention Marpol et au recueil IBC</b>	Non applicable.
· <b>Indications complémentaires de transport:</b>	
· <b>ADR</b>	
· <b>Quantités limitées (LQ)</b>	500 g
· <b>Quantités exceptées (EQ)</b>	Code: E4 Quantité maximale nette par emballage intérieur: 1 g Quantité maximale nette par emballage extérieur: 500 g
· <b>Catégorie de transport</b>	2
· <b>Code de restriction en tunnels</b>	D/E
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	500 g
· <b>Excepted quantities (EQ)</b>	Code: E4 Maximum net quantity per inner packaging: 1 g Maximum net quantity per outer packaging: 500 g
· <b>"Règlement type" de l'ONU:</b>	UN 3243 SOLIDES CONTENANT DU LIQUIDE TOXIQUE, N.S.A., 6.1, II

### RUBRIQUE 15: Informations relatives à la réglementation

- **15.1 Réglementations/législation particulières à la substance ou au mélange en matière de sécurité, de santé et d'environnement**
- **Directive 2012/18/UE**
- **Substances dangereuses désignées - ANNEXE I** la substance n'est pas comprise
- **Catégorie SEVESO H2 TOXICITÉ AIGUË**
- **Quantité seuil (tonnes) pour l'application des exigences relatives au seuil bas 50 t**
- **Quantité seuil (tonnes) pour l'application des exigences relatives au seuil haut 200 t**

(suite page 8)

FR

# Fiche de données de sécurité

## selon 1907/2006/CE, Article 31

Date d'impression : 28.02.2019

Révision: 28.02.2019

**Nom du produit: GIEMSA STAIN, Certified DcGe-19**

(suite de la page 7)

**· 15.2 Évaluation de la sécurité chimique:** Une évaluation de la sécurité chimique n'a pas été réalisée.

### RUBRIQUE 16: Autres informations

Ces indications sont fondées sur l'état actuel de nos connaissances, mais ne constituent pas une garantie quant aux propriétés du produit et ne donnent pas lieu à un rapport juridique contractuel.

**· Acronymes et abréviations:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 3: Toxicité aiguë – Catégorie 3

Acute Tox. 4: Toxicité aiguë – Catégorie 4

Acute Tox. 2: Toxicité aiguë – Catégorie 2

Skin Irrit. 2: Corrosion cutanée/irritation cutanée – Catégorie 2

Eye Irrit. 2: Lésions oculaires graves/irritation oculaire – Catégorie 2

Muta. 1A: Mutagénicité sur les cellules germinales – Catégorie 1A

Repr. 2: Toxicité pour la reproduction – Catégorie 2

FR

# Sicherheitsdatenblatt

## gemäß 1907/2006/EG, Artikel 31

Druckdatum: 28.02.2019

überarbeitet am: 28.02.2019

### ABSCHNITT 1: Bezeichnung des Stoffs beziehungsweise des Gemischs und des Unternehmens

· **1.1 Produktidentifikator**

· **Handelsname:** GIEMSA STAIN, Certified DcGe-19

· **Artikelnummer:** 15942

· **CAS-Nummer:**

51811-82-6

· **EG-Nummer:**

257-438-2

· **1.2 Relevante identifizierte Verwendungen des Stoffs oder Gemischs und Verwendungen, von denen abgeraten wird**

Keine weiteren relevanten Informationen verfügbar.

· **Verwendung des Stoffes / des Gemisches Laborchemikalien**

· **1.3 Einzelheiten zum Lieferanten, der das Sicherheitsdatenblatt bereitstellt**

· **Hersteller/Lieferant:**

Electron Microscopy Sciences

1560 Industry Road

USA-Hatfield, PA 19440

Tel: 215-412-8400 Fax: 215-412-8450

email: sgkcck@aol.com

www.emsdiasum.com

Science Services GmbH

Unterhachinger Str. 75

81737 München Germany

Tel: +49(0)89 18 93 668-0

safety@scienceservices.de

Deutschland: +49 (0)89 19240, 24h Giftnotruf Munchen, www.toxinfo.org

Osterreich: +43 1406 43 43, Gesundheit Osterreich GmbH, 24 h

· **Auskunftgebender Bereich:** Product safety department

· **1.4 Notrufnummer:**

ChemTrec 1-800-424-9300 Contract CCN7661

1-703-527-3887

### ABSCHNITT 2: Mögliche Gefahren

· **2.1 Einstufung des Stoffs oder Gemischs**

· **Einstufung gemäß Verordnung (EG) Nr. 1272/2008**



GHS06 Totenkopf mit gekreuzten Knochen

Acute Tox. 3 H301 Giftig bei Verschlucken.

Acute Tox. 2 H330 Lebensgefahr bei Einatmen.



GHS08 Gesundheitsgefahr

Muta. 1A H340 Kann genetische Defekte verursachen.

Repr. 2 H361 Kann vermutlich die Fruchtbarkeit beeinträchtigen oder das Kind im Mutterleib schädigen.

(Fortsetzung auf Seite 2)

# Sicherheitsdatenblatt

## gemäß 1907/2006/EG, Artikel 31

Druckdatum: 28.02.2019

überarbeitet am: 28.02.2019

**Handelsname: GIEMSA STAIN, Certified DcGe-19**

(Fortsetzung von Seite 1)



GHS07

Acute Tox. 4 H312 Gesundheitsschädlich bei Hautkontakt.

Skin Irrit. 2 H315 Verursacht Hautreizungen.

Eye Irrit. 2 H319 Verursacht schwere Augenreizung.

### · 2.2 Kennzeichnungselemente

#### · Kennzeichnung gemäß Verordnung (EG) Nr. 1272/2008

Der Stoff ist gemäß CLP-Verordnung eingestuft und gekennzeichnet.

#### · Gefahrenpiktogramme



GHS06 GHS08

#### · Signalwort Gefahr

#### · Gefahrbestimmende Komponenten zur Etikettierung:

Giesma stain

#### · Gefahrenhinweise

H301 Giftig bei Verschlucken.

H312 Gesundheitsschädlich bei Hautkontakt.

H330 Lebensgefahr bei Einatmen.

H315 Verursacht Hautreizungen.

H319 Verursacht schwere Augenreizung.

H340 Kann genetische Defekte verursachen.

H361 Kann vermutlich die Fruchtbarkeit beeinträchtigen oder das Kind im Mutterleib schädigen.

#### · Sicherheitshinweise

P301+P310 **BEI VERSCHLUCKEN: Sofort GIFTINFORMATIONSZENTRUM/Arzt anrufen.**

P330 **Mund ausspülen.**

P305+P351+P338 **BEI KONTAKT MIT DEN AUGEN: Einige Minuten lang behutsam mit Wasser spülen.**

Eventuell vorhandene Kontaktlinsen nach Möglichkeit entfernen. Weiter spülen.

P320 **Besondere Behandlung dringend erforderlich (siehe auf diesem Kennzeichnungsetikett).**

P362+P364 **Kontaminierte Kleidung ausziehen und vor erneutem Tragen waschen.**

P405 **Unter Verschluss aufbewahren.**

P501 **Entsorgung des Inhalts / des Behälters gemäß den örtlichen / regionalen / nationalen / internationalen Vorschriften.**

#### · Zusätzliche Angaben:

Nur für gewerbliche Anwender.

#### · 2.3 Sonstige Gefahren

#### · Ergebnisse der PBT- und vPvB-Beurteilung

· **PBT:** Nicht anwendbar.

· **vPvB:** Nicht anwendbar.

## ABSCHNITT 3: Zusammensetzung/Angaben zu Bestandteilen

### · 3.1 Chemische Charakterisierung: Stoffe

#### · CAS-Nr. Bezeichnung

51811-82-6 Giesma stain

(Fortsetzung auf Seite 3)

# Sicherheitsdatenblatt

## gemäß 1907/2006/EG, Artikel 31

Druckdatum: 28.02.2019

überarbeitet am: 28.02.2019

**Handelsname: GIEMSA STAIN, Certified DcGe-19**

(Fortsetzung von Seite 2)

- **Identifikationsnummer(n)**
- **EG-Nummer:** 257-438-2

### ABSCHNITT 4: Erste-Hilfe-Maßnahmen

- **4.1 Beschreibung der Erste-Hilfe-Maßnahmen**
- **Allgemeine Hinweise:**
  - Mit Produkt verunreinigte Kleidungsstücke unverzüglich entfernen.
  - Atemschutz erst nach Entfernen verunreinigter Kleidungsstücke abnehmen.
  - Bei unregelmäßiger Atmung oder Atemstillstand künstliche Beatmung.
- **Nach Einatmen:**
  - Frischluf- oder Sauerstoffzufuhr; ärztliche Hilfe in Anspruch nehmen.
  - Bei Bewusstlosigkeit Lagerung und Transport in stabiler Seitenlage.
- **Nach Hautkontakt:** Sofort mit Wasser und Seife abwaschen und gut nachspülen.
- **Nach Augenkontakt:**
  - Augen mehrere Minuten bei geöffnetem Lidspalt unter fließendem Wasser spülen. Bei anhaltenden Beschwerden Arzt konsultieren.
- **Nach Verschlucken:** Kein Erbrechen herbeiführen, sofort Arzthilfe zuziehen.
- **4.2 Wichtigste akute und verzögert auftretende Symptome und Wirkungen**
  - Keine weiteren relevanten Informationen verfügbar.
- **4.3 Hinweise auf ärztliche Soforthilfe oder Spezialbehandlung**
  - Keine weiteren relevanten Informationen verfügbar.

### ABSCHNITT 5: Maßnahmen zur Brandbekämpfung

- **5.1 Löschmittel**
- **Geeignete Löschmittel:** Feuerlöschmaßnahmen auf die Umgebung abstimmen.
- **5.2 Besondere vom Stoff oder Gemisch ausgehende Gefahren**
  - Keine weiteren relevanten Informationen verfügbar.
- **5.3 Hinweise für die Brandbekämpfung**
- **Besondere Schutzausrüstung:** Atemschutzgerät anlegen.

### ABSCHNITT 6: Maßnahmen bei unbeabsichtigter Freisetzung

- **6.1 Personenbezogene Vorsichtsmaßnahmen, Schutzausrüstungen und in Notfällen anzuwendende Verfahren**
  - Nicht erforderlich.
- **6.2 Umweltschutzmaßnahmen:** Nicht in die Kanalisation/Oberflächenwasser/Grundwasser gelangen lassen.
- **6.3 Methoden und Material für Rückhaltung und Reinigung:**
  - Kontaminiertes Material als Abfall nach Abschnitt 13 entsorgen.
  - Für ausreichende Lüftung sorgen.
- **6.4 Verweis auf andere Abschnitte**
  - Informationen zur sicheren Handhabung siehe Abschnitt 7.
  - Informationen zur persönlichen Schutzausrüstung siehe Abschnitt 8.
  - Informationen zur Entsorgung siehe Abschnitt 13.

