Safety Data Sheet
acc. to OSHA HCS

Printing date 02/18/2025 *Reviewed on 02/18/2025*

1 Identification

· **Product identifier**

· **Trade name: Multi-Component Mixed ICP Standard 100 PPM Each**

· **Article number:** ND725

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

2 Hazard(s) identification

· **Classification of the substance or mixture**

GHS05 Corrosion

Corrosive to Metals 1	H290 May be corrosive to metals.
Skin Corrosion 1A	H314 Causes severe skin burns and eye damage.
Eye Damage 1	H318 Causes serious eye damage.

GHS07

Acute Toxicity - Oral 4	H302 Harmful if swallowed.
Acute Toxicity - Dermal 4	H312 Harmful in contact with skin.

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

GHS05 GHS07

· **Signal word** Danger

· **Hazard-determining components of labeling:**
Nitric Acid
Aluminum Nitrate
· **Hazard statements**
May be corrosive to metals.
Harmful if swallowed or in contact with skin.
Causes severe skin burns and eye damage.

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· **Precautionary statements**
Keep only in original container.
Do not breathe dusts or mists.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Wear protective gloves/protective clothing/eye protection/face protection.
If swallowed: Call a poison center/doctor if you feel unwell.
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).
Take off contaminated clothing and wash it before reuse.
Wash contaminated clothing before reuse.
Absorb spillage to prevent material damage.
Store locked up.
Store in corrosive resistant container with a resistant inner liner.
Dispose of contents/container in accordance with local/regional/national/international regulations.
· **Classification system:**
· **NFPA ratings (scale 0 - 4)**

Health = 3
Fire = 0
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**

Health = 3
Fire = 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:**		
CAS: 7697-37-2	Nitric Acid	5.0%
CAS: 7784-27-2	Aluminum Nitrate	0.139%

· **Table of Nonhazardous Ingredients**		
CAS: 7732-18-5	Water	94.259%
CAS: 13446-18-9	Magnesium Nitrate	0.106%
CAS: 7789-02-8	Chromium Nitrate Nonahydrate	0.077%
CAS: 7782-61-8	Ferric Nitrate	0.072%

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CAS: 16919-19-0	Ammonium hexafluorosilicate	0.063%
CAS: 6156-78-1	Manganese Acetate Tetrahydrate	0.045%
CAS: 7631-99-4	Sodium Nitrate	0.037%
CAS: 7722-76-1	Ammonium Phosphate Monobasic	0.037%
CAS: 7757-79-1	Potassium Nitrate	0.026%
CAS: 471-34-1	Calcium Carbonate	0.025%
CAS: 13106-76-8	ammonium molybdate(VI)	0.02%
CAS: 1314-62-1	Vanadium Pentoxide Reagent	0.018%
CAS: 10099-74-8	Lead Nitrate	0.016%
CAS: 7440-02-0	Nickel Metal	0.01%
CAS: 7440-38-2	arsenic	0.01%
CAS: 7440-48-4	cobalt	0.01%
CAS: 7440-50-8	copper	0.01%
CAS: 7440-66-6	Zinc Metal	0.01%
CAS: 7664-39-3	Hydrofluoric Acid 49-51% Aqueous Solution	0.01%

4 First-aid measures

· **Description of first aid measures**
· **General information:**
Immediately remove any clothing soiled by the product.
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
· **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:**
Immediately call a doctor.
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.

