Printing date 07/24/2024

Reviewed on 07/18/2024

#### **1** Identification

- · Product identifier
- Trade name: <u>Nitric Acid</u> <u>10% v/v Solution</u>
- · Article number: 6473

Details of the supplier of the safety data sheet
Manufacturer/Supplier: Aqua Solutions, Inc.
6913 Highway 225 DEER PARK, TX 77536 USA
800-256-2586

• Information department: Technical Coordinator Sherman Nelson shermann@aquasolutions.org Technical Coordinator Sherman Nelson shermann@aquasolutions.org

• Emergency telephone number: Chemtrec: 800-424-9300 Canutec: 613-996-6666

#### 2 Hazard(s) identification

· Classification of the substance or mixture



Skin Corrosion 1A H314 Causes severe skin burns and eye damage.

*Eye Damage 1* H318 Causes serious eye damage.

- · Label elements
- · 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: Nitric Acid
- Hazard statements
- Causes severe skin burns and eye damage.
- Precautionary statements
  Do not breathe dusts or mists.
  Wash thoroughly after handling.
  Wear protective gloves/protective clothing/eye protection/face protection.
  If swallowed: Rinse mouth. Do NOT induce vomiting.
  If on skin (or hair): Take off immediately all contaminated clothing. Pinece

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.

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Immediately call a poison center/doctor.	(Conta. of page 1)
Specific treatment (see on this label).	
Wash contaminated clothing before reuse.	
Store locked up.	
Dispose of contents/container in accordance with local/regional/national/international regulation	3 <i>1</i> 1 S
· Classification system:	///.5.
· NFPA ratings (scale 0 - 4)	
Health = 3	
Fire = $0$	
3  0  Reactivity = 0	
· HMIS-ratings (scale 0 - 4)	
<b>HEALTH</b> 3 $Health = 3$	
FIRE 0 $Fire = 0$	
<b>REACTIVITY</b> $O$ <i>Reactivity</i> = 0	
• Other hazards	
· Results of PBT and vPvB assessment	
• <b>PBT:</b> Not applicable.	
• <b>vPvB:</b> Not applicable.	

#### 3 Composition/information on ingredients

· Chemical characterization: Mixtures

• Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:

CAS: 7697-37-2 Nitric Acid

 $\cdot$  Table of Nonhazardous Ingredients

CAS: 7732-18-5 Water

#### \*

## 4 First-aid measures

- · Description of first aid measures
- General information: Immediately remove any clothing soiled by the product.
- After inhalation: 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.

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14.31%

85.69%

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· Special hazard	s arising	from the	substance	or mixture
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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:	
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).	
Use neutralizing agent.	
Dispose contaminated material as waste according to section 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: 7697-37-2 Nitric Acid 0.16 ppm	]
· PAC-2:	]
CAS: 7697-37-2 Nitric Acid 24 ppm	]
· PAC-3:	]
CAS: 7697-37-2 Nitric Acid 92 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 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 section 7.

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	ponents with limit values that require monitoring at the workplace:
	7697-37-2 Nitric Acid
	Long-term value: 5 mg/m <sup>3</sup> , 2 ppm
REL	Short-term value: 10 mg/m <sup>3</sup> , 4 ppm
	Long-term value: 5 mg/m <sup>3</sup> , 2 ppm
TLV	Short-term value: (4) NIC-0.025 ppm
	Long-term value: (2) ppm
A ddi	NIC-A4 <i>fional information:</i> The lists that were valid during the creation were used as basis.
	•
	sure controls onal protective equipment:
	ral protective and hygienic measures:
	away from foodstuffs, beverages and feed.
	diately remove all soiled and contaminated clothing.
	hands before breaks and at the end of work.
	l contact with the eyes.
	l contact with the eyes and skin.
	thing equipment:
	se of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure u
	ratory protective device that is independent of circulating air. Action of hands:
	Protective gloves
Due i	love 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 preparation/ to ical mixture.
	tion of the glove material on consideration of the penetration times, rates of diffusion and the degradation
	rial of gloves
The s	election of the suitable gloves does not only depend on the material, but also on further marks of quality an
	s from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance
	love material can not be calculated in advance and has therefore to be checked prior to the application.
	<b>tration time of glove material</b> exact break through time has to be found out by the manufacturer of the protective gloves and has to b
i ne e obser	
	vea.
	Tightly sealed goggles
Body	protection: Protective work clothing
2	- · ·

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9 Physical and chemical proper	ties	
· Information on basic physical and c	hemical properties	
• General Information		
· Appearance:		
Form:	Liquid	
Color:	Clear	
· Odor:	Odorless	
• Odor threshold:	Not determined.	
• <i>pH-value at 20 °C (68 °F):</i>	<2	
• Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	100 °C (212 °F)	
· Flash point:	Not applicable.	
· Flammability (solid, gaseous):	Not applicable.	
• Decomposition temperature:	Not determined.	
· Ignition temperature:	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):	1.0503 g/cm <sup>3</sup> (8.76475 lbs/gal)	
· Relative density	Not determined.	
· Vapor density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
Water:	Fully miscible.	
· Partition coefficient (n-octanol/water): Not determined.		
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:	05.7.0	
Water:	85.7 %	
VOC content:	0.00 %	
	0.0 g/l / 0.00 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.

