



PRODUCT: PHOSPHORIC ACID PURE (PHACPU) REVISION:11 DATED: 15/09/2023 PAGE 1 of 11

**PRODUCT SPECIFICATION**

Product Name	Phosphoric Acid Pure
Product Grade	This product is suitable as a food additive
Product Specification	<a href="#">PHACPU/7</a> (16/03/SK)

**SALES SPECIFICATION**

	Pure Grade	Pure Grade	Pure Grade	Pure Grade	Pure Grade
	85%	75%	81.5%	67%	25%
Chemical Formula	H <sub>3</sub> PO <sub>4</sub>	H <sub>3</sub> PO <sub>4</sub>	H <sub>3</sub> PO <sub>4</sub>	H <sub>3</sub> PO <sub>4</sub>	H <sub>3</sub> PO <sub>4</sub>
Appearance	Clear liquid	Clear liquid	Clear liquid	Clear liquid	Clear liquid
H <sub>3</sub> PO <sub>4</sub> content	85% ± 0.3%	75% ± 0.5%	81.5% ± 0.5%	67% ± 0.5%	25.0 ± 1.0%
P <sub>2</sub> O <sub>5</sub>	61.6% ± 0.3%	54.3% ± 0.4%	60.1% ± 0.4%	48.5% ± 0.4%	18.1 ± 1.0%
Freezing Point (°C)	+21	-20	+7	No data	-9
S.G. Approx.	1.686	1.574	1.644	1.500	1.19
As	0.5 ppm max	0.5 ppm max	0.5 ppm max	0.5 ppm max	0.5 ppm max
Cd	0.2 ppm max	0.2 ppm max	0.2 ppm max	0.2 ppm max	0.2 ppm max
Ca	10.0 ppm max	10.0 ppm max	10.0 ppm max	10.0 ppm max	10.0 ppm max
Cl	7.0 ppm max	7.0 ppm max	7.0 ppm max	7.0 ppm max	7.0 ppm max
Cr	1.0 ppm max	1.5 ppm max	1.5 ppm max	1.5 ppm max	1.5 ppm max
Cu	0.7 ppm max	0.7 ppm max	0.7 ppm max	0.7 ppm max	0.7 ppm max
F	10.0 ppm max	10.0 ppm max	10.0 ppm max	10.0 ppm max	10.0 ppm max
Fe	5.0 ppm max	5.0 ppm max	5.0 ppm max	5.0 ppm max	5.0 ppm max
Hg	0.1 ppm max	0.1 ppm max	0.1 ppm max	0.1 ppm max	0.1 ppm max
Ni	0.5 ppm max	0.5 ppm max	0.5 ppm max	0.5 ppm max	0.5 ppm max
Sb	4 ppm max	4 ppm max	4 ppm max	4 ppm max	4 ppm max
Se	1 ppm max	1 ppm max	1 ppm max	1 ppm max	1 ppm max
SO <sub>4</sub>	109.0 ppm max	109.0 ppm max	109.0 ppm max	109.0 ppm max	109.0 ppm max
V	1.0 ppm max	1.0 ppm max	1.0 ppm max	1.0 ppm max	1.0 ppm max
Pb	0.3 ppm max	0.3 ppm max	0.3 ppm max	0.3 ppm max	0.3 ppm max
Nitrate	<5 ppm	<5 ppm	<5 ppm	<5 ppm	<5 ppm
Volatile Acids	<10 ppm	<10 ppm	<10 ppm	<10 ppm	<10 ppm
Heavy Metals as Pb	5.0 ppm max	5.0 ppm max	5.0 ppm max	5.0 ppm max	5.0 ppm max
Colour Absorption at 418 nm	20 ppm max	20 ppm max	20 ppm max	20 ppm max	20 ppm max

**Applications**

Typical examples: production of phosphate salts, detergents and cleaners, metal treatment, food additives, cane sugar, pet food proteins, fermentation, liquid fertilizers, textile fibres, sewage treatment, ceramics, paints enamels, vegetable oil degumming and pigment production

**Compliance**

Our phosphoric acid fully complies with BS EN 974:2003 and DIN EN 974:2004 specifying the purity requirements for phosphoric acid used for the treatment of water intended for human consumption.  
Our purified phosphoric acid meets the requirements of current European regulations (Directive 2012/231/EU) and FCC 8.  
Our phosphoric acid is produced out of phosphate rock, sulphuric acid, hydrochloric acid and other natural or synthetic raw materials, which none of them is floral or animal or any biological origin. No animal derived material are used during manufacturing process.