### ABSCHNITT 7: Handhabung und Lagerung

- **7.1 Schutzmaßnahmen zur sicheren Handhabung**
  - Gute Entstaubung.
  - Für gute Belüftung/Absaugung am Arbeitsplatz sorgen.
  - Behälter mit Vorsicht öffnen und handhaben.

(Fortsetzung auf Seite 4)

# Sicherheitsdatenblatt

## gemäß 1907/2006/EG, Artikel 31

Druckdatum: 28.02.2019

überarbeitet am: 28.02.2019

**Handelsname: GIEMSA STAIN, Certified DcGe-19**

(Fortsetzung von Seite 3)

- **Hinweise zum Brand- und Explosionsschutz:** Atemschutzgeräte bereithalten.
- **7.2 Bedingungen zur sicheren Lagerung unter Berücksichtigung von Unverträglichkeiten**
- **Lagerung:**
- **Anforderung an Lagerräume und Behälter:** Keine besonderen Anforderungen.
- **Zusammenlagerungshinweise:** Nicht erforderlich.
- **Weitere Angaben zu den Lagerbedingungen:** Behälter dicht geschlossen halten.
- **Lagerklasse:**
- **Klassifizierung nach Betriebsicherheitsverordnung (BetrSichV):** -
- **7.3 Spezifische Endanwendungen** Keine weiteren relevanten Informationen verfügbar.

### ABSCHNITT 8: Begrenzung und Überwachung der Exposition/Persönliche Schutzausrüstungen

- **Zusätzliche Hinweise zur Gestaltung technischer Anlagen:** Keine weiteren Angaben, siehe Abschnitt 7.
- **8.1 Zu überwachende Parameter**
- **Bestandteile mit arbeitsplatzbezogenen, zu überwachenden Grenzwerten:** Entfällt.
- **Zusätzliche Hinweise:** Als Grundlage dienen die bei der Erstellung gültigen Listen.
- **8.2 Begrenzung und Überwachung der Exposition**
- **Persönliche Schutzausrüstung:**
- **Allgemeine Schutz- und Hygienemaßnahmen:**  
*Von Nahrungsmitteln, Getränken und Futtermitteln fernhalten.  
 Beschmutzte, getränkte Kleidung sofort ausziehen.  
 Vor den Pausen und bei Arbeitsende Hände waschen.  
 Getrennte Aufbewahrung der Schutzkleidung.  
 Berührung mit den Augen und der Haut vermeiden.*
- **Atemschutz:**  
*Bei kurzzeitiger oder geringer Belastung Atemfiltergerät; bei intensiver bzw. längerer Exposition umluftunabhängiges Atemschutzgerät verwenden.*
- **Handschutz:**



Schutzhandschuhe

*Das Handschuhmaterial muss undurchlässig und beständig gegen das Produkt / den Stoff / die Zubereitung sein. Aufgrund fehlender Tests kann keine Empfehlung zum Handschuhmaterial für das Produkt / die Zubereitung / das Chemikaliengemisch abgegeben werden.*

*Auswahl des Handschuhmaterials unter Beachtung der Durchbruchzeiten, Permeationsraten und der Degradation.*

- **Handschuhmaterial**  
*Die Auswahl eines geeigneten Handschuhs ist nicht nur vom Material, sondern auch von weiteren Qualitätsmerkmalen abhängig und von Hersteller zu Hersteller unterschiedlich.*
- **Durchdringungszeit des Handschuhmaterials**  
*Die genaue Durchbruchzeit ist beim Schutzhandschuhhersteller zu erfahren und einzuhalten.*

(Fortsetzung auf Seite 5)



# Sicherheitsdatenblatt

## gemäß 1907/2006/EG, Artikel 31

Druckdatum: 28.02.2019

überarbeitet am: 28.02.2019

Handelsname: *GIEMSA STAIN, Certified DcGe-19*

(Fortsetzung von Seite 4)

· **Augenschutz:**

Dichtschließende Schutzbrille

### ABSCHNITT 9: Physikalische und chemische Eigenschaften

· **9.1 Angaben zu den grundlegenden physikalischen und chemischen Eigenschaften**· **Allgemeine Angaben**· **Aussehen:**

<b>Form:</b>	Kristallines Pulver
--------------	---------------------

<b>Farbe:</b>	Dunkelgrün
---------------	------------

<b>Geruch:</b>	Geruchlos
----------------	-----------

<b>Geruchsschwelle:</b>	Nicht bestimmt.
-------------------------	-----------------

<b>pH-Wert:</b>	Nicht anwendbar.
-----------------	------------------

· **Zustandsänderung**

<b>Schmelzpunkt/Gefrierpunkt:</b>	300 °C
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<b>Siedebeginn und Siedebereich:</b>	442,8 °C
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<b>Flammpunkt:</b>	221 °C
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<b>Entzündbarkeit (fest, gasförmig):</b>	Der Stoff ist nicht entzündlich.
--	----------------------------------

	Nicht bestimmt.
--	-----------------

	Nicht anwendbar.
--	------------------

<b>Zersetzungstemperatur:</b>	Nicht bestimmt.
-------------------------------	-----------------

<b>Selbstentzündungstemperatur:</b>	Nicht bestimmt.
-------------------------------------	-----------------

<b>Explosive Eigenschaften:</b>	Das Produkt ist nicht explosionsgefährlich.
---------------------------------	---

· **Explosionsgrenzen:**

<b>Untere:</b>	Nicht bestimmt.
----------------	-----------------

<b>Obere:</b>	Nicht bestimmt.
---------------	-----------------

<b>Dampfdruck:</b>	Nicht anwendbar.
--------------------	------------------

<b>Dichte bei 20 °C:</b>	0,99 g/cm <sup>3</sup>
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<b>Relative Dichte</b>	Nicht bestimmt.
------------------------	-----------------

<b>Dampfdichte</b>	Nicht anwendbar.
--------------------	------------------

<b>Verdampfungsgeschwindigkeit</b>	Nicht anwendbar.
------------------------------------	------------------

· **Löslichkeit in / Mischbarkeit mit**

<b>Wasser:</b>	Unlöslich.
----------------	------------

<b>Verteilungskoeffizient: n-Octanol/Wasser:</b>	Nicht bestimmt.
--	-----------------

· **Viskosität:**

<b>Dynamisch:</b>	Nicht anwendbar.
-------------------	------------------

<b>Kinematisch:</b>	Nicht anwendbar.
---------------------	------------------

· **Lösemittelgehalt:**

<b>VOC (EU)</b>	0,00 %
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<b>Festkörpergehalt:</b>	100,0 %
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(Fortsetzung auf Seite 6)

# Sicherheitsdatenblatt

## gemäß 1907/2006/EG, Artikel 31

Druckdatum: 28.02.2019

überarbeitet am: 28.02.2019

**Handelsname: GIEMSA STAIN, Certified DcGe-19**

(Fortsetzung von Seite 5)

**· 9.2 Sonstige Angaben**

Keine weiteren relevanten Informationen verfügbar.

### ABSCHNITT 10: Stabilität und Reaktivität

- **10.1 Reaktivität** Keine weiteren relevanten Informationen verfügbar.
- **10.2 Chemische Stabilität**
- **Thermische Zersetzung / zu vermeidende Bedingungen:**  
Keine Zersetzung bei bestimmungsgemäßer Verwendung.
- **10.3 Möglichkeit gefährlicher Reaktionen** Keine gefährlichen Reaktionen bekannt.
- **10.4 Zu vermeidende Bedingungen** Keine weiteren relevanten Informationen verfügbar.
- **10.5 Unverträgliche Materialien:** Keine weiteren relevanten Informationen verfügbar.
- **10.6 Gefährliche Zersetzungsprodukte:** Keine gefährlichen Zersetzungsprodukte bekannt.

### ABSCHNITT 11: Toxikologische Angaben

- **11.1 Angaben zu toxikologischen Wirkungen**
- **Akute Toxizität**  
Giftig bei Verschlucken.  
Gesundheitsschädlich bei Hautkontakt.  
Lebensgefahr bei Einatmen.
- **Primäre Reizwirkung:**
- **Ätz-/Reizwirkung auf die Haut**  
Verursacht Hautreizungen.
- **Schwere Augenschädigung/-reizung**  
Verursacht schwere Augenreizung.
- **Sensibilisierung der Atemwege/Haut** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- **CMR-Wirkungen (krebserzeugende, erbgutverändernde und fortpflanzungsgefährdende Wirkung)**
- **Keimzell-Mutagenität**  
Kann genetische Defekte verursachen.
- **Karzinogenität** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- **Reproduktionstoxizität**  
Kann vermutlich die Fruchtbarkeit beeinträchtigen oder das Kind im Mutterleib schädigen.
- **Spezifische Zielorgan-Toxizität bei einmaliger Exposition**  
Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- **Spezifische Zielorgan-Toxizität bei wiederholter Exposition**  
Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- **Aspirationsgefahr** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

### ABSCHNITT 12: Umweltbezogene Angaben

- **12.1 Toxizität**
- **Aquatische Toxizität:** Keine weiteren relevanten Informationen verfügbar.
- **12.2 Persistenz und Abbaubarkeit** Keine weiteren relevanten Informationen verfügbar.
- **12.3 Bioakkumulationspotenzial** Keine weiteren relevanten Informationen verfügbar.
- **12.4 Mobilität im Boden** Keine weiteren relevanten Informationen verfügbar.
- **Weitere ökologische Hinweise:**
- **Allgemeine Hinweise:**  
Wassergefährdungsklasse 3 (Selbsteinstufung): stark wassergefährdend  
Nicht in das Grundwasser, in Gewässer oder in die Kanalisation gelangen lassen, auch nicht in kleinen Mengen.  
Trinkwassergefährdung bereits beim Auslaufen geringster Mengen in den Untergrund.

(Fortsetzung auf Seite 7)

# Sicherheitsdatenblatt

## gemäß 1907/2006/EG, Artikel 31

Druckdatum: 28.02.2019

überarbeitet am: 28.02.2019

**Handelsname: GIEMSA STAIN, Certified DcGe-19**


(Fortsetzung von Seite 6)

- **12.5 Ergebnisse der PBT- und vPvB-Beurteilung**
- **PBT:** Nicht anwendbar.
- **vPvB:** Nicht anwendbar.
- **12.6 Andere schädliche Wirkungen** Keine weiteren relevanten Informationen verfügbar.

### ABSCHNITT 13: Hinweise zur Entsorgung

- **13.1 Verfahren der Abfallbehandlung**
- **Empfehlung:** Darf nicht zusammen mit Hausmüll entsorgt werden. Nicht in die Kanalisation gelangen lassen.
- **Ungereinigte Verpackungen:**
- **Empfehlung:** Entsorgung gemäß den behördlichen Vorschriften.

