Printing date 01/12/2018

Reviewed on 01/12/2018

Identification	
Product identifier	all m
Trade name: <u>Phenolphthalein</u>	nêite
Indicator Solution	
Article number: 220-01-M-I	
Details of the supplier of the safety data sheet Manufacturer/Supplier: OFI Testing Equipment Inc. 11302 Steeplecrest Dr. Houston, TX 77065 (877) 837-8683	
Information department: techservices@ofite.com Emergency telephone number: INFOTRAC USA - CANADA: 1-800-535-5053 INTERNATIONAL: 1-352-323-3500	
Hazard(s) identification	
Classification of the substance or mixture	
GHS02 Flame	
Flam. Liq. 3 H226 Flammable liquid and vapor.	
GHS08 Health hazard	
Muta. 2 H341 Suspected of causing genetic a	lefects.
Carc. 1B H350 May cause cancer.	
Repr. 2 H361 Suspected of damaging fertilit	y or the unborn child.
GHS07	
Eye Irrit. 2A H319 Causes serious eye irritation.	
Label elements GHS label elements The product is classified and l Hazard pictograms	labeled according to the Globally Harmonized System (GHS
GHS02 GHS07 GHS08	
Signal word Danger	
Hazard-determining components of labeling: Phenolphthalein	
Hazard statements Flammable liquid and vapor.	
Causes serious eye irritation. Suspected of causing genetic defects.	
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· Dangerous components:

1,2 Propanediol (Propylene Glycol)

CAS: 1569-01-3 Propylene Glycol n-Propyl Ether

Phenolphthalein

CAS: 57-55-6

CAS: 77-09-8

May cause cancer.	(Contd. of page
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 understoo	<i>ad</i>
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.	
Wash thoroughly after handling.	
Wear protective gloves/protective clothing/eye protection/face protection	n.
If on skin (or hair): Take off immediately all contaminated clothing. Rins	
If in eyes: Rinse cautiously with water for several minutes. Remove c	
Continue rinsing.	
IF exposed or concerned: Get medical advice/attention.	
If eye irritation persists: Get medical advice/attention.	
<i>In case of fire: Use for extinction: CO2, powder or water spray.</i>	
Store in a well-ventilated place. Keep cool.	
Store locked up.	
Dispose of contents/container in accordance with local/regional/nationa	ul/international regulations.
Classification system:	
NFPÅ ratings (scale 0 - 4)	
Health = 2	
Fire = 1	
2 <i>Q Reactivity</i> = 0	
HMIS-ratings (scale 0 - 4)	
$\begin{array}{c c} \text{HEALTH} & 2 \end{array} \\ Health = 2 \end{array}$	
FIRE 1 $Fire = 1$	
REACTIVITY O Reactivity = 0	
Other hazards	
Other nazaras Results of PBT and vPvB assessment	
PBT: Not applicable.	
vPvB: Not applicable.	

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35.291%

30.318%

1.023%

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· Table of Nonhazardous Ingredients

33.368%

CAS: 7732-18-5 Water

4 First-aid measures

- Description of first aid measures
- 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. If symptoms persist, consult a doctor.
- After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- \cdot 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.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- · 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 Wear protective equipment. Keep unprotected persons away. · Environmental precautions: 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: CAS: 57-55-6 1,2 Propanediol (Propylene Glycol) 30 mg/m^3 CAS: 77-09-8 Phenolphthalein $4 mg/m^3$ · PAC-2: CAS: 57-55-6 1,2 Propanediol (Propylene Glycol) $1,300 \text{ mg/m}^3$ CAS: 77-09-8 Phenolphthalein 44 mg/m^3 · PAC-3: CAS: 57-55-6 1,2 Propanediol (Propylene Glycol) $7,900 \text{ mg/m}^3$ (Contd. on page 4)

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CAS: 77-09-8 Phenolphthalein

(Contd. of page 3) $260 mg/m^3$

7 Handling and storage

- · Handling:
- · Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
- 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.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:
- The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

CAS: 57-55-6 1,2 Propanediol (Propylene Glycol)

TWA Short-term value: 10 mg/m³ weel

WEEL 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:
- 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.
- 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.

