Printing date 04/05/2021

*

Reviewed on 04/05/2021

Identification	
Product identifier	
Trade name: <u>Masking Agent</u> 1:1:4 Masking Agent	OFITE .
Article number: 261-55-01 Application of the substance / the mixture Laboratory chemicals	
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 Technical Coordinator Sherman Nelson sherman@aquasolutions.org Emergency telephone number: Chemtrec: 800-424-9300 Canutec: 613-996-6666	
Hazard(s) identification	
GHS08 Health hazard	
Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing GHS05 Corrosion	difficulties if inhaled.
GHS05 Corrosion	difficulties if inhaled.
	difficulties if inhaled.
GHS05 Corrosion Skin Corr. 1B H314 Causes severe skin burns and eye damage. Eye Dam. 1 H318 Causes serious eye damage. GHS07	difficulties if inhaled.
GHS05 Corrosion Skin Corr. 1B H314 Causes severe skin burns and eye damage. Eye Dam. 1 H318 Causes serious eye damage.	
GHS05 Corrosion Skin Corr. 1B H314 Causes severe skin burns and eye damage. Eye Dam. 1 H318 Causes serious eye damage. GHS07 Skin Sens. 1 H317 May cause an allergic skin reaction. Label elements GHS04 causes the product is classified and labeled according to the	
GHS05 Corrosion Skin Corr. 1B H314 Causes severe skin burns and eye damage. Eye Dam. 1 H318 Causes serious eye damage. Output GHS07 Skin Sens. 1 H317 May cause an allergic skin reaction. Label elements GHS label elements The product is classified and labeled according to the Hazard pictograms Output	
GHS05 CorrosionSkin Corr. 1B H314 Causes severe skin burns and eye damage.Eye Dam. 1 H318 Causes serious eye damage.OutputOutputGHS07Skin Sens. 1 H317 May cause an allergic skin reaction.Label elementsGHS label elementsThe product is classified and labeled according to theHazard pictogramsOutputGHS05 GHS08	

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	(Contd. of page 1)
Hazard statements	
Causes severe skin burns and eye damage.	
May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
May cause an allergic skin reaction.	
Precautionary statements	
Do not breathe dusts or mists.	
Wash thoroughly after handling.	
Contaminated work clothing must not be allowed out of the workplace.	
Wear protective gloves/protective clothing/eye protection/face protection.	
[In case of inadequate ventilation] wear respiratory protection.	
If swallowed: Rinse mouth. Do NOT induce vomiting.	
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. 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 Continue rinsing.	and easy to do.
Immediately call a poison center/doctor.	
Specific treatment (see on this label).	
If skin irritation or rash occurs: Get medical advice/attention.	
If experiencing respiratory symptoms: Call a poison center/doctor.	
Wash contaminated clothing before reuse.	
Store locked up.	
Dispose of contents/container in accordance with local/regional/national/international regulation	ıs.
Classification system:	
NFPA ratings (scale 0 - 4)	
Health = 2	
Fire = 1	
$\frac{2}{Reactivity} = 0$	
• •	
HMIS-ratings (scale 0 - 4)	
HEALTH 2 $Health = 2$	
FIRE 1 $Fire = 1$	
REACTIVITY Reactivity = 0	
Other hazards	
Results of PBT and vPvB assessment	
PBT: Not applicable.	
• vPvB: Not applicable.	
Composition/information on ingredients	
Chemical characterization: Mixtures	
Description: Mixture of the substances listed below with nonhazardous additions.	
Dangerous components:	
· ·	10 4504
CAS: 102-71-6 Triethanolamine	18.45%

CAS: 7732-18-5 Water

· Table of Nonhazardous Ingredients

CAS: 112-57-2 Tetraethylenepentamine, Technical Grade

(Contd. on page 3)

16.087%

65.463%

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1:1:4 Masking Agent

(Contd. of page 2)

4 First-aid measures

- · Description of first aid measures
- General information: Immediately remove any clothing soiled by the product.
- After inhalation:
- Supply fresh air and to be sure call for a 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. Then consult a doctor.
- After swallowing: Drink copious amounts of water and provide fresh air. Immediately call a 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
- During heating or in case of fire poisonous gases are produced.
- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures Mount respiratory protective device. 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). Use neutralizing agent. 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: 102-71-6 Triethanolamine CAS: 112-57-2 Tetraethylenepentamine, Technical Grade

· PAC-2:

CAS: 102-71-6 Tr	riethanolamine	240 mg/m ³
CAS: 112-57-2 Te	etraethylenepentamine, Technical Grade	130 mg/m³
· PAC-3:		
CAS: 102-71-6 Tr	riethanolamine 1,	,500 mg/m³
	(Co	ontd. on page 4)

 $15 mg/m^3$

 15 mg/m^3

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CAS: 112-57-2 Tetraethylenepentamine, Technical Grade

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 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:
- CAS: 102-71-6 Triethanolamine

TLV Long-term value: 5 mg/m³

CAS: 112-57-2 Tetraethylenepentamine, Technical Grade

WEEL Long-term value: 5 mg/m³

Skin; DSEN

• 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.
- 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. 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)