### ABSCHNITT 14: Angaben zum Transport

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>· <b>14.1 UN-Nummer</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>   | <p style="margin-left: 20px;">UN3243</p>   |
| <ul style="list-style-type: none"> <li>· <b>14.2 Ordnungsgemäße UN-Versandbezeichnung</b></li> <li>· <b>ADR</b></li> <li>· <b>IMDG, IATA</b></li> </ul>   | <p style="margin-left: 20px;">3243 FESTE STOFFE MIT GIFTIGEM FLÜSSIGEM STOFF, N.A.G.<br/>SOLIDS CONTAINING TOXIC LIQUID, N.O.S.</p>  |
| <ul style="list-style-type: none"> <li>· <b>14.3 Transportgefahrenklassen</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>  | <div style="text-align: center; margin-bottom: 10px;">  </div> <p style="margin-left: 20px;">6.1 Giftige Stoffe<br/>6.1</p> |
| <ul style="list-style-type: none"> <li>· <b>14.4 Verpackungsgruppe</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>   | <p style="margin-left: 20px;">II</p>   |
| <ul style="list-style-type: none"> <li>· <b>14.5 Umweltgefahren:</b></li> </ul>   | <p style="margin-left: 20px;">Nicht anwendbar.</p>   |
| <ul style="list-style-type: none"> <li>· <b>14.6 Besondere Vorsichtsmaßnahmen für den Verwender</b></li> <li>· <b>Kemler-Zahl:</b></li> <li>· <b>EMS-Nummer:</b></li> <li>· <b>Stowage Category</b></li> <li>· <b>Stowage Code</b></li> </ul> | <p style="margin-left: 20px;">Achtung: Giftige Stoffe<br/>60<br/>F-A,S-A<br/>B<br/>SW2 Clear of living quarters.</p>   |
| <ul style="list-style-type: none"> <li>· <b>14.7 Massengutbeförderung gemäß Anhang II des MARPOL-Übereinkommens und gemäß IBC-Code</b></li> </ul>   | <p style="margin-left: 20px;">Nicht anwendbar.</p>   |
| <ul style="list-style-type: none"> <li>· <b>Transport/weitere Angaben:</b></li> </ul>   |  |
| <ul style="list-style-type: none"> <li>· <b>ADR</b></li> <li>· <b>Begrenzte Menge (LQ)</b></li> <li>· <b>Freigestellte Mengen (EQ)</b></li> <li>· <b>Beförderungskategorie</b></li> </ul>   | <p style="margin-left: 20px;">500 g<br/>Code: E4<br/>Höchste Nettomenge je Innenverpackung: 1 g<br/>Höchste Nettomenge je Außenverpackung: 500 g<br/>2</p>   |

(Fortsetzung auf Seite 8)

# Sicherheitsdatenblatt

## gemäß 1907/2006/EG, Artikel 31

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**Handelsname: GIEMSA STAIN, Certified DcGe-19**

(Fortsetzung von Seite 7)

· <b>Tunnelbeschränkungscode</b>	D/E
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	500 g
· <b>Excepted quantities (EQ)</b>	Code: E4 Maximum net quantity per inner packaging: 1 g Maximum net quantity per outer packaging: 500 g
· <b>UN "Model Regulation":</b>	UN 3243 FESTE STOFFE MIT GIFTIGEM FLÜSSIGEM STOFF, N.A.G., 6.1, II

### ABSCHNITT 15: Rechtsvorschriften

- **15.1 Vorschriften zu Sicherheit, Gesundheits- und Umweltschutz/spezifische Rechtsvorschriften für den Stoff oder das Gemisch**
- **Richtlinie 2012/18/EU**
- **Namentlich aufgeführte gefährliche Stoffe - ANHANG I** Der Stoff ist nicht enthalten.
- **Seveso-Kategorie H2 AKUT TOXISCH**
- **Mengenschwelle (in Tonnen) für die Anwendung in Betrieben der unteren Klasse 50 t**
- **Mengenschwelle (in Tonnen) für die Anwendung in Betrieben der oberen Klasse 200 t**
- **Nationale Vorschriften:**
- **Wassergefährdungsklasse: WGK 3 (Selbsteinstufung): stark wassergefährdend.**
- **Sonstige Vorschriften, Beschränkungen und Verbotsverordnungen**  
Das Produkt unterliegt der Anlage 2 der Chemikalienverbotsverordnung (ChemVerbotsV) - Anforderungen in Bezug auf die Abgabe
- **15.2 Stoffsicherheitsbeurteilung: Eine Stoffsicherheitsbeurteilung wurde nicht durchgeführt.**

### ABSCHNITT 16: Sonstige Angaben

Die Angaben stützen sich auf den heutigen Stand unserer Kenntnisse, sie stellen jedoch keine Zusicherung von Produkteigenschaften dar und begründen kein vertragliches Rechtsverhältnis.

- **Abkürzungen und Akronyme:**  
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
VOC: Volatile Organic Compounds (USA, EU)  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Acute Tox. 3: Akute Toxizität – Kategorie 3  
Acute Tox. 4: Akute Toxizität – Kategorie 4  
Acute Tox. 2: Akute Toxizität – Kategorie 2  
Skin Irrit. 2: Hautreizende/-ätzende Wirkung – Kategorie 2  
Eye Irrit. 2: Schwere Augenschädigung/Augenreizung – Kategorie 2  
Muta. 1A: Keimzellmutagenität – Kategorie 1A  
Repr. 2: Reproduktionstoxizität – Kategorie 2

**Scheda di dati di sicurezza**  
ai sensi del regolamento 1907/2006/CE, Articolo 31

Stampato il: 28.02.2019

Revisione: 28.02.2019

### SEZIONE 1: Identificazione della sostanza o della miscela e della società/impresa

· **1.1 Identificatore del prodotto**

· **Denominazione commerciale:** GIEMSA STAIN, Certified DcGe-19

· **Articolo numero:** 15942

· **Numero CAS:**

51811-82-6

· **Numeri CE:**

257-438-2

· **1.2 Usi identificati pertinenti della sostanza o della miscela e usi sconsigliati**

Non sono disponibili altre informazioni.

· **Utilizzazione della Sostanza / del Preparato** Prodotti chimici per laboratorio

· **1.3 Informazioni sul fornitore della scheda di dati di sicurezza**

· **Produttore/fornitore:**

Electron Microscopy Sciences

1560 Industry Road

USA-Hatfield, PA 19440

Tel: 215-412-8400 Fax: 215-412-8450

email: sgkcck@aol.com

www.emsdiasum.com

Societa Italiana Chimici

Via Rio Nell Ellba 140

00138 Rome, Italy

Tel: 39 06 8800211

Fax: 39 30 06 8815313

Web: www.sichim.com

· **Informazioni fornite da:** Product safety department

· **1.4 Numero telefonico di emergenza:**

ChemTrec 1-800-424-9300 Contract CCN7661

1-703-527-3887

### SEZIONE 2: Identificazione dei pericoli

· **2.1 Classificazione della sostanza o della miscela**

· **Classificazione secondo il regolamento (CE) n. 1272/2008**



GHS06 teschio e tibie incrociate

Acute Tox. 3 H301 Tossico se ingerito.

Acute Tox. 2 H330 Letale se inalato.



GHS08 pericolo per la salute

Muta. 1A H340 Può provocare alterazioni genetiche.

Repr. 2 H361 Sospettato di nuocere alla fertilità o al feto.



GHS07

Acute Tox. 4 H312 Nocivo per contatto con la pelle.

Skin Irrit. 2 H315 Provoca irritazione cutanea.

(continua a pagina 2)

**Scheda di dati di sicurezza**  
**ai sensi del regolamento 1907/2006/CE, Articolo 31**

Stampato il: 28.02.2019

Revisione: 28.02.2019

**Denominazione commerciale: GIEMSA STAIN, Certified DcGe-19**

(Segue da pagina 1)

Eye Irrit. 2 H319 Provoca grave irritazione oculare.

**· 2.2 Elementi dell'etichetta**

**· Etichettatura secondo il regolamento (CE) n. 1272/2008**

La sostanza è classificata ed etichettata conformemente al regolamento CLP.

**· Pittogrammi di pericolo**



GHS06 GHS08

**· Avvertenza Pericolo**

**· Componenti pericolosi che ne determinano l'etichettatura:**

Giesma stain

**· Indicazioni di pericolo**

H301 Tossico se ingerito.

H312 Nocivo per contatto con la pelle.

H330 Letale se inalato.

H315 Provoca irritazione cutanea.

H319 Provoca grave irritazione oculare.

H340 Può provocare alterazioni genetiche.

H361 Sospettato di nuocere alla fertilità o al feto.

**· Consigli di prudenza**

P301+P310 **IN CASO DI INGESTIONE:** contattare immediatamente un CENTRO ANTIVELENI/un medico.

P330 Sciacquare la bocca.

P305+P351+P338 **IN CASO DI CONTATTO CON GLI OCCHI:** sciacquare accuratamente per parecchi minuti. Togliere le eventuali lenti a contatto se è agevole farlo. Continuare a sciacquare.

P320 Trattamento specifico urgente (vedere su questa etichetta).

P362+P364 Togliere tutti gli indumenti contaminati e lavarli prima di indossarli nuovamente.

P405 Conservare sotto chiave.

P501 Smaltire il prodotto/recipiente in conformità con le disposizioni locali / regionali / nazionali / internazionali.

**· 2.3 Altri pericoli**

**· Risultati della valutazione PBT e vPvB**

· **PBT:** Non applicabile.

· **vPvB:** Non applicabile.

### SEZIONE 3: Composizione/informazioni sugli ingredienti

**· 3.1 Caratteristiche chimiche: Sostanze**

**· Numero CAS**

51811-82-6 Giesma stain

**· Numeroli di identificazione**

· **Numeri CE:** 257-438-2

### SEZIONE 4: Misure di primo soccorso

**· 4.1 Descrizione delle misure di primo soccorso**

**· Indicazioni generali:**

Allontanare immediatamente gli abiti contaminati dal prodotto.

