

### Safety data sheet according to 1907/2006/EC, Article 31

Printing date 27.10.2023

Version number 27 (replaces version 26)

Revision: 27.10.2023

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

· **1.1 Product identifier**

- **Product name:** Nitrate, Total Nitrogen, Nitrate DMP LR/HR, Nitrate DMP LR2, Total Nitrogen DMP LR/HR,
- **Catalog number:** 424392, in (2)420702, in (2)420703, 420702-0, 419084-0, 419083-0, 419080-0, 419085-0, 419086-0

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

- **Application of the substance / the preparation:** Reagent for water analysis

· **1.3 Details of the supplier of the safety data sheet**

· **Supplier:**

Tintometer GmbH  
Schleefstraße 8-12  
44287 Dortmund  
Made in Germany  
www.lovibond.com

phone: +49 (0)231 94510-0  
e-mail: sales@lovibond.com

The Tintometer Limited  
Lovibond® House  
Sun Rise Way  
Amesbury  
Wiltshire SP4 7GR  
United Kingdom

phone : +44 1980 664800  
e-mail: SDS@lovibond.uk

· **Informing department:**

e-mail: sds@lovibond.com  
Product Safety Department

· **1.4 Emergency telephone number:**

+44 1235 239670  
Languages: English

#### SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**

- **Classification according to Regulation (EC) No 1272/2008**



GHS05 corrosion

Met. Corr.1 H290 May be corrosive to metals.  
Skin Corr. 1A H314 Causes severe skin burns and eye damage.  
Eye Dam. 1 H318 Causes serious eye damage.

· **2.2 Label elements**

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

The product is classified and labelled according to the GB CLP regulation.

· **Hazard pictograms**



GHS05

- **Signal word** Danger

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

sulphuric acid 52 %  
phosphoric acid 41 %

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**Hazard statements**

H290 May be corrosive to metals.  
H314 Causes severe skin burns and eye damage.

**Precautionary statements**

P260 Do not breathe mist/vapours/spray.  
P280 Wear protective gloves/protective clothing/eye protection.  
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or 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.  
P310 Immediately call a POISON CENTER/doctor.

**2.3 Other hazards**

Contact with skin and inhalation of aerosols/ vapours of the preparation should be avoided.  
Acid burns have to be treated immediately, as it may otherwise cause badly curing wounds.

**Results of PBT and vPvB assessment**

This mixture does not contain any substances that are assessed to be persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB), according to the criteria given in Annex XIII of Regulation (EC) No. 1907/2006.

**Determination of endocrine-disrupting properties**

The product does not contain substances with endocrine disrupting properties.

### SECTION 3: Composition/information on ingredients

**3.2 Mixtures**

**Description:** Mixture of inorganic compounds.

**Dangerous components:**

CAS: 7664-93-9 EINECS: 231-639-5 Index No: 016-020-00-8 Reg.nr.: 01-2119458838-20-XXXX	sulphuric acid ⚠ Met. Corr. 1, H290; Skin Corr. 1A, H314 Specific concentration limits: Skin Corr. 1A; H314: C ≥ 15 % Skin Irrit. 2; H315: 5 % ≤ C < 15 % Eye Dam. 1; H318: C ≥ 15 % Eye Irrit. 2; H319: 5 % ≤ C < 15 %	50–60%
CAS: 7664-38-2 EINECS: 231-633-2 Index No: 015-011-00-6 Reg.nr.: 01-2119485924-24-XXXX	phosphoric acid ⚠ Met. Corr. 1, H290; Skin Corr. 1B, H314; ⚠ Acute Tox. 4, H302 Specific concentration limits: Skin Corr. 1B; H314: C ≥ 25 % Skin Irrit. 2; H315: 10 % ≤ C < 25 % Eye Irrit. 2; H319: 10 % ≤ C < 25 %	40–50%

**Additional information** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

**4.1 Description of first aid measures**

**General information** Instantly remove any clothing soiled by the product.

**After inhalation** Supply fresh air or oxygen; call for doctor.

**After skin contact**

Instantly wash with polyethylene glycol 400.

