

Safety Data Sheet acc. to OSHA HCS

Date of issue: 06/30/2026

Reviewed on 06/30/2026

1 Identification

- **Product identifier**
- **Trade name:** PEI-034, QCI-034
- **Other means of identification**
- **Application of the substance / the mixture** For Laboratory Use Only
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
NSI Lab Solutions
7212 ACC Blvd.,
Raleigh, NC 27617
USA
- **Information department:** Product safety department
- **Emergency telephone number:** During normal opening times: +1 (919) 789-3000

* 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS08 Health hazard

Carcinogenicity 2

H351 Suspected of causing cancer.



GHS05 Corrosion

Skin corrosion 1B

H314 Causes severe skin burns and eye damage.

Eye damage 1

H318 Causes serious eye damage.



GHS07

Sensitization - skin 1

H317 May cause an allergic skin reaction.

Specific target organ toxicity (single exposure) 3 H335 May cause respiratory irritation.

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



GHS05



GHS07



GHS08

- **Signal word** Danger

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· **Hazard-determining components of labeling:**

hydrochloric acid
nitric acid
Beryllium acetate, basic

· **Hazard statements**

Causes severe skin burns and eye damage.
May cause an allergic skin reaction.
Suspected of causing cancer.
May cause respiratory irritation.

· **Precautionary statements**

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not breathe dusts or mists.
Wash thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
If swallowed: Rinse mouth. Do NOT induce vomiting.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or 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.
If exposed or concerned: Get medical advice/attention.
Specific treatment (see on this label).
Take off contaminated clothing and wash it before reuse.
If skin irritation or rash occurs: Get medical advice/attention.
Wash contaminated clothing before reuse.
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

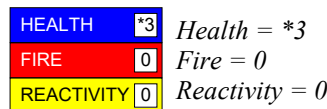
· **Information pertaining to particular dangers for man and environment:**

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



· **HMIS-ratings (scale 0 - 4)**



· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.
· **vPvB:** Not applicable.

· **Classification according to (d)(1)(ii) of § 1910.1200**

The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.

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· **Hazards not otherwise classified**

There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

* 3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

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

· **Dangerous components:**

7647-01-0	hydrochloric acid	10%
7697-37-2	nitric acid	5%
19049-40-2	Beryllium acetate, basic	≤0.1%

· **Non-hazardous components**

7732-18-5	water, distilled, conductivity or of similar purity	65–85%
10042-76-9	strontium nitrate	≤0.1%
10043-35-3	boric acid	<0.1%
7429-90-5	aluminium	≤0.1%
7439-89-6	iron	≤0.1%
10022-31-8	barium nitrate	≤0.1%
6156-78-1	acetic acid, manganese(2+) salt, tetrahydrate	≤0.1%
7440-02-0	nickel	<0.1%
7440-31-5	tin	≤0.1%
7440-32-6	titanium	≤0.1%
7440-66-6	zinc powder -zinc dust (stabilized)	≤0.1%
7803-55-6	ammonium trioxovanadate	≤0.1%
7439-92-1	lead	<0.03%
554-13-2	lithium carbonate	≤0.1%
7439-98-7	molybdenum	≤0.1%
7440-22-4	silver	<0.1%
7440-28-0	thallium	≤0.1%
7440-36-0	antimony	≤0.1%
7440-38-2	arsenic	<0.1%
7440-43-9	cadmium	<0.1%
7440-47-3	chromium	<0.1%
7440-48-4	cobalt	<0.1%
7440-50-8	copper	≤0.1%
7782-49-2	selenium	≤0.1%

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.

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- **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.
- **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:**
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.
- **Protective Action Criteria for Chemicals**

· PAC-1:

7647-01-0	hydrochloric acid	1.8 ppm
10042-76-9	strontium nitrate	5.7 mg/m ³
10043-35-3	boric acid	6 mg/m ³
7439-89-6	iron	1.8 mg/m ³
10022-31-8	barium nitrate	2.9 mg/m ³
6156-78-1	acetic acid, manganese(2+) salt, tetrahydrate	13 mg/m ³
7440-02-0	nickel	0.24 mg/m ³
7440-31-5	tin	6 mg/m ³
7440-32-6	titanium	30 mg/m ³
7803-55-6	ammonium trioxovanadate	0.058 mg/m ³
7439-92-1	lead	0.15 mg/m ³
554-13-2	lithium carbonate	3.1 mg/m ³
7439-98-7	molybdenum	30 mg/m ³
7440-22-4	silver	0.3 mg/m ³
7440-28-0	thallium	0.06 mg/m ³
7440-36-0	antimony	1.5 mg/m ³
7440-38-2	arsenic	1.5 mg/m ³
7440-43-9	cadmium	0.10 mg/m ³