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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
CAS: 7784-27-2	Aluminum Nitrate	83 mg/m³
CAS: 13446-18-9	Magnesium Nitrate	16 mg/m³
CAS: 7782-61-8	Ferric Nitrate	22 mg/m³
CAS: 16919-19-0	Ammonium hexafluorosilicate	12 mg/m³
CAS: 6156-78-1	Manganese Acetate Tetrahydrate	13 mg/m³
CAS: 7631-99-4	Sodium Nitrate	3.8 mg/m3
CAS: 7722-76-1	Ammonium Phosphate Monobasic	17 mg/m³
CAS: 7757-79-1	Potassium Nitrate	11 mg/m3
CAS: 471-34-1	Calcium Carbonate	45 mg/m³
CAS: 13106-76-8	ammonium molybdate(VI)	3.1 mg/m³
CAS: 1314-62-1	Vanadium Pentoxide Reagent	0.045 mg/m3
CAS: 10099-74-8	Lead Nitrate	0.24 mg/m³
CAS: 7440-02-0	Nickel Metal	4.5 mg/m³
CAS: 7440-38-2	arsenic	1.5 mg/m³
CAS: 7440-48-4	cobalt	0.18 mg/m³
CAS: 7440-50-8	copper	3 mg/m³
CAS: 7440-66-6	Zinc Metal	6 mg/m³
CAS: 7664-39-3	Hydrofluoric Acid 49-51% Aqueous Solution	1.0 ppm

· **PAC-2:**		
CAS: 7697-37-2	Nitric Acid	24 ppm
CAS: 7784-27-2	Aluminum Nitrate	920 mg/m³
CAS: 13446-18-9	Magnesium Nitrate	180 mg/m³
CAS: 7782-61-8	Ferric Nitrate	110 mg/m³
CAS: 16919-19-0	Ammonium hexafluorosilicate	130 mg/m³
CAS: 6156-78-1	Manganese Acetate Tetrahydrate	22 mg/m³

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CAS: 7631-99-4	Sodium Nitrate	42 mg/m3
CAS: 7722-76-1	Ammonium Phosphate Monobasic	190 mg/m³
CAS: 7757-79-1	Potassium Nitrate	120 mg/m3
CAS: 471-34-1	Calcium Carbonate	210 mg/m³
CAS: 13106-76-8	ammonium molybdate(VI)	22 mg/m³
CAS: 1314-62-1	Vanadium Pentoxide Reagent	0.50 mg/m3
CAS: 10099-74-8	Lead Nitrate	180 mg/m³
CAS: 7440-02-0	Nickel Metal	50 mg/m³
CAS: 7440-38-2	arsenic	17 mg/m³
CAS: 7440-48-4	cobalt	2 mg/m³
CAS: 7440-50-8	copper	33 mg/m³
CAS: 7440-66-6	Zinc Metal	40 mg/m3
CAS: 7664-39-3	Hydrofluoric Acid 49-51% Aqueous Solution	24 ppm

· **PAC-3:**

CAS: 7697-37-2	Nitric Acid	92 ppm
CAS: 7784-27-2	Aluminum Nitrate	5,500 mg/m³
CAS: 13446-18-9	Magnesium Nitrate	1,100 mg/m³
CAS: 7782-61-8	Ferric Nitrate	640 mg/m³
CAS: 16919-19-0	Ammonium hexafluorosilicate	780 mg/m³
CAS: 6156-78-1	Manganese Acetate Tetrahydrate	740 mg/m³
CAS: 7631-99-4	Sodium Nitrate	250 mg/m3
CAS: 7722-76-1	Ammonium Phosphate Monobasic	1,100 mg/m³
CAS: 7757-79-1	Potassium Nitrate	740 mg/m3
CAS: 471-34-1	Calcium Carbonate	1,300 mg/m³
CAS: 13106-76-8	ammonium molybdate(VI)	130 mg/m³
CAS: 1314-62-1	Vanadium Pentoxide Reagent	62 mg/m3
CAS: 10099-74-8	Lead Nitrate	1,100 mg/m³
CAS: 7440-02-0	Nickel Metal	99 mg/m³
CAS: 7440-38-2	arsenic	100 mg/m³
CAS: 7440-48-4	cobalt	20 mg/m³
CAS: 7440-50-8	copper	200 mg/m³
CAS: 7440-66-6	Zinc Metal	240 mg/m3
CAS: 7664-39-3	Hydrofluoric Acid 49-51% Aqueous Solution	44 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.