(continua a pagina 3)

**Scheda di dati di sicurezza**  
ai sensi del regolamento 1907/2006/CE, Articolo 31

Stampato il: 28.02.2019

Revisione: 28.02.2019

**Denominazione commerciale: GIEMSA STAIN, Certified DcGe-19**

(Segue da pagina 2)

*Levarsi la maschera protettiva solamente dopo aver tolto gli abiti contaminati.*

*In caso di respirazione irregolare o di blocco respiratorio praticare la respirazione artificiale.*

**· Inalazione:**

*Portare il soggetto in zona ben areata o somministrare ossigeno; chiedere l'intervento di un medico.*

*Se il soggetto è svenuto provvedere a tenerlo durante il trasporto in posizione stabile su un fianco.*

**· Contatto con la pelle:** *Lavare immediatamente con acqua e sapone sciacquando accuratamente.*

**· Contatto con gli occhi:**

*Lavare con acqua corrente per diversi minuti tenendo le palpebre ben aperte Se persiste il dolore consultare il medico.*

**· Ingestione:** *Non provocare il vomito, chiamare subito il medico.*

**· 4.2 Principali sintomi ed effetti, sia acuti che ritardati** *Non sono disponibili altre informazioni.*

**· 4.3 Indicazione dell'eventuale necessità di consultare immediatamente un medico e di trattamenti speciali**  
*Non sono disponibili altre informazioni.*

### SEZIONE 5: Misure antincendio

**· 5.1 Mezzi di estinzione**

**· Mezzi di estinzione idonei:** *Adottare provvedimenti antiincendio nei dintorni della zona colpita.*

**· 5.2 Pericoli speciali derivanti dalla sostanza o dalla miscela** *Non sono disponibili altre informazioni.*

**· 5.3 Raccomandazioni per gli addetti all'estinzione degli incendi**

**· Mezzi protettivi specifici:** *Indossare il respiratore.*

### SEZIONE 6: Misure in caso di rilascio accidentale

**· 6.1 Precauzioni personali, dispositivi di protezione e procedure in caso di emergenza** *Non necessario.*

**· 6.2 Precauzioni ambientali:** *Impedire infiltrazioni nella fognatura/nelle acque superficiali/nelle acque freatiche.*

**· 6.3 Metodi e materiali per il contenimento e per la bonifica:**

*Smaltimento del materiale contaminato conformemente al punto 13.*

*Provvedere ad una sufficiente areazione.*

**· 6.4 Riferimento ad altre sezioni**

*Per informazioni relative ad un manipolazione sicura, vedere capitolo 7.*

*Per informazioni relative all'equipaggiamento protettivo ad uso personale vedere Capitolo 8.*

*Per informazioni relative allo smaltimento vedere Capitolo 13.*

### SEZIONE 7: Manipolazione e immagazzinamento

**· 7.1 Precauzioni per la manipolazione sicura**

*Accurata captazione delle polveri.*

*Accurata ventilazione/aspirazione nei luoghi di lavoro.*

*Aprire e manipolare i recipienti con cautela.*

**· Indicazioni in caso di incendio ed esplosione:** *Tener pronto il respiratore.*

**· 7.2 Condizioni per lo stoccaggio sicuro, comprese eventuali incompatibilità**

**· Stoccaggio:**

**· Requisiti dei magazzini e dei recipienti:** *Non sono richiesti requisiti particolari.*

**· Indicazioni sullo stoccaggio misto:** *Non necessario.*

**· Ulteriori indicazioni relative alle condizioni di immagazzinamento:** *Mantenere i recipienti ermeticamente chiusi.*

**· 7.3 Usi finali particolari** *Non sono disponibili altre informazioni.*

IT

(continua a pagina 4)

**Scheda di dati di sicurezza**  
ai sensi del regolamento 1907/2006/CE, Articolo 31

Stampato il: 28.02.2019

Revisione: 28.02.2019

Denominazione commerciale: **GIEMSA STAIN, Certified DcGe-19**

(Segue da pagina 3)

### SEZIONE 8: Controllo dell'esposizione/protezione individuale

- **Ulteriori indicazioni sulla struttura di impianti tecnici:** Nessun dato ulteriore, vedere punto 7.
- **8.1 Parametri di controllo**
- **Componenti i cui valori limite devono essere tenuti sotto controllo negli ambienti di lavoro:** Non Necessario.
- **Ulteriori indicazioni:** Le liste valide alla data di compilazione sono state usate come base.
- **8.2 Controlli dell'esposizione**
- **Mezzi protettivi individuali:**
- **Norme generali protettive e di igiene del lavoro:**  
Tenere lontano da cibo, bevande e foraggi.  
Togliere immediatamente gli abiti contaminati.  
Lavarsi le mani prima dell'intervallo o a lavoro terminato.  
Custodire separatamente l'equipaggiamento protettivo.  
Evitare il contatto con gli occhi e la pelle.
- **Maschera protettiva:**  
Nelle esposizioni brevi e minime utilizzare la maschera; nelle esposizioni più intense e durature indossare l'autorespiratore.
- **Guanti protettivi:**



Guanti protettivi

Il materiale dei guanti deve essere impermeabile e stabile contro il prodotto/ la sostanza/ la formulazione.  
A causa della mancanza di tests non può essere consigliato alcun tipo di materiale per i guanti con cui manipolare il prodotto / la formulazione / la miscela di sostanze chimiche.  
Scelta del materiale dei guanti in considerazione dei tempi di passaggio, dei tassi di permeazione e della degradazione.

- **Materiale dei guanti**  
La scelta dei guanti adatti non dipende soltanto dal materiale bensì anche da altre caratteristiche di qualità variabili da un produttore a un altro.
- **Tempo di permeazione del materiale dei guanti**  
Richiedere dal fornitore dei guanti il tempo di passaggio preciso il quale deve essere rispettato.
- **Occhiali protettivi:**



Occhiali protettivi a tenuta

### SEZIONE 9: Proprietà fisiche e chimiche

- **9.1 Informazioni sulle proprietà fisiche e chimiche fondamentali**
- **Indicazioni generali**
- **Aspetto:**
- **Forma:** Polvere cristallina
- **Colore:** Verde scuro
- **Odore:** Inodore
- **Soglia olfattiva:** Non definito.
- **valori di pH:** Non applicabile.

(continua a pagina 5)



**Scheda di dati di sicurezza**  
ai sensi del regolamento 1907/2006/CE, Articolo 31

Stampato il: 28.02.2019

Revisione: 28.02.2019

**Denominazione commerciale: GIEMSA STAIN, Certified DcGe-19**

(Segue da pagina 4)

· <b>Cambiamento di stato</b> Punto di fusione/punto di congelamento:	300 °C
Punto di ebollizione iniziale e intervallo di ebollizione:	442,8 °C
· <b>Punto di infiammabilità:</b>	221 °C
· <b>Infiammabilità (solidi, gas):</b>	Sostanza non infiammabile. Non definito. Non applicabile.
· <b>Temperatura di decomposizione:</b>	Non definito.
· <b>Temperatura di autoaccensione:</b>	Non definito.
· <b>Proprietà esplosive:</b>	Prodotto non esplosivo.
· <b>Limiti di infiammabilità:</b> Inferiore:	Non definito.
Superiore:	Non definito.
· <b>Tensione di vapore:</b>	Non applicabile.
· <b>Densità a 20 °C:</b>	0,99 g/cm <sup>3</sup>
· <b>Densità relativa</b>	Non definito.
· <b>Densità di vapore:</b>	Non applicabile.
· <b>Velocità di evaporazione</b>	Non applicabile.
· <b>Solubilità in/Miscibilità con acqua:</b>	Insolubile.
· <b>Coefficiente di ripartizione: n-ottanolo/acqua:</b>	Non definito.
· <b>Viscosità:</b> Dinamica:	Non applicabile.
Cinematica:	Non applicabile.
· <b>Tenore del solvente:</b> VOC (CE)	0,00 %
· <b>Contenuto solido:</b>	100,0 %
· <b>9.2 Altre informazioni</b>	Non sono disponibili altre informazioni.

### SEZIONE 10: Stabilità e reattività

- **10.1 Reattività** Non sono disponibili altre informazioni.
- **10.2 Stabilità chimica**
- **Decomposizione termica/ condizioni da evitare:** Il prodotto non si decompone se utilizzato secondo le norme.
- **10.3 Possibilità di reazioni pericolose** Non sono note reazioni pericolose.
- **10.4 Condizioni da evitare** Non sono disponibili altre informazioni.
- **10.5 Materiali incompatibili:** Non sono disponibili altre informazioni.
- **10.6 Prodotti di decomposizione pericolosi:** Non sono noti prodotti di decomposizione pericolosi.

IT

(continua a pagina 6)

**Scheda di dati di sicurezza**  
ai sensi del regolamento 1907/2006/CE, Articolo 31

Stampato il: 28.02.2019

Revisione: 28.02.2019

Denominazione commerciale: **GIEMSA STAIN, Certified DcGe-19**

(Segue da pagina 5)

### SEZIONE 11: Informazioni tossicologiche

- **11.1 Informazioni sugli effetti tossicologici**
- **Tossicità acuta**  
Tossico se ingerito.  
Nocivo per contatto con la pelle.  
Letale se inalato.
- **Irritabilità primaria:**
- **Corrosione/irritazione cutanea**  
Provoca irritazione cutanea.
- **Lesioni oculari gravi/irritazioni oculari gravi**  
Provoca grave irritazione oculare.
- **Sensibilizzazione respiratoria o cutanea**  
Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.
- **Effetti CMR (cancerogenicità, mutagenicità e tossicità per la riproduzione)**
- **Mutagenicità delle cellule germinali**  
Può provocare alterazioni genetiche.
- **Cancerogenicità** Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.
- **Tossicità per la riproduzione**  
Sospettato di nuocere alla fertilità o al feto.
- **Tossicità specifica per organi bersaglio (STOT) - esposizione singola**  
Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.
- **Tossicità specifica per organi bersaglio (STOT) - esposizione ripetuta**  
Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.
- **Pericolo in caso di aspirazione** Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.

### SEZIONE 12: Informazioni ecologiche

- **12.1 Tossicità**
- **Tossicità acquatica:** Non sono disponibili altre informazioni.
- **12.2 Persistenza e degradabilità** Non sono disponibili altre informazioni.
- **12.3 Potenziale di bioaccumulo** Non sono disponibili altre informazioni.
- **12.4 Mobilità nel suolo** Non sono disponibili altre informazioni.
- **Ulteriori indicazioni in materia ambientale:**
- **Ulteriori indicazioni:**  
Pericolosità per le acque classe 3 (D) (Autoclassificazione): molto pericoloso  
Non immettere nelle acque freatiche, nei corsi d'acqua o nelle fognature, anche in piccole dosi.  
Pericolo per le acque potabili anche in caso di perdite nel sottosuolo di quantità minime di prodotto.
- **12.5 Risultati della valutazione PBT e vPvB**
- **PBT:** Non applicabile.
- **vPvB:** Non applicabile.
- **12.6 Altri effetti avversi** Non sono disponibili altre informazioni.

### SEZIONE 13: Considerazioni sullo smaltimento

- **13.1 Metodi di trattamento dei rifiuti**
- **Consigli:** Non smaltire il prodotto insieme ai rifiuti domestici Non immettere nelle fognature.

(continua a pagina 7)

**Scheda di dati di sicurezza**  
ai sensi del regolamento 1907/2006/CE, Articolo 31

Stampato il: 28.02.2019


Revisione: 28.02.2019

**Denominazione commerciale: GIEMSA STAIN, Certified DcGe-19**

(Segue da pagina 6)

- **Imballaggi non puliti:**
- **Consigli:** Smaltimento in conformità con le disposizioni amministrative.