**NOTES**

**Exclusion of Liability**

Information contained in this publication is accurate to the best of the knowledge and belief of Tennants.

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**Health and Safety**

A Material Safety Data Sheet has been issued describing the health, safety and environmental properties of this product,



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identifying the potential hazards and giving advice on the handling precautions and emergency procedures. This must be consulted fully before handling, storage and use.



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## SAFETY DATA SHEET

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

#### 1.1 Product identifier

Trade name: Phosphoric acid 25-93%, food grade  
Synonyms: Orthophosphoric acid 25-93%  
CAS No. 7664-38-2  
EC No. 231-633-2  
Index No. 015-011-00-6  
Tariff No. 28092000  
REACH Registration No. 01-2119485924-24-XXXX

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant Identified Uses:

Food additives  
Intermediate  
Laboratory chemicals  
Descaling compound/ Scale solvent  
Corrosion inhibitors  
pH-corrective agent  
Processing aid  
Degreasing agent  
Fertilizer  
Metal surface treatment  
No uses advised against.

#### 1.3 Details of the supplier of the safety data sheet

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Fax No. 44(0)161 203 4298

Emergency Tel No. 44(0)844 335 0001 (24 hrs)  
Email: [msds@tennantsdistribution.com](mailto:msds@tennantsdistribution.com)

### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

##### Classification according to Regulation (EC) No 1272/2008

Met. Corr.1 H290 May be corrosive to metals.  
Skin Corr. 1B H314 Causes severe skin burns and eye damage.  
Acute Tox. Oral. 4 H302 Harmful if swallowed

#### 2.2 Label elements

##### Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the CLP regulation.  
Hazard pictograms



**Signal Word:** Danger

##### Hazard Statements

H290 May be corrosive to metals.  
H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.

##### Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.



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P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

**2.3 Other hazards**

**Results of PBT and vPvB assessment**

PBT: Not applicable.

vPvB: Not applicable.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1 Substances**

CAS No.	7664-38-2
Description	Orthophosphoric acid 25-93%
EC number:	231-633-2
Index number:	015-011-00-6
SVHC	None
REACH Registration No.	01-2119485924-24-XXXX

**4. FIRST AID MEASURES**

**4.1 Description of first aid measures**

**General information:**

Do not leave affected persons unattended. Personal protection for the First Aider. Involve doctor immediately. Immediately remove any clothing soiled by the product. In case of irregular breathing or respiratory arrest provide artificial respiration. Provide oxygen treatment if affected person has difficulty breathing.

**After Inhalation:**

Take affected persons into fresh air and keep quiet. Supply fresh air. Call a doctor immediately.

**After Skin Contact:**

Immediately wash with water and soap and rinse thoroughly. Call a doctor immediately.

**After Eye Contact:**

Rinse opened eye for several minutes under running water. Call a doctor immediately.

**After Swallowing:**

Rinse out mouth and then drink plenty of water. Do not induce vomiting; call for medical help immediately. NOTE: Never give an unconscious person anything to drink.

**4.2 Most important symptoms and effects, both acute and delayed**

Causes severe skin burns and eye damage. Gastric or intestinal disorders

**4.3 Indication of any immediate medical attention and special treatment needed**

Medical supervision for at least 48 hours.

**5. FIRE FIGHTING MEASURES**

**Suitable Extinguishing Media:**

The product is not flammable

Use fire extinguishing methods suitable to surrounding conditions

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam

**For safety reasons unsuitable extinguishing agents:** Water with full jet

**Special hazards caused by the substance, its products of combustion or resulting gases:**

In case of fire, the following can be released: Phosphorus oxides (e.g. P<sub>2</sub>O<sub>5</sub>)

**Protective equipment:**

Wear self contained respiratory protection. Wear fully protective suit

**Additional information**

Cool endangered receptacles with water spray. Collect contaminated fire fighting water separately. It must not enter the sewage system.

**6. ACCIDENTAL RELEASE MEASURES**

**6.1 Personal precautions, protective equipment and emergency procedures:**

Wear protective equipment. Keep unprotected persons away

Mount respiratory protective device

**6.2 Environmental precautions:** Dilute with plenty of water

Do not allow to enter sewers/surface or ground water

**6.3 Methods and material for containment and cleaning up:**

Absorb with liquid binding material



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Use neutralising agent

Dispose contaminated materials as waste according to item 13

Ensure adequate ventilation

**6.4 Reference to other sections** See Section 8 for information on personal protection equipment.

## **7. HANDLING AND STORAGE**

### **7.1 Precautions for safe handling**

Keep receptacles tightly sealed. Ensure good ventilation/exhaustion at the workplace. When diluting always pour product into water and not vice versa

**Information about fire – and explosion protection:** No special measures required

### **7.2 Conditions for safe storage, including any incompatibilities**

**Requirements to be met by storerooms and receptacles:**

Store only in the original receptacle. Use polyolefine receptacles. Provide acid-resistant floor. Suitable material for receptacles and pipes: Stainless steel.