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· **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.

· **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 remaining constituent has no known exposure limits.

CAS: 7697-37-2 Nitric Acid	
PEL	Long-term value: 5 mg/m³, 2 ppm
REL	Short-term value: 10 mg/m³, 4 ppm Long-term value: 5 mg/m³, 2 ppm
TLV	Short-term value: (4) NIC-0.025 ppm Long-term value: (2) ppm NIC-A4

· **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
· **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.

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· **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:	clear
· **Odor:**	Odorless
· **Odor threshold:**	Not determined.
· **pH-value at 20 °C (68 °F):**	<2
· **Change in condition**	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	83 °C (181.4 °F)
· **Flash point:**	Not applicable.
· **Flammability:**	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:**	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/water):**	Not determined.
· **Viscosity:**	
Dynamic:	Not determined.
Kinematic:	Not determined.

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· **Solvent content:**	
Water:	94.3 %
VOC content:	0.00 % 0.0 g/l / 0.00 lb/gal
Solids content:	0.7 %
· **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	2,641 mg/kg
Inhalative	LC50/4h	60 mg/l

· **Primary irritant effect:**
· **on the skin:** Strong caustic effect on skin and mucous membranes.
· **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:
Harmful
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)**		
CAS: 1314-62-1	Vanadium Pentoxide Reagent	2B
CAS: 10099-74-8	Lead Nitrate	2A
CAS: 7440-02-0	Nickel Metal	2B
CAS: 7440-38-2	arsenic	1
CAS: 7440-48-4	cobalt	2A

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· **NTP (National Toxicology Program)**		
CAS: 10099-74-8	Lead Nitrate	R
CAS: 7440-02-0	Nickel Metal	R
CAS: 7440-38-2	arsenic	K
CAS: 7440-48-4	cobalt	R

· **OSHA-Ca (Occupational Safety & Health Administration)**	
CAS: 7440-38-2	arsenic

12 Ecological information

· **Toxicity**
· **Aquatic toxicity:** No further relevant information available.
· **Persistence and degradability** No further relevant information available.
· **Behavior in environmental systems:**
· **Bioaccumulative potential** No further relevant information available.
· **Mobility in soil** No further relevant information available.
· **Additional ecological information:**
· **General notes:**
Water hazard class 1 (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Must not reach bodies of water or drainage ditch undiluted or unneutralized.
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.
· **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.

14 Transport information

· **UN-Number**	
· **DOT, IMDG, IATA**	UN3264
· **UN proper shipping name**	
· **DOT**	Corrosive liquid, acidic, inorganic, n.o.s. (Nitric Acid)
· **IMDG, IATA**	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Nitric Acid)

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· **Transport hazard class(es)**

· **DOT**

· **Class**	8 Corrosive substances
· **Label**	8

· **IMDG, IATA**

· **Class**	8 Corrosive substances
· **Label**	8
· **Packing group**	
· **DOT, IMDG, IATA**	III
· **Environmental hazards:**	Not applicable.
· **Special precautions for user**	Warning: Corrosive substances
· **Hazard identification number (Kemler code):**	80
· **EMS Number:**	F-A,S-B
· **Segregation groups**	(SGG1) Acids
· **Stowage Category**	B
· **Stowage Code**	SW2 Clear of living quarters.
· **Segregation Code**	SG36 Stow "separated from" SGG18-alkalis. SG49 Stow "separated from" SGG6-cyanides
· **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)**	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 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID), 8, III

15 Regulatory information

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

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· **Sara**

· **Section 355 (extremely hazardous substances):**	
CAS: 7697-37-2	Nitric Acid
CAS: 1314-62-1	Vanadium Pentoxide Reagent
CAS: 7664-39-3	Hydrofluoric Acid 49-51% Aqueous Solution