Instantly rinse with water.

Immediate medical treatment necessary. Failure to treat burns can prevent wounds from healing.

**After eye contact**

Rinse opened eye for several minutes (at least 15 min) under running water.

Call a doctor immediately.

**After swallowing**

Rinse out mouth and then drink 1-2 glasses of water.

Do not induce vomiting; instantly call for medical help.

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

burns

after inhalation:

coughing

breathing difficulty

damage to the affected mucous membranes

after swallowing:

strong caustic effect.

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sickness  
vomiting  
diarrhoea

pain

Systemic effects:

cramps

Shock

· **Danger**

Danger of system failure.

Danger of gastric perforation.

Danger of pulmonary oedema.

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

If swallowed or in case of vomiting, danger of entering the lungs

Subsequent observation for pneumonia and pulmonary oedema

### SECTION 5: Firefighting measures

· **5.1 Extinguishing media**

· **Suitable extinguishing agents** CO<sub>2</sub>, sand, extinguishing powder.

· **For safety reasons unsuitable extinguishing agents**

Water

--&gt; exothermic reaction

· **5.2 Special hazards arising from the substance or mixture**

The product is not combustible.

Formation of toxic gases is possible during heating or in case of fire.

Can be released in case of fire:

Sulphur oxides (SO<sub>x</sub>)Phosphorus oxides (P<sub>x</sub>O<sub>x</sub>)

· **5.3 Advice for firefighters**

· **Protective equipment:**

Wear self-contained breathing apparatus.

Wear full protective suit.

· **Additional information**

Collect contaminated fire fighting water separately. It must not enter drains.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

Ambient fire may liberate hazardous vapours.

### SECTION 6: Accidental release measures

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

· **Advice for non-emergency personnel:**

Wear protective equipment. Keep unprotected persons away.

Avoid substance contact.

Ensure adequate ventilation

Use breathing protection against the effects of fumes/dust/aerosol.

· **Advice for emergency responders:** Protective equipment: see section 8

· **6.2 Environmental precautions:** Do not allow product to reach sewage system or water bodies.

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

Ensure adequate ventilation.

Neutralize with diluted sodium hydroxide solution or by throwing on lime sand, lime or sodium carbonate.

Absorb with liquid-binding material (sand, diatomite, universal binders).

Dispose of contaminated material as waste according to item 13.

· **6.4 Reference to other sections**

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

### SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**

· **Advice on safe handling:**

Ensure good ventilation/exhaustion at the workplace.

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Prevent formation of aerosols.

· **Hygiene measures:**

- Do not inhale gases / fumes / aerosols.
- Do not get in eyes, on skin, or on clothing.
- Take off immediately all contaminated clothing.
- Wash hands during breaks and at the end of the work.
- Do not eat, drink or smoke when using this product.

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

· **Requirements to be met by storerooms and containers:**

- Store in cool location.
- Store only in the original container.

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

- Store away from metals.
- Do not store together with alkalis (caustic solutions).
- Store away from flammable substances.

· **Further information about storage conditions:**

- Keep container tightly sealed.
- Protect from heat and direct sunlight.
- Protect from the effects of light.
- Protect from humidity and keep away from water.

· **Recommended storage temperature: 20°C +/- 5°C**

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

## SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

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

**CAS: 7664-93-9 sulphuric acid**

WEL (Great Britain)	Long-term value: 0.05* mg/m <sup>3</sup> *mist: defined as thoracic fraction
IOELV (European Union)	Long-term value: 0.05 mg/m <sup>3</sup>

**CAS: 7664-38-2 phosphoric acid**

WEL (Great Britain)	Short-term value: 2 mg/m <sup>3</sup> Long-term value: 1 mg/m <sup>3</sup>
IOELV (European Union)	Short-term value: 2 mg/m <sup>3</sup> Long-term value: 1 mg/m <sup>3</sup>

· **Regulatory information**

- WEL (Great Britain): EH40/2020
- IOELV (European Union): (EU) 2019/1831
- **Additional information:** IOELV = Indicative Occupational Exposure Limit

· **DNELs**

Derived No Effect Level (DNEL)

**CAS: 7664-93-9 sulphuric acid**

Inhalative DNEL	0.1 mg/m <sup>3</sup> (Worker / acute / local effects) 0.05 mg/m <sup>3</sup> (Worker / acute / systemic effects)
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· **Recommended monitoring procedures:**

Methods for measurement of the workplace atmosphere have to correspond to the requirements of norms DIN EN 482 and DIN EN 689.