(Contd. of page 3) $790 mg/m^3$

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(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. 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

9 Physical and chemical properties · Information on basic physical and chemical properties · General Information · Appearance: Form: Liquid Color: Light yellow · Odor: Ammonia-like · Odor threshold: Not determined. Not determined. · pH-value: · Change in condition Melting point/Melting range: Undetermined. Boiling point/Boiling range: 100 °C (212 °F) 163 °C (325.4 °F) · Flash point: · Flammability (solid, gaseous): Not applicable. 305 °C (581 °F) · Ignition temperature: • 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 at 20 °C (68 °F): 23 hPa (17.3 mm Hg) • Density at 20 •C (68 •F): 1.0248 g/cm³ (8.55196 lbs/gal) · Relative density Not determined. · Vapor density Not determined. · Evaporation rate Not determined. · Solubility in / Miscibility with Water: Not miscible or difficult to mix. · Partition coefficient (n-octanol/water): Not determined.

(Contd. on page 6)

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		(Contd. of page 5
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	18.5 %	
Water:	65.5 %	
VOC content:	18.45 %	
	189.1 g/l / 1.58 lb/gal	
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 24,803 mg/kg (rat)

Dermal LD50 6,838 mg/kg

CAS: 112-57-2 Tetraethylenepentamine, Technical Grade

Oral LD50 500 mg/kg (ATE)

Dermal LD50 1,100 mg/kg (ATE)

· Primary irritant effect:

- on the skin: Caustic effect on skin and mucous membranes.
- on the eye:
- Strong caustic effect.

Strong irritant with the danger of severe eye injury.

• Sensitization:

Sensitization possible through inhalation.

Sensitization possible through skin contact.

• Additional toxicological information: The product shows the following dangers according to internally approved calculation methods for preparations: Harmful Corrosive Irritant

(Contd. on page 7)

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Safety Data Sheet acc. to OSHA HCS

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Trade name: Masking Agent 1:1:4 Masking Agent

1.1. 1 11/1/1/19/11

(Contd. of page 6) Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)

CAS: 102-71-6 Triethanolamine

 \cdot 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 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system. Must not reach bodies of water or drainage ditch undiluted or unneutralized. Danger to drinking water if even small quantities leak into the ground.

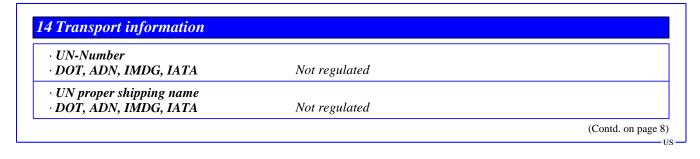
- Results of PBT and vPvB assessment
- *PBT:* Not applicable.
- **vPvB**: Not applicable.
- · Other adverse effects No further relevant information available.

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.



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Trade name: Masking Agent 1:1:4 Masking Agent

		(Contd. of page 7)
· Transport hazard class(es)		
· DOT, ADN, IMDG, IATA · Class	Not regulated	
· Packing group · DOT, IMDG, IATA	Not regulated	
• Environmental hazards: • Marine pollutant:	No	
· Special precautions for user	Not applicable.	
• Transport in bulk according to Annex L MARPOL73/78 and the IBC Code	of Not applicable.	
· UN "Model Regulation":	Not regulated	

15 Regulatory information

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available. • Sara

· 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):	
Water	ACTIVE
Triethanolamine	ACTIVE
Tetraethylenepentamine, Technical Grade	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)	
None of the ingredients is listed.	
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Trade name: Masking Agent 1:1:4 Masking Agent

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\cdot 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 Danger

- *Hazard-determining components of labeling: Tetraethylenepentamine, Technical Grade*
- · Hazard statements

Causes severe skin burns and eye damage.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

· Precautionary statements

Do not breathe dusts or mists.

Wash thoroughly after handling.

Contaminated work clothing must not be allowed out of the workplace.

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

[In case of inadequate ventilation] wear respiratory protection.

If swallowed: Rinse mouth. Do NOT induce vomiting.

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

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.

Immediately call a poison center/doctor.

Specific treatment (see on this label).

If skin irritation or rash occurs: Get medical advice/attention.

If experiencing respiratory symptoms: Call a poison center/doctor.

Wash contaminated clothing before reuse.

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.

• Department issuing SDS: Environment protection department.

· Contact:

Date of preparation / last revision
 Revision 0.0, 03-17-2021: Creation date for SDS. STN
 Revision 0.0, 09-22-2020: Creation date for SDS. STN
 Revision 0.2, updated pH Information. STN
 Revision 0.1, 05-05-2015: revised to correct emergency and information contacts. STN 04/05/2021 / 1.0
 Abbreviations and acronyms:
 IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

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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 Skin Corr. 1B: Skin corrosion/irritation – Category 1B Eye Dam. 1: Serious eye damage/eye irritation - Category 1 Resp. Sens. 1: Respiratory sensitisation - Category 1 Skin Sens. 1: Skin sensitisation – Category 1 \cdot * Data compared to the previous version altered.

Updated to GHS Compliance. LS