· **Section 313 (Specific toxic chemical listings):**	
CAS: 7697-37-2	Nitric Acid
CAS: 7784-27-2	Aluminum Nitrate
CAS: 13446-18-9	Magnesium Nitrate
CAS: 7789-02-8	Chromium Nitrate Nonahydrate
CAS: 7782-61-8	Ferric Nitrate
CAS: 7757-79-1	Potassium Nitrate
CAS: 1314-62-1	Vanadium Pentoxide Reagent
CAS: 10099-74-8	Lead Nitrate
CAS: 7440-02-0	Nickel Metal
CAS: 7440-38-2	arsenic
CAS: 7440-48-4	cobalt
CAS: 7440-50-8	copper
CAS: 7440-66-6	Zinc Metal
CAS: 7664-39-3	Hydrofluoric Acid 49-51% Aqueous Solution

· **TSCA (Toxic Substances Control Act):**	
Water	ACTIVE
Nitric Acid	ACTIVE
Ammonium hexafluorosilicate	ACTIVE
Sodium Nitrate	ACTIVE
Ammonium Phosphate Monobasic	ACTIVE
Potassium Nitrate	ACTIVE
Calcium Carbonate	ACTIVE
ammonium molybdate(VI)	ACTIVE
Vanadium Pentoxide Reagent	ACTIVE
Lead Nitrate	ACTIVE
Nickel Metal	ACTIVE
arsenic	ACTIVE
cobalt	ACTIVE
copper	ACTIVE
Zinc Metal	ACTIVE
Hydrofluoric Acid 49-51% Aqueous Solution	ACTIVE

· **Hazardous Air Pollutants**	
CAS: 10099-74-8	Lead Nitrate
CAS: 7440-48-4	cobalt
CAS: 7664-39-3	Hydrofluoric Acid 49-51% Aqueous Solution

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· **Proposition 65**

· **Chemicals known to cause cancer:**	
CAS: 1314-62-1	Vanadium Pentoxide Reagent
CAS: 10099-74-8	Lead Nitrate
CAS: 7440-02-0	Nickel Metal
CAS: 7440-38-2	arsenic
CAS: 7440-48-4	cobalt

· **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)**		
CAS: 10099-74-8	Lead Nitrate	B2
CAS: 7440-38-2	arsenic	A
CAS: 7440-50-8	copper	D
CAS: 7440-66-6	Zinc Metal	D, I, II

· **TLV (Threshold Limit Value)**		
CAS: 13106-76-8	ammonium molybdate(VI)	A3
CAS: 1314-62-1	Vanadium Pentoxide Reagent	A3
CAS: 10099-74-8	Lead Nitrate	A3
CAS: 7440-02-0	Nickel Metal	A5
CAS: 7440-38-2	arsenic	A1
CAS: 7440-48-4	cobalt	A3

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**	
CAS: 7440-02-0	Nickel Metal
CAS: 7440-38-2	arsenic

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

GHS05 GHS07

· **Signal word** Danger

· **Hazard-determining components of labeling:**
Nitric Acid
Aluminum Nitrate
· **Hazard statements**
May be corrosive to metals.
Harmful if swallowed or in contact with skin.
Causes severe skin burns and eye damage.

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· **Precautionary statements**
Keep only in original container.
Do not breathe dusts or mists.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Wear protective gloves/protective clothing/eye protection/face protection.
If swallowed: Call a poison center/doctor if you feel unwell.
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).
Take off contaminated clothing and wash it before reuse.
Wash contaminated clothing before reuse.
Absorb spillage to prevent material damage.
Store locked up.
Store in corrosive resistant container with a resistant inner liner.
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 0.0, 02-18-2025: Creation date for SDS CMC/STN
02/18/2025 / -
· **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
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
Corrosive to Metals 1: Corrosive to metals – Category 1
Acute Toxicity - Oral 4: Acute toxicity – Category 4
Skin Corrosion 1A: Skin corrosion/irritation – Category 1A
Eye Damage 1: Serious eye damage/eye irritation – Category 1