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- · 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)

Inhalative LC50/4h 21 mg/l

- · Primary irritant effect:
- on the skin: Strong caustic effect on skin and mucous membranes.
- $\cdot$  on the eye:
- Strong caustic effect.

Strong irritant with the danger of severe eye injury.

- Sensitization: No sensitizing effects known.
- · Additional toxicological information:

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

Irritant

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)

None of the ingredients is listed.

· 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.

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

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#### · 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, IMDG, IATA	UN2031
UN proper shipping name	
DOT	Nitric acid solution
IMDG, IATA	NITRIC ACID solution
Transport hazard class(es)	
DOT	
J. J.	
CORROSIVE	
Class	8 Corrosive substances
Label	8
IMDC LATA	
IMDG, IATA	
8	
Class	8 Corrosive substances
Label	8
Packing group DOT, IMDG, IATA	11
	11
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Warning: Corrosive substances
Hazard identification number (Kemler code):	80
EMS Number:	F-A,S-Q
Segregation groups	(SGG1) Acids
Stowage Category	A

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· Stowage Code	SW2 Clear of living quarters.
• 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: 5 L On cargo aircraft only: 60 L
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 2031 NITRIC ACID SOLUTION, 8, II

# 15 Regulatory information

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

CAS: 7697-37-2 Nitric Acid Section 313 (Specific toxic chemical listings): CAS: 7697-37-2 Nitric Acid TSCA (Toxic Substances Control Act): Water ACTIVI Nitric Acid ACTIVI 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. Chemicals known to cause developmental toxicity: None of the ingredients is listed. Chemicals known to cause developmental toxicity: None of the ingredients is listed. Chemicals known to cause developmental toxicity: None of the ingredients is listed. Chemicals known to cause developmental toxicity: None of the ingredients is listed. Chemicals known to cause developmental toxicity: None of the ingredients is listed. Chemicals known to cause developmental toxicity: None of the ingredients is listed. Chemicals known to cause developmental toxicity: None of the ingredients is listed. Chemicals known to cause developmental toxicity: None of the ingredients is listed. Chemicals known to cause developmental toxicity: None of the ingredients is listed. Chemicals known to cause developmental toxicity: None of the ingredients is listed. Chemicals known to cause developmental toxicity: None of the ingredients is listed.	· Sara	
Section 313 (Specific toxic chemical listings): CAS: 7697-37-2 Nitric Acid TSCA (Toxic Substances Control Act): Water ACTIVI Nitric Acid ACTIVI 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. Chemicals known to cause developmental toxicity: None of the ingredients is listed. Chemicals known to cause developmental toxicity: None of the ingredients is listed. Chemicals known to cause developmental toxicity: None of the ingredients is listed. CI Chemicals is listed. CI Chemicals known to cause developmental toxicity: None of the ingredients is listed. CI Carcinogenic categories EPA (Environmental Protection Agency) None of the ingredients is listed. TLV (Threshold Limit Value)	· Section 355 (extremely hazardous substances):	
CAS: 7697-37-2       Nitric Acid         TSCA (Toxic Substances Control Act):       ACTIVI         Water       ACTIVI         Nitric Acid       ACTIVI         Hazardous Air Pollutants       ACTIVI         None of the ingredients is listed.       Proposition 65         Chemicals known to cause cancer:       None of the ingredients is listed.         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.       Chemicals known to cause developmental toxicity:         None of the ingredients is listed.       Chemicals known to cause developmental toxicity:         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)       TLV (Threshold Limit Value)	CAS: 7697-37-2 Nitric Acid	
TSCA (Toxic Substances Control Act):         Water       ACTIVI         Nitric Acid       ACTIVI         Hazardous Air Pollutants       ACTIVI         Hazardous Air Pollutants       Proposition 65         Chemicals known to cause cancer:       None of the ingredients is listed.         None of the ingredients is listed.       Chemicals known to cause reproductive toxicity for females:         None of the ingredients is listed.       Image: Chemicals known to cause reproductive toxicity for males:         None of the ingredients is listed.       Image: Chemicals known to cause reproductive toxicity for males:         None of the ingredients is listed.       Image: Chemicals known to cause developmental toxicity:         None of the ingredients is listed.       Image: Chemicals known to cause developmental toxicity:         None of the ingredients is listed.       Image: Chemicals known to cause developmental toxicity:         None of the ingredients is listed.       Image: Caecinogenic categories         EPA (Environmental Protection Agency)       Image: Chemicals is listed.         None of the ingredients is listed.       Image: Caecinogenic is listed.         Chemicals known to cause developmental toxicity:       Image: Caecinogenic categories         EPA (Environmental Protection Agency)       Image: Caecinogenic is listed.         TLV (Threshold Limit Value)       Image: Caecinogenic is listed.	· Section 313 (Specific toxic chemical listings):	