### SEZIONE 14: Informazioni sul trasporto

· <b>14.1 Numero ONU</b> · <b>ADR, IMDG, IATA</b>	UN3243
· <b>14.2 Nome di spedizione dell'ONU</b> · <b>ADR</b> · <b>IMDG, IATA</b>	3243 SOLIDI CONTENENTI LIQUIDO TOSSICO, N.A.S. SOLIDS CONTAINING TOXIC LIQUID, N.O.S.
· <b>14.3 Classi di pericolo connesso al trasporto</b> · <b>ADR, IMDG, IATA</b>	
	
· <b>Classe</b> · <b>Etichetta</b>	6.1 Materie tossiche 6.1
· <b>14.4 Gruppo di imballaggio</b> · <b>ADR, IMDG, IATA</b>	II
· <b>14.5 Pericoli per l'ambiente:</b>	Non applicabile.
· <b>14.6 Precauzioni speciali per gli utilizzatori</b> · <b>Numero Kemler:</b> · <b>Numero EMS:</b> · <b>Stowage Category</b> · <b>Stowage Code</b>	Attenzione: Materie tossiche 60 F-A,S-A B SW2 Clear of living quarters.
· <b>14.7 Trasporto di rifiuti secondo l'allegato II di MARPOL ed il codice IBC</b>	Non applicabile.
· <b>Trasporto/ulteriori indicazioni:</b>	
· <b>ADR</b> · <b>Quantità limitate (LQ)</b> · <b>Quantità esenti (EQ)</b>  · <b>Categoria di trasporto</b> · <b>Codice di restrizione in galleria</b>	500 g Codice: E4 Quantità massima netta per imballaggio interno: 1 g Quantità massima netta per imballaggio esterno: 500 g 2 D/E
· <b>IMDG</b> · <b>Limited quantities (LQ)</b> · <b>Excepted quantities (EQ)</b>	500 g Code: E4 Maximum net quantity per inner packaging: 1 g Maximum net quantity per outer packaging: 500 g
· <b>UN "Model Regulation":</b>	UN 3243 SOLIDI CONTENENTI LIQUIDO TOSSICO, N.A.S., 6.1, II

(continua a pagina 8)

**Scheda di dati di sicurezza**  
**ai sensi del regolamento 1907/2006/CE, Articolo 31**

Stampato il: 28.02.2019

Revisione: 28.02.2019

**Denominazione commerciale: GIEMSA STAIN, Certified DcGe-19**

(Segue da pagina 7)

### **SEZIONE 15: Informazioni sulla regolamentazione**

- **15.1 Disposizioni legislative e regolamentari su salute, sicurezza e ambiente specifiche per la sostanza o la miscela**
- **Direttiva 2012/18/UE**
- **Sostanze pericolose specificate - ALLEGATO I** La sostanza non è contenuta
- **Categoria Seveso H2 TOSSICITÀ ACUTA**
- **Quantità limite (tonnellate) ai fini dell'applicazione dei requisiti di soglia inferiore 50 t**
- **Quantità limite (tonnellate) ai fini dell'applicazione dei requisiti di soglia superiore 200 t**
- **15.2 Valutazione della sicurezza chimica:** Una valutazione della sicurezza chimica non è stata effettuata.

### **SEZIONE 16: Altre informazioni**

*I dati sono riportati sulla base delle nostre conoscenze attuali, non rappresentano tuttavia alcuna garanzia delle caratteristiche del prodotto e non motivano alcun rapporto giuridico contrattuale.*

· **Abbreviazioni e acronimi:**

*ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)*

*IMDG: International Maritime Code for Dangerous Goods*

*IATA: International Air Transport Association*

*GHS: Globally Harmonised System of Classification and Labelling of Chemicals*

*EINECS: European Inventory of Existing Commercial Chemical Substances*

*CAS: Chemical Abstracts Service (division of the American Chemical Society)*

*VOC: Volatile Organic Compounds (USA, EU)*

*PBT: Persistent, Bioaccumulative and Toxic*

*vPvB: very Persistent and very Bioaccumulative*

*Acute Tox. 3: Tossicità acuta – Categoria 3*

*Acute Tox. 4: Tossicità acuta – Categoria 4*

*Acute Tox. 2: Tossicità acuta – Categoria 2*

*Skin Irrit. 2: Corrosione/irritazione della pelle – Categoria 2*

*Eye Irrit. 2: Gravi lesioni oculari/irritazione oculare – Categoria 2*

*Muta. 1A: Mutagenicità sulle cellule germinali – Categoria 1A*

*Repr. 2: Tossicità per la riproduzione – Categoria 2*

# 물질안전보건자료 GHS에 따라

기압점: 2019.02.28

개정: 2019.02.28

## 1 화학제품과 회사에 관한 정보

- **제품 식별자**
  - **제품명:** GIEMSA STAIN, Certified DcGe-19
  - **상품번호:** 15942
  - **CAS-번호**  
51811-82-6
  - **EC 의번호:**  
257-438-2
  - **해당 순물질이나 혼합물의 관련 하위용도 및 사용금지용도** 추가적인 정보가 존재하지 않습니다.
  - **제품의 권고 용도와 사용상의 제한:** 실험실화학품
  - **안전데이터표(Safety Data Sheet)내 공급업체 관련 상세 정보**
  - **제조사/수입자/유통업자 정보:**  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: sgkcck@aol.com  
www.emsdiasum.com
  - **Samchang Commercial Co., Ltd.**  
Yeo Eui Do  
PO Box 1110  
Seoul, Korea  
Tel: 82 2 703 3040  
Fax: 82 2 717 3298
- 
- **Daedok Science, Co. Ltd.**  
34141 E10 Korea Advanced Institute of Science  
Guseong-Dong, Yuseong-gu, Daejeon,  
Korea  
Phone: 82 42 710 2091  
Fax: 82 42 367 0005  
Website: www.labsmro.com
  - **추가적인 정보 획득 가능:** Product safety department
  - **비상연락 전화번호:**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

## 2 유해성·위험성

- **순물질 또는 혼합물의 분류**



두개골과 대퇴골

- |                   |                   |
|-------------------|-------------------|
| 급성 독성 - 경구 - 구분 2 | H300 삼키면 치명적임     |
| 급성 독성 - 경피 - 구분 3 | H311 피부와 접촉하면 유독함 |
| 급성 독성 - 흡입 - 구분 2 | H330 흡입하면 치명적임    |



건강에 위험

- |                   |                                  |
|-------------------|----------------------------------|
| 생식세포 변이원성 - 구분 1A | H340 유전적인 결함을 일으킬 수 있음           |
| 생식독성 - 구분 2       | H361 태아 또는 생식능력에 손상을 일으킬 것으로 의심됨 |

(2 쪽에 계속)

# 물질안전보건자료 GHS에 따라

기압점: 2019.02.28

개정: 2019.02.28

**제품명: GIEMSA STAIN, Certified DcGe-19**

(1 쪽부터계속)



피부 부식성/피부 자극성 - 구분 2 H315 피부에 자극을 일으킴  
심한 눈 손상성/눈 자극성 - 구분 2 H319 눈에 심한 자극을 일으킴

- 라벨표기 요소
  - GHS 라벨 요소
  - 그림문자
- 본 화학물질은 화학물질의 분류 및 표기에 관한 국제조화시스템(GHS)에 따라 분류 및 표기되었습니다.



GHS06 GHS08

- 신호어 위험
- 상표상에명확히위험성이표시된성분:  
Giesma stain
- 유해.위험 문구  
삼키거나 흡입하면 치명적임.  
피부와 접촉하면 유독함  
피부에 자극을 일으킴  
눈에 심한 자극을 일으킴  
유전적인 결함을 일으킬 수 있음  
태아 또는 생식능력에 손상을 일으킬 것으로 의심됨
- 예방조치 문구  
삼켰을 시: 즉시 독성물질센터/병원 연락 필요.  
입을 씻어내시오.  
눈에 묻으면 몇 분간 물로 조심해서 씻으시오. 가능하면콘택트렌즈를 제거하십시오. 계속 씻으시오.  
긴급히(라벨 참조) 처치를 하시오.  
오염된 모든 의복은 즉시 벗고 다시 사용 전 세척하십시오.  
잠금장치가 있는 저장장소에 저장 하시오.  
현지/지역/국가/국제 규정에 따라서 내용물/용기 노출
- 기타 유해성
- PBT(잔류성, 생물농축성, 독성 물질) 및 vPvB(고 잔류성, 고 생물농축성 물질) 평가 결과
- PBT(잔류성, 생물농축성, 독성 물질): 해당사항 없음.
- vPvB(고 잔류성, 고 생물농축성 물질): 해당사항 없음.

## 3 구성성분의 명칭 및 함유량

- 화학적 특성: 화학물질
- CAS-번호표시  
51811-82-6 Giesma stain
- 식별 번호
- EC 의번호: 257-438-2

KR

(3 쪽에계속)

# 물질안전보건자료

## GHS에 따라

기압점: 2019.02.28

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(2 쪽부터계속)

### 4 응급조치 요령

#### · 응급조치요령 내용

##### · 일반적 정보:

- 이제품에 의해 오염된 의상은 즉시 제거한다.
- 반드시 오염된 의상을 완전히 제거한 후에 호흡보호기를 떼어낸다.
- 불규칙적인 호흡이나 호흡정지상태에서는 인공호흡을 실시한다.

##### · 흡입했을 때:

- 신선한 공기나 산소를 공급받고, 의료진의 도움을 구한다.
- 환자가 의식을 잃었을 경우에는 안전한 자세에서 환자를 운반한다.

##### · 피부에 접촉했을 때:

- 즉시 물과 비누로 씻고 잘 행군다.

##### · 눈에 들어갔을 때:

- 흐르는 물에 눈을 몇분동안 씻어내고 나서, 증상이 지속될 경우에는 의사와 상담한다.

##### · 먹었을 때:

- 구토를 유발시키지 않는다. 즉시 의료진의 도움을 구한다.

##### · 기타 의사의 주의사항:

- 가장 중요한 급·만성 증상 및 영향 추가적인 정보가 존재하지 않습니다.
- 즉각적인 의료처리 및 특별치료가 필요함을 시사하는 징후 추가적인 정보가 존재하지 않습니다.

### 5 폭발·화재시 대처방법

#### · 소화제

- **직접한 소화제:** 주변 환경에 맞는 화재 진화방법을 사용한다.
- **본 화학물질이나 혼합물에서 발생하는 특별 유해성** 추가적인 정보가 존재하지 않습니다.
- **소방관에 대한 권고사항**
- **화재 진압 시 착용할 보호구 및 예방조치:** 호흡보호장비설치.

### 6 누출 사고 시 대처방법

- **개인적 예방조치, 보호장비 및 응급처치 절차** 필요없음.
- **환경 관련 예방조치:** 하수도망/해수면위유출물/지하수로도달하지 않게 한다.
- **밀폐 및 정화 방법과 소재:**  
항목 13에 따라 오염된 물질을 쓰레기로 처분한다.  
충분한 환기가 되도록 한다.
- **타 섹션 참조**  
안전관리에 대한 정보는 제7장을 참고하십시오.  
개인보호장비에 대한 정보는 제8장을 참고하십시오.  
쓰레기처리에 대한 정보는 제13장을 참고하십시오.