· **PNECs**

Predicted No Effect Concentration (PNEC)

**CAS: 7664-93-9 sulphuric acid**

PNEC	8.8 mg/l (Sewage treatment plant) 0.00025 mg/l (Marine water) 0.0025 mg/l (Fresh water)
PNEC	0.002 mg/kg (Marine sediment) 0.002 mg/kg (Fresh water sediment)

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

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### · 8.2 Exposure controls

#### · Engineering measures:

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. See item 7.

#### · Individual protection measures, such as personal protective equipment

Protective clothing should be selected specifically for the workplace, depending on concentration and quantity of the hazardous substances handled.

#### · Eye/face protection

Tightly sealed safety glasses.

Use safety glasses that have been tested and approved in accordance with government standards such as EN 166.

#### · Hand protection

Acid resistant gloves

Preventive skin protection by use of skin-protecting agents is recommended.

After use of gloves apply skin-cleaning agents and skin cosmetics.

#### · Material of gloves

Butyl rubber, BR

Fluorocarbon rubber (Viton)

nitrile rubber, NBR

Recommended thickness of the material:  $\geq 0.35$  mm

#### · Penetration time of glove material

Value for the permeation: Level = 1 (< 10 min)

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

#### · Other skin protection (body protection): Acid resistant protective clothing

#### · Breathing equipment: Use breathing protection against the effects of fumes/dust/aerosol.

#### · Recommended filter device for short term use: Combination filter B-P2

#### · Environmental exposure controls Do not allow product to reach sewage system or water bodies.

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## SECTION 9: Physical and chemical properties

### · 9.1 Information on basic physical and chemical properties

· Physical state	Fluid
· Form:	Liquid
· Colour:	Colourless
· Odour:	Odourless
· Odour threshold:	Not applicable.
· Melting point/Freezing point:	Not determined.
· Boiling point or initial boiling point and boiling range	Not determined.
· Flammability	The product is not combustible.
· Explosive properties:	Product is not explosive.
· Lower and upper explosion limit	
Lower:	Not applicable.
Upper:	Not applicable.
· Flash point:	Not applicable.
· Auto-ignition temperature:	Not applicable.
· Decomposition temperature:	Not determined.
· pH at 20°C	1.6
	Strongly acidic
· Kinematic viscosity	Not determined.
· Solubility	
· Water:	Fully miscible
· Partition coefficient n-octanol/water (log value)	Not applicable (mixture).
· Vapour pressure:	Not determined.
· Density and/or relative density	
· Density at 20°C:	1.79 g/cm <sup>3</sup>
· Relative density:	Not determined.
· Relative gas density	Not determined.
· Particle characteristics	Not applicable (liquid).

### · 9.2 Other information

#### · Information with regard to physical hazard classes

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· <b>Corrosive to metals</b>	May be corrosive to metals.
· <b>Metals that are corroded by the substance or mixture</b>	Information on incompatible materials can be found in Sections 7 and 10.
· <b>Other safety characteristics</b>	
· <b>Oxidising properties:</b>	Oxidising potential
· <b>Additional information</b>	
· <b>Solids content:</b>	0 %
· <b>Solvent content:</b>	
· <b>Organic solvents:</b>	0 %
· <b>Water:</b>	< 10