**Information about storage in one common storage facility:**

Store away from reducing agents. Store away from metals. Do not store together with alkalis (caustic solutions)

**Further information about storage conditions:** Keep container tightly sealed

**Recommended storage temperature:**

Phosphoric acid, solution 93%: +35 - +42°C

85%: +28 - +42°C

80%: +15 - +42°C

<75%: no need in heating

(For other acid concentrations please use interpolation)

**7.3 Specific end use(s)** No further relevant information available.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Additional information about design of technical facilities:** no further data: see item 7

**Ingredients with limit values that require monitoring in the workplace:**

### **7664-38-2 Orthophosphoric Acid**

IOELV (EU) Short-term value: 2 mg/m<sup>3</sup>

Long-term value: 1 mg/m<sup>3</sup>

PEL (USA) 1 mg/m<sup>3</sup>

REL (USA) Short-term value: 3mg/m<sup>3</sup>

Long-term value: 1 mg/m<sup>3</sup>

TLV (USA) Short-term value: 3 mg/m<sup>3</sup>

TLV (USA) Long-term value: 1 mg/m<sup>3</sup>

AGW (Germany) Long-term value: 2 E mg/m<sup>3</sup>

2(I);DFG, EU, AGS, Y

### **DNELs**

For workers:

Long-term-local effects (inhalation) DNEL: 1 mg/m<sup>3</sup>

Acute local effects (inhalation) DNEL: 2 mg/m<sup>3</sup>

Long-term-systemic effects (inhalation) DNEL: 10.7 mg/m<sup>3</sup>

For general population:

Long-term-local effects (inhalation) DNEL: 0.36 mg/m<sup>3</sup>

Long-term-systemic effects (oral) DNEL: 4.57 mg/kg bw/day

### **PNECs**

Not applicable

Phosphoric acid toxicity is related to its acidic nature. A generic PNEC (water) cannot be derived as the effects are highly depending on the pH of the receiving water and its buffer capacity highly variable.

### **8.2 Exposure controls**

**General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals. Do not eat or drink while working.

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 and skin.

**Respiratory protection:**

Use suitable respiratory protective device only when aerosol or mist is formed.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure

use self-contained respiratory protective device. Short term filter device: ABEK+P Filter A/P2 (EN 14387, EN 143)

**Protection of hands:** Protective gloves



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The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

**Material of gloves**

Butyl rubber, BR (0.7 mm)

Nitrile rubber, NBR (0.4 mm)

Chloroprene rubber, CR (0.5 mm)

Fluorocarbon rubber (Viton) (0.4 mm)

Natural rubber, NR (0.5 mm)

Neoprene gloves (0.5 mm)

**Penetration time of glove material**

≥8 h

**Not suitable are gloves made of the following materials:** Leather gloves

**Eye protection:**

Tightly sealed goggles (EN 166)

**Body protection:**

Acid resistant protective clothing. Boots

**Limitation and supervision of exposure into the environment**

Avoid discharging of phosphoric acid solutions into municipal wastewater, surface water or soils, when such discharges are expected to cause significant pH changes.

**Risk management measures**

Regular control of the pH value previous to or during discharges into open waters is required. Discharges should be carried out as to minimize pH changes in receiving surface waters. In general most aquatic organisms can tolerate pH values in the range of 6-9.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 Information on basic physical and chemical properties**

**General Information**

Appearance: Form: Solution

Colour: Colourless

Odour: Odourless

Odour threshold: Not applicable

pH-value (23 g/l) at 20°C: <1

**Change in condition**

Melting point/Melting range: -18 + 27°C (75-93% EC A.1)

Boiling point/Boiling range: 108 - 171°C (50-93%, 1013 hPa)

Flash point: Not applicable.

This product is inorganic substance.

Flammability (solid, gaseous): Product is not flammable. (based on molecular structure)

Ignition temperature: Not applicable

Decomposition temperature: >200°C Thermal decomposition on losing water.