### 7 취급 및 저장방법

#### · 취급:

##### · 안전 취급을 위한 예방조치

- 철저한 먼지 제거.
- 작업장에서는 통풍이 잘 되고 습기 제거가 잘 되게 주의한다.
- 조심스럽게 용기를 개봉하거나 취급한다.
- **화재 및 폭발 사고 예방대책에 관한 정보:** 호흡보호장비를 항상 비치한다.

##### · 혼합위험성 등 안전 저장 조건

##### · 보관:

- **안전한 저장 방법:** 특별한 요구사항이 없음.
- **하나의 공동 보관 시설에 대한 보관 관련 정보:** 필요없음
- **보관 조건에 관한 추가적인 정보:** 용기를 새지 않게 밀폐한 채 보관한다.

(4 쪽에 계속)

# 물질안전보건자료 GHS에 따라

기압점: 2019.02.28

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**제품명: GIEMSA STAIN, Certified DcGe-19**

(3 쪽부터계속)

· **구체적 최종 사용자** 추가적인 정보가 존재하지 않습니다.

## 8 노출방지 및 개인보호구

· **첨단시설 디자인에 대한 추가정보:** 더 이상 의 자료는 없음. 항목 7 을 참고하시 오.

- 통제 변수
- **화학물질의 노출기준, 생물학적 노출기준 등:** 생략
- **추 가 정보:** 제 조 할 당시에 유 효 한 목 록 을 기 초 로 사 용 했 다.

- 노출 통제
- 개인 보호구

· **일반적보호조치및위생조치:**

- 식료품, 음료수와 사료로부터 멀리 떨어져 두어 놓는다.
- 더러워지거나 음료수가 묻은 옷은 즉시 탈의한다.
- 휴식 전이나 작업이 끝날때마다 손을 씻는다.
- 방호복은 따로 보관한다.
- 눈과 피부와의 접촉을 피한다.

· **호흡기 보호:**

단 시간 또는 경미한 오염의 경우에는 호흡여과기를 사용한다. 심각한 또는 장기간 노출시에는 호흡보호장비를 사용한다.

· **손 보호:**



보호용 장갑

장갑재질은제품 / 원료 / 조제를투과시키지않아야하고, 내구성이있어야한다.  
테스트를 하지 않았기 때문에 제품 / 조제 / 화학 혼합물에 적합한 장갑재질에 대한 추천이 없다.  
투과 시간, 침투율과 저하를 고려해서 장갑 재료를 선택한다.

· **장갑의재료**

적합한장갑의선택은재질차이뿐아니라품질기준의차이도고려하여이루어져야하고제조업자에따라서도다르게선정되어야한다.

· **장갑재료의투과시간** 정확한관통시간은보호장갑제조자에의하여인지되고, 준수되어야한다.

· **눈 보호:**



팩조이는보안경

## 9 물리화학적 특성

· **기본 물리 및 화학적 특성에 대한 정보**

- 일반정보
- 외형

- 물리적 상태: 수정가루
- 색: 짙은초록
- 냄새: 무취의
- 후각역치: 알맞지않다.

· pH: 해당사항 없음.

(5 쪽에계속)



# 물질안전보건자료

## GHS에 따라

기압점: 2019.02.28

개정: 2019.02.28

**제품명: GIEMSA STAIN, Certified DcGe-19**

(4 쪽부터계속)

· 상태변화 녹는점/어는점: 300 °C 초기 끓는점과 끓는점 범위: 442.8 °C	
· 인화점: 221 °C	
· 인화성(고체, 기체):	이 제품은 가연성이 없다. 알맞지 않다. 해당사항 없음.
· 분해 온도:	알맞지 않다.
· 자기점화:	알맞지 않다.
· 폭발위험:	이 제품은 폭발위험성이 없다
· 인화 또는 폭발 범위의 상한/하한 아래로:	알맞지 않다.
위로:	알맞지 않다.
· 증기압:	해당사항 없음.
· 밀도 의경우 20 °C:	0.99 g/cm <sup>3</sup>
· 비중:	알맞지 않다.
· 증기밀도:	해당사항 없음.
· 증발 속도:	해당사항 없음.
· 용해도: 물:	불용해성의
· n 옥탄올/물 분배계수:	알맞지 않다.
· 점도: 역학성:	해당사항 없음.
등점성:	해당사항 없음.
· 용매내용물 VOC (EU)	0.00 %
· 고체의 함량:	100.0 %
· 기타 정보	추가적인 정보가 존재하지 않습니다.

### 10 안정성 및 반응성

- 반응성 추가적인 정보가 존재하지 않습니다.
- 화학적 안정성
- 화학적 안정성 및 유해 반응의 가능성 / 피해야 할 조건: 규정에따라사용할경우해체는없다
- 유해반응 가능성 위험한반응으로는알려지지않았다.
- 피해야 할 조건 추가적인 정보가 존재하지 않습니다.
- 혼합 금지 물질: 추가적인 정보가 존재하지 않습니다.
- 유해분해물질: 위험성있는분해물들은알려지지않았다.

KR

(6 쪽에계속)

# 물질안전보건자료

## GHS에 따라

기압점: 2019.02.28

개정: 2019.02.28

**제품명: GIEMSA STAIN, Certified DcGe-19**

(5 쪽부터계속)

### 11 독성에 관한 정보

- 독성학적 영향에 대한 정보
- 급성 독성:
- 일차적 자극 효과:
- 피부 부식성 또는 자극성: 피부와점막을자극한다.
- 심한 눈 손상 또는 자극성: 자극
- 감각화: 민감한영향이없는것으로알려져있다.
- 다음 종류의 잠재적인 효과에 대한 정보
- CMR-효과 (암 유발, 돌연변이성 그리고 생식 독성)  
생식세포 변이원성 - 구분 1A, 생식독성 - 구분 2

### 12 환경에 미치는 영향

- 독성
- 수생독성: 추가적인 정보가 존재하지 않습니다.
- 지속성 및 분해성 추가적인 정보가 존재하지 않습니다.
- 환경 시스템에서의 행동:
- 생물농축 잠재성 추가적인 정보가 존재하지 않습니다.
- 토양내 이동성 추가적인 정보가 존재하지 않습니다.
- 추가적인 생태학 정보:
- 일반 특징:  
수질오염등급 3 (자체등급분류): 심하게수질오염이된 지하수나, 하천으로또는하수도망에도달하지않게한다. 역시극소수의양이라도안된다. 지하수로아주미세한양이유입되었을경우엔이미식수오염상태이다
- PBT(잔류성, 생물농축성, 독성 물질) 및 vPvB(고 잔류성, 고 생물농축성 물질) 평가 결과
- PBT(잔류성, 생물농축성, 독성 물질): 해당사항 없음.
- vPvB(고 잔류성, 고 생물농축성 물질): 해당사항 없음.
- 기타 부작용 추가적인 정보가 존재하지 않습니다.

### 13 폐기시 주의사항

- 폐기물 처리 방법
- 권고: 생활쓰레기와함께처리되어서는안된다. 하수도망으로유입되어서는안된다.
- 비위생적 포장:
- 권고: 당국의지침에입각한쓰레기처리.

### 14 운송에 필요한 정보

<ul style="list-style-type: none"> <li>· 유엔 번호</li> <li>· ADR, IMDG, IATA</li> </ul>	UN3243
<ul style="list-style-type: none"> <li>· UN 적정 선적명</li> <li>· ADR</li> <li>· IMDG, IATA</li> </ul>	3243 SOLIDS CONTAINING TOXIC LIQUID, N.O.S. SOLIDS CONTAINING TOXIC LIQUID, N.O.S.

(7 쪽에계속)


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(6 쪽부터계속)

<ul style="list-style-type: none"> <li>· 교통 위험 클래스</li> <li>· ADR, IMDG, IATA</li> </ul>	
	
<ul style="list-style-type: none"> <li>· 등급</li> <li>· 위험물 라벨</li> </ul>	6.1 독성물질 6.1
<ul style="list-style-type: none"> <li>· 용기등급</li> <li>· ADR, IMDG, IATA</li> </ul>	II
<ul style="list-style-type: none"> <li>· 환경적 유해물질:</li> </ul>	해당사항 없음.
<ul style="list-style-type: none"> <li>· 이용자 특별 예방조치</li> <li>· 위험 코드:</li> <li>· EMS-번호:</li> <li>· Stowage Category</li> <li>· Stowage Code</li> </ul>	경고: 독성물질 60 F-A,S-A B SW2 Clear of living quarters.
<ul style="list-style-type: none"> <li>· MARPOL73/78(선박으로부터의 해양오염방지협약) 부속서2 및 IBC Code(국제선적화물코드)에 따른 벌크(bulk) 운송</li> </ul>	해당사항 없음.
<ul style="list-style-type: none"> <li>· 운 송/추가 정보:</li> </ul>	
<ul style="list-style-type: none"> <li>· ADR</li> <li>· 한정 수량 (LQ)</li> <li>· Excepted quantities (EQ)</li> </ul>	500 g Code: E4 Maximum net quantity per inner packaging: 1 g Maximum net quantity per outer packaging: 500 g
<ul style="list-style-type: none"> <li>· 운송 구분</li> <li>· 터널 제한 코드</li> </ul>	2 D/E
<ul style="list-style-type: none"> <li>· IMDG</li> <li>· Limited quantities (LQ)</li> <li>· Excepted quantities (EQ)</li> </ul>	500 g Code: E4 Maximum net quantity per inner packaging: 1 g Maximum net quantity per outer packaging: 500 g
<ul style="list-style-type: none"> <li>· UN "모범 규제":</li> </ul>	UN 3243 SOLIDS CONTAINING TOXIC LIQUID, N.O.S., 6.1, II

## 15 법적 규제현황

<ul style="list-style-type: none"> <li>· 산업안전보건법에 의한 규제:</li> </ul>	
<ul style="list-style-type: none"> <li>· 제조 등 금지물질:</li> </ul>	성분이포함되어있지않다
<ul style="list-style-type: none"> <li>· 허가대상물질:</li> </ul>	성분이포함되어있지않다
<ul style="list-style-type: none"> <li>· 관리대상유해물질:</li> </ul>	성분이포함되어있지않다

(8 쪽에계속)

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(7 쪽부터계속)

- 해당 순물질 또는 혼합물에 대한 안전, 보건 및 환경 규제/법률
- 화학물질관리법

**· 사고대비물질**

성분이포함되어있지않다

**· 금지물질**

성분이포함되어있지않다

**· 제한물질**

성분이포함되어있지않다

**· 유독물질**

성분이포함되어있지않다

**· 허가물질**

성분이포함되어있지않다

**· GHS 라벨 요소**

본 화학물질은 화학물질의 분류 및 표기에 관한 국제조화시스템(GHS)에 따라 분류 및 표기되었습니다.

