Printing date 02/28/2023

Reviewed on 02/28/2023

1 Identification

- · Product identifier
- Trade name: <u>ANTI-FOG/STATIC LENS CLEANER</u>
- · Article number: 74314-04
- · 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 <u>CCN7661</u> 1-703-527-3887

2 *Hazard(s) identification*

· Classification of the substance or mixture



Flammable Liquids 3 H226 Flammable liquid and vapor.

- · Label elements
- · GHS label elements
- The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms



- · Signal word Warning
- · Hazard statements
- Flammable liquid and vapor.
- · Precautionary statements
- Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- Keep container tightly closed.
- Ground/bond container and receiving equipment.
- Use explosion-proof electrical/ventilating/lighting/equipment.
- Use only non-sparking tools.
- Take precautionary measures against static discharge.
- Wear protective gloves/protective clothing/eye protection/face protection.
- If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- In case of fire: Use CO2, powder or water spray to extinguish.
- Store in a well-ventilated place. Keep cool.

(Contd. on page 2)

Printing date 02/28/2023

Reviewed on 02/28/2023

Trade name: ANTI-FOG/STATIC LENS CLEANER

- (Contd. of page 1) Dispose of contents/container in accordance with local/regional/national/international regulations. • Classification system:
- NFPA ratings (scale 0 4)

Health = 0Fire = 3 Reactivity = 0

· HMIS-ratings (scale 0 - 4)

HEALTH 0	Health = 0
FIRE 3	Fire = 3
REACTIVITY 0	Reactivity = 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.
- · Dangerous components:

67-63-0 propan-2-ol

>2.5-*≤*10%

4 First-aid measures

· Description of first aid measures

• General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

• After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

- · 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:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

(Contd. on page 3)

US

(Contd. of page 2)

Safety Data Sheet acc. to OSHA HCS

Printing date 02/28/2023

Reviewed on 02/28/2023

Trade name: ANTI-FOG/STATIC LENS CLEANER

- 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 Wear protective equipment. Keep unprotected persons away.
- · Environmental precautions:
- Dilute with plenty of water.
- Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). 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.
- Protective Action Criteria for Chemicals

· PAC-1:	
67-63-0 propan-2-ol	400 ppm
· PAC-2:	
67-63-0 propan-2-ol	2000* ppm
· PAC-3:	
67-63-0 propan-2-ol	12000** ppm

7 Handling and storage

- · Handling:
- · Precautions for safe handling
- Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
- · Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.
- Protect against electrostatic charges.
- · 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.

(Contd. on page 4)

US

Printing date 02/28/2023

Reviewed on 02/28/2023

Trade name: ANTI-FOG/STATIC LENS CLEANER

(Contd. of page 3)