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** see section 10.3
- **10.2 Chemical stability** Stable at ambient temperature (room temperature).
- **10.3 Possibility of hazardous reactions**
  - Corrosive action on metals
  - Reacts with metals forming hydrogen (Danger of explosion in case of large amounts!)
  - When diluting, always add acid to water, never vice versa
  - Diluting or dissolving in water always causes rapid heating
  - Reacts with reducing agents
  - Reacts with peroxides
  - Reacts with halogenated compounds
  - Reacts with oxidizing agents
  - Reacts with acids and alkali (lyes).
  - Reacts with ammonia (NH<sub>3</sub>).
  - > exothermic reaction
- **10.4 Conditions to avoid** Strong heating (decomposition)
- **10.5 Incompatible materials:**
  - metals
  - alkali metals
  - combustible substances
  - organic solvents
- **10.6 Hazardous decomposition products:** see section 5

### SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

#### · **LD/LC50 values that are relevant for classification:**

##### **CAS: 7664-93-9 sulphuric acid**

Oral	LD50	2140 mg/kg (rat) (IUCLID)
Inhalative	LC 50	510 mg/m <sup>3</sup> /2h (rat) IUCLID

##### **CAS: 7664-38-2 phosphoric acid**

Oral	LD50	1530 mg/kg (rat) (RTECS)
Dermal	LD50	2740 mg/kg (rabbit) (RTECS)
Inhalative	LC50	>0.85 mg/l/1h (rat) (RTECS)

- **Skin corrosion/irritation** Causes severe skin burns and eye damage.
- **Serious eye damage/irritation**
  - Causes serious eye damage.
  - Risk of blindness!
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

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· <b>Information on components:</b>		
<b>CAS: 7664-38-2 phosphoric acid</b>		
Sensitisation	Patch test (human)	(negative) (IUCLID)

- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.

· <b>Information on components:</b>	
<b>CAS: 7664-38-2 phosphoric acid</b>	
OECD 471	(negative) (Bacterial Reverse Mutation Test - Ames test) (IUCLID)

- **STOT (specific target organ toxicity) -single exposure** Based on available data, the classification criteria are not met.
- **STOT (specific target organ toxicity) -repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

### · Information on likely routes of exposure

The intake of sulfuric acid is mainly to be expected via the inhalative pathway in the form of aerosols. No studies on absorbability are available.

Generally, local reactions cause the main effects.

Following impact to the skin strong local effects are the main issue. There is no indication of absorption of relevant amounts of S. via the intact skin.

Absorbability via the gastrointestinal tract is assumed. However, no studies on the kinetics of uptake are available. [GESTIS]

Main routes of absorption: In the workplace, phosphoric acid (P.) is probably absorbed preferentially by inhalation.

Due to the low vapour pressure of P., toxicologically relevant inhalation exposure is to be expected mainly when aerosols are released. [GESTIS]

### · Additional toxicological information:

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

The aerosol is corrosive to the eyes, the skin and the respiratory tract. Inhalation of aerosols may cause lung oedema.

<b>CAS: 7664-93-9 sulphuric acid</b>	
. (source: GESTIS)	
Main toxic effects	
Acute: Irritation up to chemical burns to the mucous membranes and skin, danger of serious damage to the eyes and lungs	
Chronic: Irritation to the eyes and airways, erosion of the teeth, damage to the skin	
Further Information:	
Concentrated S. differs considerably from dilute Sulfuric acid with regard to chemical properties and effects. With increased dilution Sulfuric acid acts less aggressively.	
<b>CAS: 7664-38-2 phosphoric acid</b>	
. (source: GESTIS)	
Main toxic effects:	
Acute: Irritant to corrosive effect on the eyes, respiratory tract and skin, damage to the gastrointestinal tract after ingestion	
chronic: Irritant effect on the respiratory tract	

### · 11.2 Information on other hazards

- **Endocrine disrupting properties** The product does not contain substances with endocrine disrupting properties.

### · Other information

According to the information available to us, the chemical, physical and toxicological properties of the substances mentioned in Chapter 3 have not been thoroughly investigated.