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7440-47-3	chromium	1.5 mg/m ³
7440-48-4	cobalt	0.18 mg/m ³
7440-50-8	copper	3 mg/m ³
7782-49-2	selenium	0.60 mg/m ³

· PAC-2:

7647-01-0	hydrochloric acid	22 ppm
10042-76-9	strontium nitrate	62 mg/m ³
10043-35-3	boric acid	23 mg/m ³
7439-89-6	iron	20 mg/m ³
10022-31-8	barium nitrate	350 mg/m ³
6156-78-1	acetic acid, manganese(2+) salt, tetrahydrate	22 mg/m ³
7440-02-0	nickel	50 mg/m ³
7440-31-5	tin	67 mg/m ³
7440-32-6	titanium	330 mg/m ³
7803-55-6	ammonium trioxovanadate	0.64 mg/m ³
7439-92-1	lead	120 mg/m ³
554-13-2	lithium carbonate	11 ppm
7439-98-7	molybdenum	330 mg/m ³
7440-22-4	silver	3.3 mg/m ³
7440-28-0	thallium	3.3 mg/m ³
7440-36-0	antimony	13 mg/m ³
7440-38-2	arsenic	17 mg/m ³
7440-43-9	cadmium	0.76 mg/m ³
7440-47-3	chromium	83 mg/m ³
7440-48-4	cobalt	2 mg/m ³
7440-50-8	copper	33 mg/m ³
7782-49-2	selenium	17 mg/m ³

· PAC-3:

7647-01-0	hydrochloric acid	100 ppm
10042-76-9	strontium nitrate	370 mg/m ³
10043-35-3	boric acid	830 mg/m ³
7439-89-6	iron	120 mg/m ³
10022-31-8	barium nitrate	2,100 mg/m ³
6156-78-1	acetic acid, manganese(2+) salt, tetrahydrate	740 mg/m ³
7440-02-0	nickel	99 mg/m ³
7440-31-5	tin	400 mg/m ³
7440-32-6	titanium	2,000 mg/m ³
7803-55-6	ammonium trioxovanadate	12 mg/m ³
7439-92-1	lead	700 mg/m ³
554-13-2	lithium carbonate	68 ppm
7439-98-7	molybdenum	2,000 mg/m ³
7440-22-4	silver	20 mg/m ³
7440-28-0	thallium	20 mg/m ³

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7440-36-0	antimony	80 mg/m ³
7440-38-2	arsenic	100 mg/m ³
7440-43-9	cadmium	4.7 mg/m ³
7440-47-3	chromium	500 mg/m ³
7440-48-4	cobalt	20 mg/m ³
7440-50-8	copper	200 mg/m ³
7782-49-2	selenium	100 mg/m ³

· **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.

7 Handling and storage

· **Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

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

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

7647-01-0 hydrochloric acid	
PEL	Ceiling limit value: 7 mg/m ³ , 5 ppm
REL	Ceiling limit value: 7 mg/m ³ , 5 ppm
TLV	Ceiling limit value: 2 ppm
A4	
7697-37-2 nitric acid	
TLV	Short-term value: 10 mg/m ³ , 4 ppm
	Long-term value: 5.2 mg/m ³ , 2 ppm

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**

· **Appropriate engineering controls** No further data; see section 7.

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

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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.

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.

· **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**

· **Physical state**

Liquid

· **Color:**

According to product specification

· **Odor:**

Characteristic

· **Odor threshold:**

Not determined.

· **Melting point/Melting range:**

Undetermined.

· **Boiling point/Boiling range:**

100 °C (212 °F)

· **Flammability:**

Not applicable.

· **Explosion limits:**

· **Lower:**

Not determined.

· **Upper:**

Not determined.

· **Flash point:**

Not applicable.

· **Decomposition temperature:**

Not determined.

· **pH-value:**

Not determined.