Self-igniting: Product is not self igniting. (based on molecular structure)

Danger of explosion: Product does not present an explosion hazard. (based on molecular structure)

Explosion limits: None

Oxidizing properties  
properties. None. The substance does not contain any groups associated with oxidising

Vapour pressure at 20°C: 4 Pa

Relative density at 20°C 1.574-1.791 (75-93%, EC A.3)

Vapour density 3.4 (air=1)

Evaporation rate Not determined.

Solubility in / Miscibility with  
water at 20°C: >1000 g/l

Segregation coefficient

(n-octanol/water): Not applicable. This substance is inorganic chemical.

Viscosity at 20°C: 1.1 - 600 mPa.s (5% - 105%)

**9.2 Other information** No further relevant information available.

**10. STABILITY AND REACTIVITY**

**10.1 Reactivity**

Corrosive action on metals. Reacts with reducing agents. Reacts with alkali (lyes). Ammonia (NH<sub>3</sub>), fluorine, sulphur trioxide (SO<sub>3</sub>), phosphorus pentoxide (P<sub>2</sub>O<sub>5</sub>).



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**10.2 Chemical stability**

No decomposition if used and stored according to specifications.

**10.3 Possibility of hazardous reactions**

Reacts with metals forming hydrogen. Reacts with alkali (lyes).

**10.4 Conditions to avoid**

To avoid thermal decomposition do not overheat.

**10.5 Incompatible materials:**

Alkalies. Metals

**10.6 Hazardous decomposition products:**

Phosphorus oxides (e.g.  $P_2O_5$ )

**11. TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects**

**Acute toxicity:**

**LD/LC50 values relevant for classification:**

Oral LD50 300 <LD50 ≤2000 mg/kg (rat) (equivalent to OECD 423)

**Specific symptoms in biological assay:**

Phosphoric acid is classified as corrosive to the skin, therefore, no need to perform an acute dermal and an acute inhalative toxicity tests.

**Primary irritant effect:**

**Skin corrosion/irritation:**

Causes severe skin burns and eye damage.

**Serious eye damage/irritation:**

Causes severe skin burns and eye damage.

**Respiratory or skin sensitisation**

No sensitising effects known.

Phosphoric acid is classified as skin corrosive, thus a further assessment for sensitisation is not necessary.

**Additional toxicological information:**

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of oesophagus and stomach.

**Toxicokinetics, metabolism and distribution**

This substance is not considered to have bioaccumulative potential as it is highly soluble in water and phosphate levels in the body are regulated via homeostasis.

For risk assessment purposes oral absorption is considered to be 50-100%, inhalation absorption 100% and dermal absorption 50-100%.

Wide distribution throughout the body is to be expected and excretion will be predominantly via urine. Supporting studies show increased phosphorus retention in bone and increased urinary phosphorus excretion after prolonged dietary administration of phosphoric acid and support the initial toxicokinetic assessment.

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction) Germ cell mutagenicity**

None. (according to OECD 471, OECD 473, OECD 476 test(s))

**Carcinogenicity:**

No data available (no carcinogenicity study needs to be performed as this substance is not genotoxic)

**Toxicity for reproduction:**

No classification is necessary.

Reproductive toxicity: NOAEL ≥500 mg/kg bw/day ; rat; oral (OECD 422) developmental toxicity: NOAEL ≥410 mg/kg bw/day ; rat; oral

Maternal toxicity: NOAEL ≥410 mg/kg bw/day ; rat; oral (equivalent to OECD 414)

**STOT-single exposure**

Based on available data, the classification criteria are not met.

**STOT-repeated exposure**

Based on available data, the classification criteria are not met.

**7664-38-2 Orthophosphoric acid**

Oral NOAEL 250 mg/kg bw/day (rat) (OECD 422 (sub chronic)) should not be classified for STOT - repeated exposure

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**12. ECOLOGICAL INFORMATION**

**12.1 Toxicity**

**Aquatic toxicity:**



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Phosphoric acid toxicity is related to its acidic nature and, therefore, is more related to concentration than to dose.  
EC50/48 h (static) >100 mg/L (Daphnia magna) (OECD 202, freshwater)  
EC50/72 h (static) >100 mg/L (algae) (OECD 201, freshwater)  
median lethal pH 96h : 3-3.25 (Bluegill fish) fish mortality is caused by low pH values

**12.2 Persistence and degradability**

The substance is inorganic; therefore no biodegradation tests are applicable.

Phosphoric acid dissociates in water into  $H_3O^+$ ,  $H_2PO_4^-$ ,  $HPO_4^{2-}$  ions, which cannot be further degraded.

**Other information:**

The product should not get in high quantities into waste water because it may act as a plant nutrient and cause eutrophication.