## SECTION 12: Ecological information

### · 12.1 Toxicity

· <b>Aquatic toxicity:</b>	
<b>CAS: 7664-93-9 sulphuric acid</b>	
EC50	>100 mg/l/48h (Daphnia magna) (OECD 202) (ECHA)
LC50	16–29 mg/l/96h (bluegill) (Merck)

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**CAS: 7664-38-2 phosphoric acid**

EC50	100 mg/l/48h (Daphnia magna) (OECD 202)
EC50	100 mg/l/72h (Desmodesmus subspicatus) (OECD 201)
LC50	138 mg/l/96h (mosquitofish)

- **Bacterial toxicity:**

sulphates toxic &gt; 2.5 g/l

**CAS: 7664-38-2 phosphoric acid**

EC50	>1000 mg/l /3h (activated sludge) (OECD 209)
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- **Other information:**

Toxic for fish:

Sulphates &gt; 7 g/l

- **12.2 Persistence and degradability .**

- **Other information:**

Mixture of inorganic compounds.

Methods for the determination of biodegradability are not applicable to inorganic substances.

- **12.3 Bioaccumulative potential**

Pow = n-octanol/wasser partition coefficient

log Pow &lt; 1 = Does not accumulate in organisms.

**CAS: 7664-38-2 phosphoric acid**

log Pow	-0.77 (.) (calculated)
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- **12.4 Mobility in soil** No further relevant information available.

- **12.5 Results of PBT and vPvB assessment**

This mixture does not contain any substances that are assessed to be persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB), according to the criteria given in Annex XIII of Regulation (EC) No. 1907/2006.

- **12.6 Endocrine disrupting properties** The product does not contain substances with endocrine disrupting properties.

- **12.7 Other adverse effects**

Depending on the concentration, phosphorus and/or nitrogen compounds may contribute to the eutrophication of water supplies.

Harmful effect due to pH shift.

Forms corrosive mixtures with water even if diluted.

Avoid transfer into the environment.

- **Water hazard:**

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

Must not reach sewage water or drainage ditch undiluted or unneutralised.

## SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**

- **Recommendation**

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

Hand over to disposers of hazardous waste.

- **European waste catalogue**

16 05 07*	discarded inorganic chemicals consisting of or containing hazardous substances
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- **Uncleaned packagings:**

- **Recommendation:** Disposal must be made according to official regulations.

- **Recommended cleaning agent:** Water, if necessary with cleaning agent.

## SECTION 14: Transport information

- **14.1 UN number or ID number**

· <b>ADR, IMDG, IATA</b>	UN3264
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- **14.2 UN proper shipping name**

· <b>ADR</b>	3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (SULPHURIC ACID, PHOSPHORIC ACID, SOLUTION)
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· <b>IMDG, IATA</b>	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (SULPHURIC ACID, PHOSPHORIC ACID, SOLUTION)
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· <b>14.3 Transport hazard class(es)</b>	
· <b>ADR</b>	
	
· <b>Class</b>	8 (C1) Corrosive substances.
· <b>Label</b>	8
· <b>IMDG, IATA</b>	
	
· <b>Class</b>	8 Corrosive substances.
· <b>Label</b>	8
· <b>14.4 Packing group</b>	
· <b>ADR, IMDG, IATA</b>	II
· <b>14.5 Environmental hazards:</b>	
	Not applicable.
· <b>14.6 Special precautions for user</b>	
· <b>Warning:</b>	Warning: Corrosive substances.
· <b>Kemler Number:</b>	80
· <b>EMS Number:</b>	F-A,S-B
· <b>Segregation groups</b>	(SGG1) Acids
· <b>Stowage Category</b>	B
· <b>Stowage Code</b>	SW2 Clear of living quarters.
· <b>14.7 Maritime transport in bulk according to IMO instruments</b>	
	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADR</b>	
· <b>Limited quantities (LQ)</b>	1L
· <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>Transport category</b>	2
· <b>Tunnel restriction code</b>	E
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	1L
· <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

### SECTION 15: Regulatory information

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

##### · Poisons Act UK

##### · Regulated explosives precursors

The substance falls under regulated explosive precursors due to the fact that the concentration is greater than/equal ( $c \geq x\%$ ) the stated mass percentage:

CAS: 7664-93-9	sulphuric acid	15%
CAS: 7664-38-2	phosphoric acid	30%

##### · Regulated poisons

None of the ingredients is listed.