**· 그림문자**



GHS06 GHS08

**· 신호어 위험**

**· 상표상에명확히위험성이표시된성분:**

Giesma stain

**· 유해.위험 문구**

- 삼키거나 흡입하면 치명적임.
- 피부와 접촉하면 유독함
- 피부에 자극을 일으킴
- 눈에 심한 자극을 일으킴
- 유전적인 결함을 일으킬 수 있음
- 태아 또는 생식능력에 손상을 일으킬 것으로 의심됨

**· 예방조치 문구**

- 삼켰을 시: 즉시 독성물질센터/병원 연락 필요.
- 입을 씻어내시오.
- 눈에 물으면 몇 분간 물로 조심해서 씻으시오. 가능하면콘택트렌즈를 제거하시오. 계속 씻으시오.
- 긴급히(라벨 참조) 처치를 하시오.
- 오염된 모든 의복은 즉시 벗고 다시 사용 전 세척하시오.
- 잠금장치가 있는 저장장소에 저장하시오.
- 현지/지역/국가/국제 규정에 따라서 내용물/용기 노출

**· 화학물질 안전성 평가: 화학물질 안전성 평가가 수행되지 않음**

### 16 그 밖의 참고사항

이보고는우리지식에대한오늘날의상태에대하여평가하고있다, 하지만이보고서는생산특성에관한보증은 기술하지않았으며계약적인법률관계에기반을두고있지도않다

- **최초 작성일자:** 2019.02.28
- **개정 횟수 및 최종 개정일자:** 1 / 2019.02.28
- **약어와 두문자어:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 IMDG: International Maritime Code for Dangerous Goods

(9 쪽에계속)

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(8 쪽부터계속)

IATA: International Air Transport Association  
EINECS: European Inventory of Existing Commercial Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
VOC: Volatile Organic Compounds (USA, EU)  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative

KR

# Ficha de datos de seguridad

## según 1907/2006/CE, Artículo 31

fecha de impresión 28.02.2019

Revisión: 28.02.2019

### SECCIÓN 1: Identificación de la sustancia o la mezcla y de la sociedad o la empresa

#### · 1.1 Identificador del producto

· **Nombre comercial:** GIEMSA STAIN, Certified DcGe-19

· **Número del artículo:** 15942

· **Número CAS:**

51811-82-6

· **Número CE:**

257-438-2

· **1.2 Usos pertinentes identificados de la sustancia o de la mezcla y usos desaconsejados**

No existen más datos relevantes disponibles.

· **Utilización del producto / de la elaboración** Sustancias químicas de laboratorio

· **1.3 Datos del proveedor de la ficha de datos de seguridad**

· **Fabricante/distribuidor:**

Electron Microscopy Sciences

1560 Industry Road

USA-Hatfield, PA 19440

Tel: 215-412-8400 Fax: 215-412-8450

email: sgkcck@aol.com

www.emsdiasum.com

Aname

C/ Perez Galdos no. 2

28693 Quijorna

Madrid, Spain

Tel: +34.91.816.89.50

Fax: +34.91.816.85.94

email: ventas@aname.es

· **Área de información:** Product safety department

· **1.4 Teléfono de emergencia:**

ChemTrec 1-800-424-9300 Contract CCN7661

1-703-527-3887

### SECCIÓN 2: Identificación de los peligros

· **2.1 Clasificación de la sustancia o de la mezcla**

· **Clasificación con arreglo al Reglamento (CE) n° 1272/2008**



GHS06 calavera y tibias cruzadas

Acute Tox. 3 H301 Tóxico en caso de ingestión.

Acute Tox. 2 H330 Mortal en caso de inhalación.



GHS08 peligro para la salud

Muta. 1A H340 Puede provocar defectos genéticos.

Repr. 2 H361 Se sospecha que puede perjudicar la fertilidad o dañar el feto.



GHS07

Acute Tox. 4 H312 Nocivo en contacto con la piel.

( se continua en página 2 )

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## según 1907/2006/CE, Artículo 31

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( se continua en página 1 )

*Skin Irrit. 2 H315 Provoca irritación cutánea.*

*Eye Irrit. 2 H319 Provoca irritación ocular grave.*

· **2.2 Elementos de la etiqueta**

· **Etiquetado con arreglo al Reglamento (CE) n° 1272/2008**

*La sustancia se ha clasificado y etiquetado de conformidad con el reglamento CLP.*

· **Pictogramas de peligro**



GHS06 GHS08

· **Palabra de advertencia Peligro**

· **Componentes peligrosos a indicar en el etiquetaje:**

*Giesma stain*

· **Indicaciones de peligro**

*H301 Tóxico en caso de ingestión.*

*H312 Nocivo en contacto con la piel.*

*H330 Mortal en caso de inhalación.*

*H315 Provoca irritación cutánea.*

*H319 Provoca irritación ocular grave.*

*H340 Puede provocar defectos genéticos.*

*H361 Se sospecha que puede perjudicar la fertilidad o dañar el feto.*

· **Consejos de prudencia**

*P301+P310 EN CASO DE INGESTIÓN: Llamar inmediatamente a un CENTRO DE TOXICOLOGÍA/médico.*

*P330 Enjuagarse la boca.*

*P305+P351+P338 EN CASO DE CONTACTO CON LOS OJOS: Aclarar cuidadosamente con agua durante varios minutos. Quitar las lentes de contacto, si lleva y resulta fácil. Seguir aclarando.*

*P320 Se necesita urgentemente un tratamiento específico (ver en esta etiqueta).*

*P362+P364 Quitar las prendas contaminadas y lavarlas antes de volver a usarlas.*

*P405 Guardar bajo llave.*

*P501 Eliminar el contenido o el recipiente conforme a la reglamentación local/regional/nacional/internacional.*

· **2.3 Otros peligros**

· **Resultados de la valoración PBT y mPmB**

· **PBT:** No aplicable.

· **mPmB:** No aplicable.

### SECCIÓN 3: Composición/información sobre los componentes

· **3.1 Caracterización química: Sustancias**

· **Denominación N° CAS**

*51811-82-6 Giesma stain*

· **Número(s) de identificación**

· **Número CE:** 257-438-2

ES

( se continua en página 3 )

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( se continua en página 2 )

### SECCIÓN 4: Primeros auxilios

- **4.1 Descripción de los primeros auxilios**
- **Instrucciones generales:**
  - *Quitarse de inmediato toda prenda contaminada con el producto.*
  - *Antes de quitarse la protección respiratoria, quítese la ropa contaminada.*
  - *En caso de respiración irregular o apnea (paro respiratorio), hágase la respiración artificial.*
- **En caso de inhalación del producto:**
  - *Suministrar aire fresco u oxígeno; solicitar ayuda médica.*
  - *Las personas desmayadas deben tenderse y transportarse de lado con la suficiente estabilidad.*
- **En caso de contacto con la piel:** *Lavar inmediatamente con agua y jabón y enjuagar bien.*
- **En caso de con los ojos:**
  - *Limpiar los ojos abiertos durante varios minutos con agua corriente. En caso de trastornos persistentes consultar un médico.*
- **En caso de ingestión:** *No provocar el vómito y solicitar asistencia médica inmediata.*
- **4.2 Principales síntomas y efectos, agudos y retardados** *No existen más datos relevantes disponibles.*
- **4.3 Indicación de toda atención médica y de los tratamientos especiales que deban dispensarse inmediatamente** *No existen más datos relevantes disponibles.*

### SECCIÓN 5: Medidas de lucha contra incendios

- **5.1 Medios de extinción**
- **Sustancias extintoras apropiadas:** *Combatir los incendios con medidas adaptados al ambiente circundante.*
- **5.2 Peligros específicos derivados de la sustancia o la mezcla** *No existen más datos relevantes disponibles.*
- **5.3 Recomendaciones para el personal de lucha contra incendios**
- **Equipo especial de protección:** *Colocarse la protección respiratoria.*

### SECCIÓN 6: Medidas en caso de vertido accidental

- **6.1 Precauciones personales, equipo de protección y procedimientos de emergencia** *No es necesario.*
- **6.2 Precauciones relativas al medio ambiente:**
  - *Evitar que penetre en la canalización /aguas de superficie /agua subterráneas.*
- **6.3 Métodos y material de contención y de limpieza:**
  - *Desechar el material contaminado como vertido según ítem 13.*
  - *Asegurar suficiente ventilación.*
- **6.4 Referencia a otras secciones**
  - *Ver capítulo 7 para mayor información sobre una manipulación segura.*
  - *Ver capítulo 8 para mayor información sobre el equipo personal de protección.*
  - *Para mayor información sobre cómo desechar el producto, ver capítulo 13.*

### SECCIÓN 7: Manipulación y almacenamiento

- **7.1 Precauciones para una manipulación segura**
  - *Desempolvar cuidadosamente.*
  - *Asegurar suficiente ventilación /aspiración en el puesto de trabajo.*
  - *Abrir y manejar el recipiente con cuidado.*
- **Prevención de incendios y explosiones:** *Tener preparados los aparatos respiratorios.*
- **7.2 Condiciones de almacenamiento seguro, incluidas posibles incompatibilidades**
- **Almacenamiento:**
  - **Exigencias con respecto al almacén y los recipientes:** *No se requieren medidas especiales.*
  - **Normas en caso de un almacenamiento conjunto:** *No es necesario.*

( se continua en página 4 )



# Ficha de datos de seguridad

## según 1907/2006/CE, Artículo 31

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( se continua en página 3 )

- **Indicaciones adicionales sobre las condiciones de almacenamiento:**  
Mantener el recipiente cerrado herméticamente.
- **7.3 Usos específicos finales** No existen más datos relevantes disponibles.