· **Viscosity:**

· **Kinematic:**

Not determined.

· **Dynamic:**

Not determined.

· **Solubility in / Miscibility with**

· **Water:**

Fully miscible.

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· Partition coefficient (n-octanol/water):	Not determined.
· Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)
· Vapor pressure:	
· Density:	Not determined.
· Relative density	Not determined.
· Vapor density	Not determined.
· Particle characteristics	Not applicable.
· Other information	
· Appearance:	
· Form:	Fluid
· Important information on protection of health and environment, and on safety.	
· Ignition temperature:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Solvent content:	
· Water:	84.4 %
· VOC content:	0.00 %
	0.0 g/l / 0.00 lb/gal
· Solids content:	≤0.6 %
· Change in condition	
· Evaporation rate	Not determined.

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	≥9,000 mg/kg (rabbit)
Inhalative	LC50/4 h	≥53 mg/l (ATE)
7647-01-0 hydrochloric acid		
Oral	LD50	900 mg/kg (rabbit)
7697-37-2 nitric acid		
Inhalative	LC50/4 h	2.65 mg/l (ATE)

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

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Strong irritant with the danger of severe eye injury.

· **Sensitization:** Sensitization possible through skin contact.

· **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.

· **Interactive effects** No interactive effects between components are known.

· **Carcinogenic categories**

· IARC (International Agency for Research on Cancer)		
7647-01-0	hydrochloric acid	3
19049-40-2	Beryllium acetate, basic	1
7440-02-0	nickel	2B
7439-92-1	lead	2B
7440-38-2	arsenic	1
7440-43-9	cadmium	1
7440-47-3	chromium	3
7440-48-4	cobalt	2A
7782-49-2	selenium	3
· NTP (National Toxicology Program)		
19049-40-2	Beryllium acetate, basic	K
7440-02-0	nickel	R
7439-92-1	lead	R
7440-38-2	arsenic	K
7440-43-9	cadmium	K
7440-48-4	cobalt	R
· OSHA-Ca (Occupational Safety & Health Administration)		
7440-38-2	arsenic	
7440-43-9	cadmium	

· **Alternative sources for toxicological information** No non-standard sources for toxicological information where used.

12 Ecological information

· **Toxicity**

· **Aquatic toxicity:** No further relevant information available.

· **Persistence and degradability** No further relevant information available.

· **Bioaccumulative potential** No further relevant information available.

· **Mobility in soil** No further relevant information available.

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **Other adverse effects**

· **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.

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Must not reach bodies of water or drainage ditch undiluted or unneutralized.

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. (Hydrochloric acid)
· IMDG	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (HYDROCHLORIC ACID)
· IATA	Corrosive liquid, acidic, inorganic, n.o.s. (HYDROCHLORIC ACID)
· Transport hazard class(es)	
· DOT	
	
· Class	8 Corrosive substances
· Label	8
· IMDG, IATA	
	
· Class	8 Corrosive substances
· Label	8
· Packing group	
· DOT, IMDG, IATA	II
· Environmental hazards:	Not applicable.
· Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· DOT	
· Quantity limitations	On passenger aircraft/rail: 1 L On cargo aircraft only: 30 L

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· IMDG	
· Limited quantities (LQ)	IL
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· 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
· UN "Model Regulation":	UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (HYDROCHLORIC ACID), 8, II

*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):	
7647-01-0	hydrochloric acid
· Section 313 (Specific toxic chemical listings):	
7647-01-0	hydrochloric acid
10042-76-9	strontium nitrate
19049-40-2	Beryllium acetate, basic
7429-90-5	aluminium
10022-31-8	barium nitrate
7440-02-0	nickel
7803-55-6	ammonium trioxovanadate
7439-92-1	lead
554-13-2	lithium carbonate
7440-22-4	silver
7440-28-0	thallium
7440-36-0	antimony
7440-38-2	arsenic
7440-43-9	cadmium
7440-47-3	chromium
7440-48-4	cobalt
7440-50-8	copper
7782-49-2	selenium
· TSCA (Toxic Substances Control Act):	
7732-18-5	water, distilled, conductivity or of similar purity
	ACTIVE