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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 \cdot *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:



Tightly sealed goggles

· Body protection: Protective work clothing

Information on basic physical and	haming I proportion	
Information on basic physical and of General Information	cnemicai properties	
Appearance:		
Form:	Liquid	
Color:	Clear	
Odor:	Mild	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	100 °C (212 °F)	
Flash point:	103 °C (217.4 °F)	
Flammability (solid, gaseous):	Not applicable.	
Ignition temperature:		
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Not determined.	
Explosion limits:		
Lower:	1.3 Vol %	
Upper:	10.6 Vol %	
Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)	
Density at 20 °C (68 °F):	0.97432 g/cm ³ (8.1307 lbs/gal)	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	

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		(Contd. of page
· Solubility in / Miscibility with	1	
Water:	Not miscible or difficult to mix.	
Partition coefficient (n-octan	ol/water): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Water:	33.4 %	
VOC content:	0.00~%	
	0.0 g/l / 0.00 lb/gl	
Solids content:	0.0 %	
• 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.

11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

Oral LD50 >6,597 mg/kg (rat)

Dermal LD50 >6,597 mg/kg (rabbit)

CAS: 57-55-6 1,2 Propanediol (Propylene Glycol)

Oral LD50 500 mg/kg (ATE)

· Primary irritant effect:

• on the skin: No irritant effect.

• on the eye: Irritating effect.

• Sensitization: No sensitizing effects known.

 \cdot Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

CAS: 77-09-8 Phenolphthalein

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· NTP (National Toxicology Program)

CAS: 77-09-8 Phenolphthalein

· 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 2 (Self-assessment): hazardous for water

- Do not allow product to reach ground water, water course or sewage system.
- Danger to drinking water if even 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.

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

UN-Number		
DOT, ADN, IMDG, IATA	Not regulated	
UN proper shipping name		
DOT, ADN, IMDG, IATA	Not regulated	
Transport hazard class(es)		
DOT, ADN, IMDG, IATA		
Class	Not regulated	
Packing group		
DOT, IMDG, IATA	Not regulated	
Environmental hazards:		
Marine pollutant:	Yes	

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Special precautions for user	Not applicable.
Transport in bulk according to Anno MARPOL73/78 and the IBC Code	ex II of Not applicable.
· UN "Model Regulation":	Not regulated
Regulatory information	
	gulations/legislation specific for the substance or mixture
Section 355 (extremely hazardous su	ibstances):
None of the ingredients is listed.	
Section 313 (Specific toxic chemical	listings):
CAS: 77-09-8 Phenolphthalein	
TSCA (Toxic Substances Control Ac	zt):
1,2 Propanediol (Propylene Glycol)	<u>·</u>
Propylene Glycol n-Propyl Ether	
Phenolphthalein	
Water	
TSCA new (21st Century Act) (Subs	tances not listed)
CAS: 77-09-8 Phenolphthalein	
Proposition 65	
Chemicals known to cause cancer:	
CAS: 77-09-8 Phenolphthalein	
· Chemicals known to cause reproduc	tive toxicity for females:
None of the ingredients is listed.	
· Chemicals known to cause reproduc	tive toxicity for males:
None of the ingredients is listed.	
· Chemicals known to cause developn	iental toxicity:
None of the ingredients is listed.	
Carcinogenic categories	
EPA (Environmental Protection Age	ency)
None of the ingredients is listed.	
· TLV (Threshold Limit Value establi	shed by ACGIH)
None of the ingredients is listed.	
NIOSH-Ca (National Institute for O	Occupational Safety and Health)
None of the ingredients is listed.	

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(Contd. of page 8) · Hazard pictograms GHS02 GHS07 GHS08 · Signal word Danger · Hazard-determining components of labeling: Phenolphthalein · Hazard statements Flammable liquid and vapor. Causes serious eye irritation. Suspected of causing genetic defects. May cause cancer. 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. 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. Wash thoroughly after handling. 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. 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. If eye irritation persists: Get medical advice/attention. In case of fire: Use for extinction: CO2, powder or water spray. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. · National regulations: · Additional classification according to Decree on Hazardous Materials: Carcinogenic hazardous material group III (dangerous). · Information about limitation of use: Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases. · 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.

· Department issuing SDS: Environment protection department.

· Contact:

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· Date of preparation / last revision	
01-12-2018: review SDS for accuracy. STN	
Creation date for SDS 07-16-2014 LS	
<i>Revision 0.1, 05-04-2015: revised to correct emergency contact and technical contact information.</i>	STM
	SIN
01/12/2018 / -	
· Abbreviations and acronyms:	
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning	g 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	
ACGIH: American Conference of Governmental Industrial Hygienists	
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	
Flam. Liq. 3: Flammable liquids – Category 3	
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A	
Muta. 2: Germ cell mutagenicity – Category 2	
Carc. 1B: Carcinogenicity – Category 1B	
Repr. 2: Reproductive toxicity – Category 2	
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