PEL Long-term value: 980 mg/m³, 400 ppm REL Short-term value: 1225 mg/m³, 500 ppm Long-term value: 980 mg/m³, 400 ppm TLV Short-term value: 400 ppm Bend Administry Bend Administry Medium: urine Time: end of shift at end of workweek Parameter: Acetone (background, nonspecific) 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. Wash hands before breaks and at the end of work. Breathing equipment: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or long exposure use respiratory protective device that is independent of circulating air. 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/ t preparation/ the chemical mixture. Selection of the suitable gloves does not only depend on the material, but also on further marks quality and varies from manufacturer to manufacturer. As the product is a preparation of sever substances, the resistance of the glove material can not be calculated in		ponents with limit values that require monitoring at the workplace: 3-0 propan-2-ol
REL Short-term value: 1225 mg/m³, 500 ppm Long-term value: 980 mg/m³, 400 ppm Long-term value: 400 ppm Long-term value: 200 ppm BEL, A4 Ingredients with biological limit values: 67-63-0 propan-2-ol BEI 40 mg/L Medium: urine Time: end of shift at end of workweek Parameter: Acctone (background, nonspecific) Additional information: The lists that were valid during the creation were used as basis. Exposure controls Personal protective equipment: General protective end hygienic measures: Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Breathing equipment: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or long exposure use respiratory protective device that is independent of circulating air. 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/ t preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and t degradation Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further marks quality and varies from manufacturer to manufacturer. As the product is a preparation of sever substances, the resistance of the glove material can not be calculated in advance and has therefore to checked prior to the application. Th		
Long-term value: 980 mg/m³, 400 pm TLV Short-term value: 400 ppm Long-term value: 200 ppm BEI A4 Togeters with biological limit values: 67-63-0 propan-2-ol BEI 40 mg/L Medium: urine Time: end of shift at end of workweek Parameter: Acetone (background, nonspecific) Additional information: The lists that were valid during the creation were used as basis. Exposure controls Personal protective equipment: General protective equipment: Mage and protective equipment: Mage and protective equipment: Mage and protective equipment: Mage and protective equipment: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or long exposure use respiratory protective device that is independent of circulating air. 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. Due to missing tests no recommendation of the glove material, but also on further marks quality and varies from manufacturer to manufacturer. As the product is a preparation of severs use substance of the gloves does not o		
TLV Short-term value: 400 ppm Long-term value: 200 ppm BEI Advector BEI, A4 Ingredients with biological limit values: 67-63-0 propan-2-ol BEI 40 mg/L Medium: wrine Time: end of shift at end of workweek Parameter: Acetone (background, nonspecific) Additional information: The lists that were valid during the creation were used as basis. Exposure controls Personal protective equipment: General protective equipment: General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Breathing equipment: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or long exposure use respiratory protective device that is independent of circulating air. 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 gloven for the product / the gloven for the product / the gloven for the product / the gloves The selection of the gloves does not only depend on the material, but also on further marks quality and varies from manufacturer to manufacturer. As the product is a preparation of sever sub	KEL	
Long-term value: 200 ppm BEI, A4 Ingredients with biological limit values: 67-63-0 propan-2-ol BEI 40 mg/L Medium: urine Time: end of shift at end of workweek Parameter: Acetone (background, nonspecific) Additional information: The lists that were valid during the creation were used as basis. Exposure controls Personal protective equipment: General protective equipment: General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Breathing equipment: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or long exposure use respiratory protective device that is independent of circulating air. 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/ t preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and t degradation Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further marks quality and varies from manufacturer to manufacturer. As the product is a preparation of sever substances, the resistance of the glove material can not be calculated in advance and has therefore to checked prior to the application. Penetration time of glove material	TIV	
BET, A4 Ingredients with biological limit values: 67-63-0 propan-2-ol BEI 40 mg/L Medium: urine Time: end of shift at end of workweek Parameter: Acetone (background, nonspecific) Additional information: The lists that were valid during the creation were used as basis. Exposure controls Personal protective equipment: General protective equipment: General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Breathing equipment: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or long exposure use respiratory protective device that is independent of circulating air. 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. Selection of the glove material on consideration of the penetration times, rates of diffusion and t degradation Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further marks quality and varies from manufacturer to manufacturer. As the product is a preparation of sever substances, the resistance of the	ILV	
Ingredients with biological limit values: 67-63-0 propan-2-ol BEI 40 mg/L Medium: urine Time: end of shift at end of workweek Parameter: Acetone (background, nonspecific) 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. Wash hands before breaks and at the end of work. Breathing equipment: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or long exposure use respiratory protective device that is independent of circulating air. 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/ t gregatation Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further marks quality and varies from manufacturer to manufacturer. As the product is a preparation of sever substances, the resistance of the glove material can not be calculated in advance and has therefore to 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		
67-63-0 propan-2-ol BEI 40 mg/L Medium: urine Time: end of shift at end of workweek Parameter: Acetone (background, nonspecific) 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. Wash hands before breaks and at the end of work. Breathing equipment: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or long exposure use respiratory protective device that is independent of circulating air. 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/ t preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and t degradation Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further marks quality and varies from manufacturer to manufacturer. As the product is a preparation of seven substances, the resistance of the glove material can not be calculated in advance and has therefore to checked prior to the application. Penetration time of glove	Inori	
BEI 40 mg/L. Medium: urine Time: end of shift at end of workweek Parameter: Acetone (background, nonspecific) 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. Wash hands before breaks and at the end of work. Breathing equipment: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or long exposure use respiratory protective device that is independent of circulating air. 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/ t preparation (the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and t degradation Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further marks quality and varies from manufacturer to manufacturer. As the product is a preparation of seven substances, the resistance of the glove material can not be calculated in advance and has therefore to checked prior to the application. Penetration time of glove material Can of the suitable has to b	-	
Medium: urine Time: end of shift at end of workweek Parameter: Acetone (background, nonspecific) 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. Wash hands before breaks and at the end of work. Breathing equipment: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or long exposure use respiratory protective device that is independent of circulating air. 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 quality and varies from manufacturer to manufacturer. As the product is a preparation of sever substances, the resistance of the glove material can not be calculated in advance and has therefore to checked prior to the application. Penetration time of glove material The seact break through time has to be found out by the manufacture		
Time: end of shift at end of workweek Parameter: Acetone (background, nonspecific) 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. Wash hands before breaks and at the end of work. Breathing equipment: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or long exposure use respiratory protective device that is independent of circulating air. 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 quality and varies from manufacturer to manufacturer. As the product is a preparation of sever substances, the resistance of the glove material can not be calculated in advance and has therefore to checked prior to the application. Penetration time of glove material The seact break through time has to be found out by the manufacturer of the protective gloves and has to		
Parameter: Acetone (background, nonspecific) 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. Wash hands before breaks and at the end of work. Breathing equipment: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or long exposure use respiratory protective device that is independent of circulating air. 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/ to preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and t degradation Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further marks quality and varies from manufacturer to manufacturer. As the product is a preparation of sever substances, the resistance of the glove material can not be calculated in advance and has therefore to 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		
 Exposure controls Personal protective equipment: General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Breathing equipment: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or long exposure use respiratory protective device that is independent of circulating air. 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 quality and varies from manufacturer to manufacturer. As the product is a preparation of sever substances, the resistance of the glove material can not be calculated in advance and has therefore to checked prior to the application. Penetration time of glove material 		
 Exposure controls Personal protective equipment: General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Breathing equipment: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or long exposure use respiratory protective device that is independent of circulating air. 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 quality and varies from manufacturer to manufacturer. As the product is a preparation of sever substances, the resistance of the glove material can not be calculated in advance and has therefore to checked prior to the application. Penetration time of glove material 	Addi	tional information: The lists that were valid during the creation were used as basis.
The selection of the suitable gloves does not only depend on the material, but also on further marks quality and varies from manufacturer to manufacturer. As the product is a preparation of sever substances, the resistance of the glove material can not be calculated in advance and has therefore to 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	Prote The g Due prepa Selea degra	ection of hands: glove material has to be impermeable and resistant to the product/ the substance/ the preparation. to missing tests no recommendation to the glove material can be given for the product/ the aration/ the chemical mixture. ction of the glove material on consideration of the penetration times, rates of diffusion and the addition
	The s qual subst check Pene	selection of the suitable gloves does not only depend on the material, but also on further marks of ity and varies from manufacturer to manufacturer. As the product is a preparation of several tances, the resistance of the glove material can not be calculated in advance and has therefore to be ked prior to the application. tration time of glove material
observed.	obser	rved.
Eye protection:	Eye p	protection:

(Contd. on page 5)

US

Printing date 02/28/2023

Reviewed on 02/28/2023

Trade name: ANTI-FOG/STATIC LENS CLEANER

(Contd. of page 4)

Information on basic physical and o	chemical properties
General Information	
Appearance:	T • • • T
Form: Color:	Liquid Clear
Odor:	uncharacteristic
Odor threshold:	Not determined.
<i>pH-value at 20 °C (68 °F):</i>	7.5
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	88 °C (190.4 °F)
Flash point:	37 °C (98.6 °F)
Flammability (solid, gaseous):	Flammable.
Ignition temperature:	425 °C (797 °F)
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	<i>Product is not explosive. However, formation of explosive ai vapor mixtures are possible.</i>
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)
Density:	Not determined.
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Fully miscible.
Partition coefficient (n-octanol/wate	er): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	8.5 %
Water:	89.0 %
VOC content:	8.50 % 772.7 g/l / 6.45 lb/gal
Solids content:	0.0 %

US

Printing date 02/28/2023

Reviewed on 02/28/2023

Trade name: ANTI-FOG/STATIC LENS CLEANER

(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 infor<u>mation</u>

· Information on toxicological effects

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

67-63-0 pr	-	
Oral	LD50	5,045 mg/kg (rat)
Dermal	LD50	12,800 mg/kg (rabbit)
Inhalative	LC50/4 h	5,045 mg/kg (rat) 12,800 mg/kg (rabbit) 30 mg/l (rat)

· 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 shows the following dangers according to internally approved calculation methods for preparations:

Harmful

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

67-63-0 propan-2-ol

· 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.

(Contd. on page 7)

3

US

Printing date 02/28/2023

Reviewed on 02/28/2023

Trade name: ANTI-FOG/STATIC LENS CLEANER

(Contd. of page 6)

- · 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:
- 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.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

UN-Number	
DOT, ADR, IMDG, IATA	UN1993
UN proper shipping name	
DOT	Flammable liquids, n.o.s. (Isopropanol)
ADR	1993 FLAMMABLE LIQUID, N.O.S. (ISOPROPANC
	(ISOPROPYL ALCOHOL))
IMDG, IATA	FLAMMABLE LIQUID, N.O.S. (ISOPROPANC
	(ISOPROPYL ALCOHOL))
Transport hazard class(es)	
DOT	
R AMMAR E LIQUI	
×	
Class	3 Flammable liquids
Label	3

Printing date 02/28/2023

Reviewed on 02/28/2023

Trade name: ANTI-FOG/STATIC LENS CLEANER

	(Contd. of pag
ADR, IMDG, IATA	
· Class	3 Flammable liquids
· Label	3
Packing group DOT, ADR, IMDG, IATA	111
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Flammable liquids
Hazard identification number (Kemler code):	
EMS Number:	<i>F-E</i> , <u><i>S-E</i></u>
Stowage Category	A
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 60 L
~ `	On cargo aircraft only: 220 L
ADR	
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (ISOPROPANO (ISOPROPYL ALCOHOL)), 3, III

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):

67-63-0 propan-2-ol

(Contd. on page 9)

[•] US

Printing date 02/28/2023

Reviewed on 02/28/2023

Trade name: ANTI-FOG/STATIC LENS CLEANER

(Contd. of page 8)

A4

• 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.

· TLV (Threshold Limit Value)

67-63-0 propan-2-ol

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

None of the ingredients is listed.

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms



· Signal word Warning

· Hazard statements

Flammable liquid and vapor.

· Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting/equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

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

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

In case of fire: Use CO2, powder or water spray to extinguish.

Store in a well-ventilated place. Keep cool.

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

(Contd. on page 10)

Printing date 02/28/2023

Reviewed on 02/28/2023

Trade name: ANTI-FOG/STATIC LENS CLEANER

(Contd. of page 9)

· 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 02/28/2023

· 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) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent 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 **BEI:** Biological Exposure Limit Flammable Liquids 3: Flammable liquids – Category 3