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7647-01-0	hydrochloric acid	ACTIVE
10042-76-9	strontium nitrate	ACTIVE
10043-35-3	boric acid	ACTIVE
7429-90-5	aluminium	ACTIVE
7439-89-6	iron	ACTIVE
10022-31-8	barium nitrate	ACTIVE
7440-02-0	nickel	ACTIVE
7440-31-5	tin	ACTIVE
7440-32-6	titanium	ACTIVE
7803-55-6	ammonium trioxovanadate	ACTIVE
7439-92-1	lead	ACTIVE
554-13-2	lithium carbonate	ACTIVE
7439-98-7	molybdenum	ACTIVE
7440-22-4	silver	ACTIVE
7440-28-0	thallium	ACTIVE
7440-36-0	antimony	ACTIVE
7440-38-2	arsenic	ACTIVE
7440-43-9	cadmium	ACTIVE
7440-47-3	chromium	ACTIVE
7440-48-4	cobalt	ACTIVE
7440-50-8	copper	ACTIVE
7782-49-2	selenium	ACTIVE

· Hazardous Air Pollutants

7647-01-0	hydrochloric acid
7439-92-1	lead
7440-48-4	cobalt

· Proposition 65**· Chemicals known to cause cancer:**

19049-40-2	Beryllium acetate, basic
7440-02-0	nickel
7439-92-1	lead
7440-38-2	arsenic
7440-43-9	cadmium
7440-48-4	cobalt

· Chemicals known to cause reproductive toxicity for females:

7439-92-1	lead
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· Chemicals known to cause reproductive toxicity for males:

7439-92-1	lead
7440-43-9	cadmium

· Chemicals known to cause developmental toxicity:

7439-92-1	lead
554-13-2	lithium carbonate

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7440-43-9 cadmium

· **Carcinogenic categories**· **EPA (Environmental Protection Agency)**

10043-35-3	boric acid	I (oral)
10022-31-8	barium nitrate	D, CBD(inh), NL(oral)
7440-66-6	zinc powder -zinc dust (stabilized)	II
7439-92-1	lead	B2
7440-22-4	silver	D
7440-38-2	arsenic	A
7440-43-9	cadmium	B1
7440-47-3	chromium	D
7440-50-8	copper	D
7782-49-2	selenium	D

· **TLV (Threshold Limit Value)**

7647-01-0	hydrochloric acid	A4
10043-35-3	boric acid	A4
7429-90-5	aluminium	A4
10022-31-8	barium nitrate	A4
7440-02-0	nickel	A5
7439-92-1	lead	A3
7439-98-7	molybdenum	A3
7440-38-2	arsenic	A1
7440-43-9	cadmium	A2
7440-47-3	chromium	A4
7440-48-4	cobalt	A3

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

19049-40-2	Beryllium acetate, basic
7440-02-0	nickel
7440-38-2	arsenic
7440-43-9	cadmium

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

GHS05

GHS07

GHS08

· **Signal word** Danger· **Hazard-determining components of labeling:**

hydrochloric acid

nitric acid

Beryllium acetate, basic

· **Hazard statements**

Causes severe skin burns and eye damage.

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*May cause an allergic skin reaction.**Suspected of causing cancer.**May cause respiratory irritation.***· Precautionary statements***Obtain special instructions before use.**Do not handle until all safety precautions have been read and understood.**Do not breathe dusts or mists.**Wash thoroughly after handling.**Use only outdoors or in a well-ventilated area.**Contaminated work clothing must not be allowed out of the workplace.**Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.**If swallowed: Rinse mouth. Do NOT induce vomiting.**If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or 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.**IF exposed or concerned: Get medical advice/attention.**Specific treatment (see on this label).**Take off contaminated clothing and wash it before reuse.**If skin irritation or rash occurs: Get medical advice/attention.**Wash contaminated clothing before reuse.**Store in a well-ventilated place. Keep container tightly closed.**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:** *- Department Technical Manager***· Date of previous version** *04/15/2026***· Date of preparation** *06/30/2026***· 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**Skin corrosion 1B: Skin corrosion/irritation – Category 1B**Eye damage 1: Serious eye damage/eye irritation – Category 1*

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*Sensitization - skin 1: Skin sensitisation – Category 1**Carcinogenicity 2: Carcinogenicity – Category 2**Specific target organ toxicity (single exposure) 3: Specific target organ toxicity (single exposure) – Category 3*** **Data compared to the previous version altered.***

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