WaterACTIVINitric AcidACTIVINitric AcidACTIVIHazardous Air PollutantsACTIVIHazardous Air PollutantsInternational State	CAS: 7697-37-2 Nitric Acid	
Nitric AcidACTIVEHazardous Air PollutantsInterfaceNone of the ingredients is listed.InterfaceProposition 65InterfaceChemicals known to cause cancer: None of the ingredients is listed.InterfaceChemicals known to cause reproductive toxicity for females: None of the ingredients is listed.InterfaceChemicals known to cause reproductive toxicity for males: None of the ingredients is listed.InterfaceChemicals known to cause reproductive toxicity for males: None of the ingredients is listed.InterfaceChemicals known to cause developmental toxicity: None of the ingredients is listed.InterfaceCarcinogenic categoriesInterfaceEPA (Environmental Protection Agency) None of the ingredients is listed.InterfaceTLV (Threshold Limit Value)Interface	· TSCA (Toxic Substances Control Act):	
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 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)	Water	ACTIVE
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<ul> <li>Proposition 65</li> <li>Chemicals known to cause cancer: <ul> <li>None of the ingredients is listed.</li> </ul> </li> <li>Chemicals known to cause reproductive toxicity for females: <ul> <li>None of the ingredients is listed.</li> </ul> </li> <li>Chemicals known to cause reproductive toxicity for males: <ul> <li>None of the ingredients is listed.</li> </ul> </li> <li>Chemicals known to cause developmental toxicity: <ul> <li>None of the ingredients is listed.</li> </ul> </li> <li>Carcinogenic categories <ul> <li>EPA (Environmental Protection Agency)</li> <li>None of the ingredients is listed.</li> </ul> </li> <li>TLV (Threshold Limit Value)</li> </ul>	· Hazardous Air Pollutants	
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 categoriesEPA (Environmental Protection Agency)None of the ingredients is listed.		
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.         • 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)	· Proposition 65	
<ul> <li>Chemicals known to cause reproductive toxicity for females:</li> <li>None of the ingredients is listed.</li> <li>Chemicals known to cause reproductive toxicity for males:</li> <li>None of the ingredients is listed.</li> <li>Chemicals known to cause developmental toxicity:</li> <li>None of the ingredients is listed.</li> <li>Carcinogenic categories</li> <li>EPA (Environmental Protection Agency)</li> <li>None of the ingredients is listed.</li> <li>TLV (Threshold Limit Value)</li> </ul>	· Chemicals known to cause cancer:	
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.	
<ul> <li>Chemicals known to cause reproductive toxicity for males:</li> <li>None of the ingredients is listed.</li> <li>Chemicals known to cause developmental toxicity:</li> <li>None of the ingredients is listed.</li> <li>Carcinogenic categories</li> <li>EPA (Environmental Protection Agency)</li> <li>None of the ingredients is listed.</li> <li>TLV (Threshold Limit Value)</li> </ul>	· Chemicals known to cause reproductive toxicity for females:	
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.	
<ul> <li>Chemicals known to cause developmental toxicity:</li> <li>None of the ingredients is listed.</li> <li>Carcinogenic categories</li> <li>EPA (Environmental Protection Agency)</li> <li>None of the ingredients is listed.</li> <li>TLV (Threshold Limit Value)</li> </ul>	· Chemicals known to cause reproductive toxicity for males:	
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.	
Carcinogenic categories     EPA (Environmental Protection Agency)     None of the ingredients is listed.     TLV (Threshold Limit Value)	· Chemicals known to cause developmental toxicity:	
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TLV (Threshold Limit Value)	· EPA (Environmental Protection Agency)	
	None of the ingredients is listed.	
None of the ingredients is listed.	· TLV (Threshold Limit Value)	
	None of the ingredients is listed.	

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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: Nitric Acid · Hazard statements Causes severe skin burns and eye damage. · Precautionary statements Do not breathe dusts or mists. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face 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). 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: · Date of preparation / last revision Revision 1.2 07/24/2024: Reviewed SDS for accuracy. MH/STN 07/24/2024 / -· 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 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

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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 Corrosion 1A: Skin corrosion/irritation – Category 1A Eye Damage 1: Serious eye damage/eye irritation – Category 1 • \* Data compared to the previous version altered.