##### · Reportable explosives precursors

None of the ingredients is listed.

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· <b>Reportable poisons</b>	
None of the ingredients is listed.	
· <b>Regulation (EU) 2019/1148 on the marketing and use of explosives precursors</b> not regulated: article	
· <b>explosives precursors - ANNEX I</b>	
CAS: 7664-93-9	sulphuric acid *
· <b>Regulation (EU) No 649/2012 concerning the export and import of hazardous chemicals (PIC)</b>	
None of the ingredients is listed.	
· <b>Regulation (EC) No 1334/2000 setting up a Community regime for the control of exports of dual-use items and technology:</b>	
None of the ingredients is listed.	
· <b>Regulation (EC) No 273/2004 on drug precursors</b>	
CAS: 7664-93-9	sulphuric acid 3
· <b>Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors</b>	
CAS: 7664-93-9	sulphuric acid 3
· <b>Regulation (EC) No 1005/2009 on substances that deplete the ozone layer:</b>	
None of the ingredients is listed.	
· <b>REGULATION (EU) 2019/1021 on persistent organic pollutants (POP)</b>	
None of the ingredients is listed.	
· <b>LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV)</b>	
None of the ingredients is listed.	
· <b>Substances of very high concern (SVHC) according to REACH, Article 57</b> This product does not contain any substances of very high concern above the legal concentration limit of $\geq 0.1\%$ (w / w).	
· <b>Substances of very high concern (SVHC) according to UK REACH</b> This product does not contain any substances of very high concern above the legal concentration limit of $\geq 0.1\%$ (w / w).	
· <b>Directive 2012/18/EU (SEVESO III):</b>	
· <b>Named dangerous substances - ANNEX I</b> None of the ingredients is listed.	
· <b>REGULATION (EC) No 1907/2006 ANNEX XVII</b> Conditions of restriction: 3	
· <b>Information about limitation of use:</b> Employment restrictions concerning young persons must be observed (94/33/EC).	
· <b>15.2 Chemical safety assessment:</b> A Chemical Safety Assessment has not been carried out.	

### SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Training hints** Provide adequate information, instruction and training for operators.

· **Relevant phrases**

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

· **Abbreviations and acronyms:**

OECD: Organisation for Economic Co-operation and Development

STOT: specific target organ toxicity

SE: single exposure

RE: repeated exposure

EC50: half maximal effective concentration

IC50: half maximal inhibitory concentration

NOEL or NOEC: No Observed Effect Level or Concentration

ADR: Accord relatif au transport international 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

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

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)

DNEL: Derived No-Effect Level (UK REACH)

PNEC: Predicted No-Effect Concentration (UK REACH)

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# Safety data sheet

## according to 1907/2006/EC, Article 31

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**Product name: Nitrate, Total Nitrogen, Nitrate DMP LR/HR, Nitrate DMP LR2, Total Nitrogen DMP LR/HR,**

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(Contd. of page 10)

LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
SVHC: Substances of Very High Concern  
vPvB: very Persistent and very Bioaccumulative  
Met. Corr. 1: Corrosive to metals – Category 1  
Acute Tox. 4: Acute toxicity – Category 4  
Skin Corr. 1A: Skin corrosion/irritation – Category 1A  
Skin Corr. 1B: Skin corrosion/irritation – Category 1B  
Eye Dam. 1: Serious eye damage/eye irritation – Category 1

**Sources**

Data arise from safety data sheets, reference works and literature.  
IUCLID (International Uniform Chemical Information Database)  
RTECS (Registry of Toxic Effects of Chemical Substances )  
ECHA: European CHemicals Agency <http://echa.europa.eu>  
GESTIS- Stoffdatenbank (Substance Database, Germany)

\* Data compared to the previous version altered.

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