**12.3 Bioaccumulative potential**

Does not accumulate in organisms

This substance is highly water soluble and dissociating.

Phosphoric acid dissociates in water into  $H_3O^+$ ,  $H_2PO_4^-$ ,  $HPO_4^{2-}$  ions, which are ubiquitous in the environment.

Phosphoric acid is absorbed in form of phosphate anions. This anion is an essential component of the body.

**12.4 Mobility in soil**

This substance is highly water soluble and dissociating.

When spilled onto soil, phosphoric acid will infiltrate downward and will be partially neutralized by dissolving some of the soil material. On reaching the ground table phosphoric acid will be dispersed and diluted. Therefore, the environmental assessment should be limited to the aquatic compartment.

**Behaviour in sewage processing plants:**

Phosphoric acid is of low toxicity to microorganisms, since in sewage treatment plants the microorganisms are essentially exposed to mainly  $H_2PO_4^-$  and  $HPO_4^{2-}$  ions, which are an essential nutrient for them, and not to parent phosphoric acid or to low pH values.

**12.5 Results of PBT and vPvB assessment**

PBT: No assessment is required for inorganic substances.

vPvB: No assessment is required for inorganic substances.

**12.6 Other adverse effects**

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Rinse off 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.

**13. DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods**

**Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Disposal must be made according to official regulations.

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

**European waste catalogue** 06 01 04 phosphoric and phosphorous acid

**Uncleaned packaging:**

**Recommendation:**

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

Packagings that may not be cleansed are to be disposed of in the same manner as the product. Disposal must be made in accordance with Local Authority requirements.

**Recommended cleansing agents:** Water, if necessary together with cleansing agents

**14. TRANSPORT INFORMATION**

**DOT Regulations**



Hazard class: 8  
Identification number: UN1805  
Packing group: III  
Proper shipping name (technical name): PHOSPHORIC ACID, SOLUTION  
Label: 8

*Continued*





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**Land Transport ADR/RID (cross-border)**



**ADR/RID class:** 8 (Cl) Corrosive substances  
**Danger code (Kemler):** 80  
**UN Number:** 1805  
**Packaging group:** III  
**Hazard label:** 8  
**Description of goods:** 1805 PHOSPHORIC ACID, SOLUTION  
**Maritime transport IMDG:**



**IMDG class:** 8  
**UN Number:** 1805  
**Label:** 8  
**Packaging group:** III  
**EMS Number:** F-A, S-B  
**Maritime pollutant:** No  
**Proper shipping name:** PHOSPHORIC ACID, SOLUTION  
**Air transport ICAO-TI and IATA-DGR:**



**ICAO/IATA Class:** 8  
**UN/ID Number:** 1805  
**Label:** 8  
**Packaging group:** III  
**Proper shipping name:** PHOSPHORIC ACID, SOLUTION  
**UN 'Model Regulation':** UN1805, PHOSPHORIC ACID, SOLUTION, 8, III  
**Transport/Additional information:**  
**ADR**  
Tunnel restriction code E  
UN "Model Regulation": UN1805, PHOSPHORIC ACID, SOLUTION, 8, III

**15. REGULATORY INFORMATION**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Directive 2000/60 EC (phosphates)

**Labelling according to Regulation (EC) No 1272/2008**

The substance is classified and labelled according to the CLP regulation.

**National regulations:**

Control of Explosive Precursors and Poisons Regulations 2023: This product is classified as a regulated explosive precursor.

Information about limitation of use: Employment restrictions concerning juveniles must be observed.

**Other regulations, limitations and prohibitive regulations**

**Substances of very high concern (SVHC) according to REACH, Article 57** None

**Registration status (Chemical Inventories listing) :**

United States (TSCA) : listed      China (IECSC) : listed

Canada (DSL) : listed

Australia (AICS) : listed

Japan (ENCS) : listed

Korea (KECI) : listed

Philippines (PICCS) : listed

NTP (National Toxicology Program) : Substance is not listed

IARC (International Agency for Research on Cancer): Substance is not listed

**15.2 Chemical safety assessment:** A Chemical Safety Assessment has been carried out.



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**16. OTHER INFORMATION**

**Hazard statements**

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

**Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NOAEL: No Observable Adverse Effect Level

STOT: Single Target Organ Toxicity

OECD: Organisation for Economic Co-operation and Development

RCR: Risk Characterisation Ratio

PRE: Personal Respiratory Equipment

LEV: Local Exhaust Ventilation

**Modifications from last revision**

Section 15 of this datasheet has been updated.

**Revision Date: 15/09/2023**

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