### SECCIÓN 8: Controles de exposición/protección individual

- **Instrucciones adicionales para el acondicionamiento de instalaciones técnicas:**  
Sin datos adicionales, ver punto 7.
- **8.1 Parámetros de control**
- **Componentes con valores límite admisibles que deben controlarse en el puesto de trabajo:** Nulo.
- **Indicaciones adicionales:** Como base se han utilizado las listas vigentes en el momento de la elaboración.
- **8.2 Controles de la exposición**
- **Equipo de protección individual:**
- **Medidas generales de protección e higiene:**  
Mantener alejado de alimentos, bebidas y alimentos para animales.  
Quitarse de inmediato la ropa ensuciada o impregnada.  
Lavarse las manos antes de las pausas y al final del trabajo.  
Guardar la ropa protectora por separado.  
Evitar el contacto con los ojos y la piel.
- **Protección respiratoria:**  
Si la exposición va a ser breve o de poca intensidad, colocarse una máscara respiratoria. Para una exposición más intensa o de mayor duración, usar un aparato de respiración autónomo.
- **Protección de manos:**



Guantes de protección

- El material del guante deberá ser impermeable y resistente al producto / sustancia / preparado.  
Ante la ausencia de tests específicos, no se puede recomendar ningún material específico para guantes de protección contra el producto / preparado / mezcla de sustancias químicas.  
Selección del material de los guantes en función de los tiempos de rotura, grado de permeabilidad y degradación.
- **Material de los guantes**  
La elección del guante adecuado no depende únicamente del material, sino también de otras características de calidad, que pueden variar de un fabricante a otro.
- **Tiempo de penetración del material de los guantes**  
El tiempo de resistencia a la penetración exacto deberá ser pedido al fabricante de los guantes. Este tiempo debe ser respetado.
- **Protección de ojos:**



Gafas de protección herméticas

### SECCIÓN 9: Propiedades físicas y químicas

- **9.1 Información sobre propiedades físicas y químicas básicas**
- **Datos generales**
- **Aspecto:**

**Forma:**

Polvo cristalino

( se continua en página 5 )

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( se continua en página 4 )

<b>Color:</b>	Verde oscuro
· <b>Olor:</b>	Inodoro
· <b>Umbral olfativo:</b>	No determinado.
· <b>valor pH:</b>	No aplicable.
· <b>Cambio de estado</b>	
<b>Punto de fusión/punto de congelación:</b>	300 °C
<b>Punto inicial de ebullición e intervalo de ebullición:</b>	442,8 °C
· <b>Punto de inflamación:</b>	221 °C
· <b>Inflamabilidad (sólido, gas):</b>	La sustancia no es inflamable. No determinado. No aplicable.
· <b>Temperatura de descomposición:</b>	No determinado.
· <b>Temperatura de auto-inflamación:</b>	No determinado.
· <b>Propiedades explosivas:</b>	El producto no es explosivo.
· <b>Límites de explosión:</b>	
<b>Inferior:</b>	No determinado.
<b>Superior:</b>	No determinado.
· <b>Presión de vapor:</b>	No aplicable.
· <b>Densidad a 20 °C:</b>	0,99 g/cm <sup>3</sup>
· <b>Densidad relativa</b>	No determinado.
· <b>Densidad de vapor</b>	No aplicable.
· <b>Tasa de evaporación:</b>	No aplicable.
· <b>Solubilidad en / miscibilidad con agua:</b>	Insoluble.
· <b>Coefficiente de reparto: n-octanol/agua:</b>	No determinado.
· <b>Viscosidad:</b>	
<b>Dinámica:</b>	No aplicable.
<b>Cinemática:</b>	No aplicable.
· <b>Concentración del disolvente:</b>	
<b>VOC (CE)</b>	0,00 %
<b>Contenido de cuerpos sólidos:</b>	100,0 %
· <b>9.2 Otros datos</b>	No existen más datos relevantes disponibles.

### SECCIÓN 10: Estabilidad y reactividad

- **10.1 Reactividad** No existen más datos relevantes disponibles.
- **10.2 Estabilidad química**
- **Descomposición térmica / condiciones que deben evitarse:** No se descompone al emplearse adecuadamente.
- **10.3 Posibilidad de reacciones peligrosas** No se conocen reacciones peligrosas.
- **10.4 Condiciones que deben evitarse** No existen más datos relevantes disponibles.
- **10.5 Materiales incompatibles:** No existen más datos relevantes disponibles.
- **10.6 Productos de descomposición peligrosos:** No se conocen productos de descomposición peligrosos.

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( se continua en página 6 )

# Ficha de datos de seguridad

## según 1907/2006/CE, Artículo 31

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Nombre comercial: **GIEMSA STAIN, Certified DcGe-19**

( se continua en página 5 )

### SECCIÓN 11: Información toxicológica

- **11.1 Información sobre los efectos toxicológicos**
- **Toxicidad aguda**  
Tóxico en caso de ingestión.  
Nocivo en contacto con la piel.  
Mortal en caso de inhalación.
- **Efecto estimulante primario:**
- **Corrosión o irritación cutáneas**  
Provoca irritación cutánea.
- **Lesiones o irritación ocular graves**  
Provoca irritación ocular grave.
- **Sensibilización respiratoria o cutánea**  
A la vista de los datos disponibles, no se cumplen los criterios de clasificación.
- **Efectos CMR (carcinogenicidad, mutagenicidad y toxicidad para la reproducción)**
- **Mutagenicidad en células germinales**  
Puede provocar defectos genéticos.
- **Carcinogenicidad** A la vista de los datos disponibles, no se cumplen los criterios de clasificación.
- **Toxicidad para la reproducción**  
Se sospecha que puede perjudicar la fertilidad o dañar el feto.
- **Toxicidad específica en determinados órganos (STOT) – exposición única**  
A la vista de los datos disponibles, no se cumplen los criterios de clasificación.
- **Toxicidad específica en determinados órganos (STOT) – exposición repetida**  
A la vista de los datos disponibles, no se cumplen los criterios de clasificación.
- **Peligro de aspiración** A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

### SECCIÓN 12: Información ecológica

- **12.1 Toxicidad**
- **Toxicidad acuática:** No existen más datos relevantes disponibles.
- **12.2 Persistencia y degradabilidad** No existen más datos relevantes disponibles.
- **12.3 Potencial de bioacumulación** No existen más datos relevantes disponibles.
- **12.4 Movilidad en el suelo** No existen más datos relevantes disponibles.
- **Indicaciones medioambientales adicionales:**
- **Indicaciones generales:**  
Nivel de riesgo para el agua 3 (autoclasiificación): muy peligroso para el agua  
No dejar que se infiltre en aguas subterráneas, aguas superficiales o en alcantarillados, ni siquiera en pequeñas cantidades.  
Una cantidad ínfima vertida en el subsuelo ya representa un peligro para el agua potable.
- **12.5 Resultados de la valoración PBT y mPmB**
- **PBT:** No aplicable.
- **mPmB:** No aplicable.
- **12.6 Otros efectos adversos** No existen más datos relevantes disponibles.

### SECCIÓN 13: Consideraciones relativas a la eliminación

- **13.1 Métodos para el tratamiento de residuos**
- **Recomendación:** No debe desecharse con la basura doméstica. No debe llegar al alcantarillado.

( se continua en página 7 )

# Ficha de datos de seguridad

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( se continua en página 6 )

- **Embalajes sin limpiar:**
- **Recomendación:** Eliminar conforme a las disposiciones oficiales.

### SECCIÓN 14: Información relativa al transporte

<ul style="list-style-type: none"> <li>· <b>14.1 Número ONU</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>	<p style="text-align: right;">UN3243</p>
<ul style="list-style-type: none"> <li>· <b>14.2 Designación oficial de transporte de las Naciones Unidas</b></li> <li>· <b>ADR</b></li> <li>· <b>IMDG, IATA</b></li> </ul>	<p style="text-align: right;">3243 SÓLIDOS QUE CONTIENEN LÍQUIDO TÓXICO, N.E.P. SOLIDS CONTAINING TOXIC LIQUID, N.O.S.</p>
<ul style="list-style-type: none"> <li>· <b>14.3 Clase(s) de peligro para el transporte</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>	<p style="text-align: right;">6.1 Materias tóxicas 6.1</p>
<div style="text-align: center;">  </div> <ul style="list-style-type: none"> <li>· <b>Clase</b></li> <li>· <b>Etiqueta</b></li> </ul>	<p style="text-align: right;">6.1 Materias tóxicas 6.1</p>
<ul style="list-style-type: none"> <li>· <b>14.4 Grupo de embalaje</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>	<p style="text-align: right;">II</p>
<ul style="list-style-type: none"> <li>· <b>14.5 Peligros para el medio ambiente:</b></li> </ul>	<p style="text-align: right;">No aplicable.</p>
<ul style="list-style-type: none"> <li>· <b>14.6 Precauciones particulares para los usuarios</b></li> <li>· <b>Número Kemler:</b></li> <li>· <b>Número EMS:</b></li> <li>· <b>Stowage Category</b></li> <li>· <b>Stowage Code</b></li> </ul>	<p style="text-align: right;">Atención: Materias tóxicas 60 F-A,S-A B SW2 Clear of living quarters.</p>
<ul style="list-style-type: none"> <li>· <b>14.7 Transporte a granel con arreglo al anexo II del Convenio MARPOL y el Código IBC</b></li> </ul>	<p style="text-align: right;">No aplicable.</p>
<ul style="list-style-type: none"> <li>· <b>Transporte/datos adicionales:</b></li> </ul>	
<ul style="list-style-type: none"> <li>· <b>ADR</b></li> <li>· <b>Cantidades limitadas (LQ)</b></li> <li>· <b>Cantidades exceptuadas (EQ)</b></li> <li>· <b>Categoría de transporte</b></li> <li>· <b>Código de restricción del túnel</b></li> </ul>	<p style="text-align: right;">500 g Código: E4 Cantidad neta máxima por envase interior: 1 g Cantidad neta máxima por embalaje exterior: 500 g 2 D/E</p>
<ul style="list-style-type: none"> <li>· <b>IMDG</b></li> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Excepted quantities (EQ)</b></li> </ul>	<p style="text-align: right;">500 g Code: E4 Maximum net quantity per inner packaging: 1 g Maximum net quantity per outer packaging: 500 g</p>

( se continua en página 8 )

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( se continua en página 7 )

· "Reglamentación Modelo" de la UNECE: UN 3243 SÓLIDOS QUE CONTIENEN LÍQUIDO TÓXICO, N.E.P., 6.1, II

### SECCIÓN 15: Información reglamentaria

- **15.1 Reglamentación y legislación en materia de seguridad, salud y medio ambiente específicas para la sustancia o la mezcla**
- Directiva 2012/18/UE
- Sustancias peligrosas nominadas - ANEXO I No contiene la sustancia.
- Categoría Seveso H2 TOXICIDAD AGUDA
- Cantidad umbral (toneladas) a efectos de aplicación de los requisitos de nivel inferior 50 t
- Cantidad umbral (toneladas) a efectos de aplicación de los requisitos de nivel superior 200 t
- **15.2 Evaluación de la seguridad química:** Una evaluación de la seguridad química no se ha llevado a cabo.

### SECCIÓN 16: Otra información

Los datos se fundan en el estado actual de nuestros conocimientos, pero no constituyen garantía alguna de cualidades del producto y no generan ninguna relación jurídica contractual.

· **Abreviaturas y acrónimos:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 3: Toxicidad aguda – Categoría 3

Acute Tox. 4: Toxicidad aguda – Categoría 4

Acute Tox. 2: Toxicidad aguda – Categoría 2

Skin Irrit. 2: Corrosión o irritación cutáneas – Categoría 2

Eye Irrit. 2: Lesiones oculares graves o irritación ocular – Categoría 2

Muta. 1A: Mutagenicidad en células germinales – Categoría 1A

Repr. 2: Toxicidad para la reproducción – Categoría 2