Printing date 02/03/2023 Reviewed on 02/03/2023

### 1 Identification

- · Product identifier
- · Trade name: pH-Fix Universal Indicator Sticks
- · Article number:

65510-10, 65510-15, 65510-18, 65510-20, 65510-25, 65510-30, 65510-35, 65510-40, 65510-45, 65510-50, 65510-55, 65510-60

- · 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

The product is not classified, according to the Globally Harmonized System (GHS).

- · Label elements
- · GHS label elements Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 0Fire = 0Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Fire = 0

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

### 3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · **Description:** Mixture of the substances listed below with nonhazardous additions.

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Trade name: pH-Fix Universal Indicator Sticks

	(Contd. of page 1)
· Dangerous components:	
9002-86-2 polyvinyl chlor	ride >50-≤100%
9004-34-6 Cellulose	>2.5-≤10%

### 4 First-aid measures

- · Description of first aid measures
- · General information: No special measures required.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Generally the product does not irritate the skin.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.
- · 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: No special measures required.

#### 6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- $\cdot \textit{Environmental precautions:} \ \textit{Do not allow to enter sewers/ surface or ground water.}$
- · Methods and material for containment and cleaning up: Pick up mechanically.
- · 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.

· Protective Action Criteria for Chemicals

· PAC-1:	
9002-86-2 polyvinyl chloride	3 mg/m <sup>3</sup>
· PAC-2:	
9002-86-2 polyvinyl chloride	33 mg/m <sup>3</sup>
· PAC-3:	
9002-86-2 polyvinyl chloride	200 mg/m³

## 7 Handling and storage

- · Handling:
- · Precautions for safe handling No special measures required.
- · Information about protection against explosions and fires: No special measures required.

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(Contd. of page 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: None.
- · 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:

#### 9002-86-2 polyvinyl chloride

TLV Long-term value: 1\* mg/m³
\*as respirable fraction, A4

#### 9004-34-6 Cellulose

PEL Long-term value: 15\* 5\*\* mg/m³
\*total dust \*\*respirable fraction

REL Long-term value: 10\* 5\*\* mg/m³
\*total dust \*\*respirable fraction

TLV Long-term value: 10 mg/m³

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

- · Breathing equipment: Not required.
- · Protection of hands:

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· 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: Not required.

### 9 Physical and chemical properties

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

Form: Solid

Color: According to product specification

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Odor threshold:  PH-value:  Not applicable.  Change in condition Melting point/Melting range: Boiling point/Boiling range: Undetermined. Undetermined. Undetermined. Undetermined. Undetermined. Undetermined. Undetermined.  Flash point:  Not applicable.  Flammability (solid, gaseous): Not determined.  Ignition temperature: Not determined.  Auto igniting: Product is not selfigniting.  Danger of explosion: Explosion limits: Lower: Upper: Not determined. Vapor pressure: Not applicable.  Density: Not determined. Relative density Not determined. Vapor density Not applicable.  Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water): Not applicable.  Solubility in / Miscibility with Water: Not applicable.  Solvent content: VOC content: VOC content: VOC content:  VOC content:  VOC content:  100.0 %			(Contd. of page 3
Ph-value: Not applicable.  Change in condition Melting point/Melting range: Undetermined. Boiling point/Boiling range: Undetermined. Flash point: Not applicable.  Flammability (solid, gaseous): Not determined.  Ignition temperature: 340 °C (644 °F)  Decomposition temperature: Not determined.  Auto igniting: Product is not selfigniting.  Danger of explosion: Product does not present an explosion hazard.  Explosion limits: Lower: Not determined. Upper: Not determined. Vapor pressure: Not applicable.  Density: Not determined. 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: Not applicable. Solubility in / Miscibility with Water: Not applicable. Kinematic: Not applicable. Solvent content: VOC content: O.00 %  Solids content: 100.0 %	· Odor:		
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Vapor density Evaporation rate Not applicable.  Solubility in / Miscibility with Water: Insoluble.  Partition coefficient (n-octanol/water): Not determined.  Viscosity: Dynamic: Kinematic: Not applicable. Not applicable. Solvent content: VOC content: 0.00 %  Solids content: 100.0 %	Density:	Not determined.	
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Water: Insoluble.  Partition coefficient (n-octanol/water): Not determined.  Viscosity: Dynamic: Not applicable. Kinematic: Not applicable.  Solvent content: VOC content: 0.00 %  Solids content: 100.0 %	Solubility in / Miscibility with		
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Dynamic: Not applicable. Kinematic: Not applicable.  Solvent content: VOC content: 0.00 %  Solids content: 100.0 %	Partition coefficient (n-octanol/wat	t <b>er</b> ): Not determined.	
Kinematic: Not applicable.  Solvent content: 0.00 %  Solids content: 100.0 %	· Viscosity:		
Solvent content: VOC content: 0.00 %  Solids content: 100.0 %	•		
VOC content:         0.00 %           Solids content:         100.0 %	Kinematic:	Not applicable.	
Solids content: 100.0 %	· Solvent content:		
	VOC content:	0.00 %	
Other information No further relevant information available.	Solids content:	100.0 %	
	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.

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### 11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- Primary irritant effect:
- · on the skin: No irritant effect.
- · on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

9002-86-2 polyvinyl chloride

3

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety Health Administration)

None of the ingredients is 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 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · 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: Smaller quantities can be disposed of with household waste.
- · Uncleaned packagings:
- · **Recommendation:** Disposal must be made according to official regulations.

US

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UN-Number	
DOT, ADR, IMDG, IATA	Void
UN proper shipping name DOT, ADR, IMDG, IATA	Void
Transport hazard class(es)	
DOT, ADR, ADN, IMDG, IATA	
Class	Void
Packing group	
DOT, ADR, IMDG, IATA	Void
Environmental hazards:	Not applicable.
Special precautions for user	Not applicable.
Transport in bulk according to Annex II	of
MARPOL73/78 and the IBC Code	Not applicable.
UN "Model Regulation":	Void

### 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
- · Sara
- · Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

All components have the value ACTIVE.

· Hazardous Air Pollutants

None of the ingredients is listed.

- · Proposition 65
- · Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

- · Carcinogenic categories
- · EPA (Environmental Protection Agency)

None of the ingredients is listed.

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(Contd. of page 6)

#### · TLV (Threshold Limit Value)

9002-86-2 polyvinyl chloride

*A4* 

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

None of the ingredients is listed.

- · GHS label elements Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · 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.

- · Contact:
- · Date of preparation / last revision 02/03/2023
- · Abbreviations and acronyms:

ADR: Accord relatif au transport international 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

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified 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

US