



SAFETY DATA SHEET

S-Chelate-O Mn

7th March 2023

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Complying with Regulation (EC) No 1272/2008 (CLP) as amended by Commission Regulation (EU) 2020/878.

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name: S-CHELATE-O Mn

Other means of identification:

CAS Number: Mixture

EC Number: Not applicable

REACH No: Not applicable

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

Relevant identified uses: Fertilizer for agricultural use

Uses advised against: Uses other than those described above.

1.3 Details of the supplier of the safety data sheet

Company Name: Align Chemical Limited

Company Address: 29 Milton Lawns,
Amersham,
Bucks HP6 6BJ
United Kingdom

Company Tel: +44 (0) 1494 728458

Fax Number: +44 (0) 1494 728458

Contact Name: Barry Langdon

E-mail address of person responsible for this SDS: barry.langdon@alignchemical.com

1.4 Emergency telephone number

Emergency telephone number (including hours of operation): +44 (0) 1494 728458 (8am – 5pm).

Poison Centre Information: See Section 16 for the full EU list of Poison Centres.

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification in accordance to Regulation (EC) No. 1272/2008 (CLP/GHS)

Product name	GHS Classification
S-CHELATE-O Mn	Serious Eye Damage/Irritation, Category 1 Specific Target Organ Toxicity, Single Exposure, Category 3 Specific Target Organ Toxicity, Repeated exposure, Category 2 (Brain) Hazardous to the aquatic environment – long-term (chronic) aquatic hazard, Category 2

2.2 Label elements

Labelling in accordance with Regulation 1272/2008 (CLP)

Hazard pictograms:



Signal word: DANGER

Hazard statements: H318 - Causes serious eye damage
H335 - May cause respiratory irritation
H373 - May cause damage to organs through prolonged or repeated exposure
H411 - Toxic to aquatic life with long lasting effects

Precautionary Statements: P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
P273 - Avoid release to the environment
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
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
P391 - Collect spillage.

Supplemental Hazard Statements. None known

2.3 Other hazards

May form combustible dust concentrations in air due to particle size.

This substance/mixture contains no components considered to be an endocrine-disrupting substance, persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances :
Not applicable.

3.2 Mixture :

Product/ Ingredient name	Identifiers	%	Classification 1272/2008/E C	Nano material form	M Factor	Specific conc'n limits (SCL)	Acute toxicity estimate (ATE)
2-Hydroxypropane -1,2,3- tricarboxylic acid	CAS No 5949-29-1 EC No 201-069-1 REACH No 01- 2119457026- 42-XXXX	50 - 60%	Eye Irrit. 2, H319 STOT SE 3, H335	No	1	No SCL in Annex VI	No ATE in Annex VI
Manganese Sulphate Monohydrate	CAS No 10034-96-5 EC No 232-089-9 REACH No 01- 2119456624- 35-XXXX	40 - 50%	Eye Dam 1, H318 STOT RE 2, H373 Aquatic Chronic 2, H411	No	1	No SCL in Annex VI	No ATE in Annex VI

Nanoforms present in product:

None known

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in section 8.
See section 16 for the full text of the EUH, H and P phrases declared above.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Eye contact : If in eyes: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If the irritation persists immediately call the medical service.

Skin contact: Wash the contaminated area with plenty of water, replace the contaminated clothing and shoes with clean ones, if necessary (contaminated clothes must be washed before reuse); if the irritation persists seek medical assistance.

Inhalation: Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Oxygen should only be administered by qualified personnel. Seek medical advice.

Ingestion: Do NOT induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Causes serious eye damage. May cause respiratory irritation. May cause damage to the brain through prolonged or repeated exposure.



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The following symptoms may occur:

In case of inhalation May cause irritation to respiratory tract
In case of skin contact May cause redness or irritation
In case of eye contact Causes serious eye damage
In case of ingestion Ingestion of large amounts may cause gastrointestinal disturbances

4.3 Indication of any immediate medical attention and special treatment needed

If any symptoms are observed, contact a physician and give them this SDS sheet.
Provide general supportive measures and treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Use any suitable mean for extinguishing surrounding fire. Spray water for small fires. For large fires flood with abundant water.

Unsuitable extinguishing media: None, but attention should be paid to compatibility with surrounding chemicals.

5.2 Special hazards arising from the substance or mixture

May form combustible dust concentrations in air due to particle size. Irritating and toxic gases or fumes may be released during a fire.

Hazardous combustion products:

Carbon oxides, sulphur oxides and manganese oxides.

5.3 Advice for firefighters

Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (self contained breathing apparatus (SCBA)). In addition, wear other appropriate protective equipment as conditions warrant (see Section 8).

Keep out of drains, surface waters and soil against pollution.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering.

For emergency responders

Keep unauthorized people away and upwind. Wear appropriate personal protective equipment (refer to Section 8 Exposure controls/ personal protection) and avoid contact with eyes and skin. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

Avoid dispersal of spilt material and runoff and contact with waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways or air).

6.3 Methods and materials for containment and cleaning up

Large Spills: Stop the flow of material, if safe to do so. Sweep up and collect into containers for disposal. Keep in suitable, closed containers for disposal.

Small Spills: Sweep up and collect into containers for disposal. Keep in suitable, closed containers for disposal. For waste disposal, see section 13 of the SDS.

6.4 Reference to other sections

See Section 1 for emergency contact information.

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid generation of dust. Avoid contact with skin and eyes. Avoid prolonged exposure. Provide appropriate exhaust ventilation at places where dust is formed. Wear appropriate personal protective equipment. Wash hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. Observe good industrial hygiene practices.

7.2 Conditions for safe storage, including any incompatibilities

Keep/store only in original container. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Store indoors and ideally at 20°C or under to prevent caking due to the product's low melting point.
Do not store together with: reducing agents (see Section 10 of the SDS).

7.3 Specific end use(s):

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limit values:

Ingredient name	CAS Number	Occupational exposure limits	Source
2-Hydroxypropane-1,2,3-tricarboxylic acid	5949-29-1	Short-term value: None known Long-term value: None known.	Europe. Occupational exposure limit values
Manganese Sulphate Monohydrate	10034-96-5	Short-term value: No data available Long-term value: 0.2 mg/m ³ (Finland)	Europe. Occupational exposure limit values

Monitoring procedures: Use methods described in European Standards.

Derived No Effect Level (DNEL):

2-Hydroxypropane-1,2,3-tricarboxylic acid
No hazard identified

Manganese Sulphate Monohydrate

Application Area	Exposure routes	Health Effect	Value
Workers	Inhalation	Long-term systemic effects	0.2 mg/m ³
Workers	Inhalation	Long-term local effects	0.2 mg/m ³
Workers	Dermal	Long-term systemic effects	0.004 mg/kg bw/day
General population	Inhalation	Long-term systemic effects	0.043 mg/m ³
General population	Dermal	Long-term systemic effects	0.002 mg/kg bw/day

Predicted No Effect Concentration (PNEC):

2-Hydroxypropane-1,2,3-tricarboxylic acid

No hazard identified

Manganese Sulphate Monohydrate

Compartment	Value
Fresh water	0.03 mg/L
Marine water	0 mg/L
Sewage treatment plant	56 mg/L
Fresh water sediment	0.011 mg/kg sediment dw
Marine sediment	0.001 mg/kg sediment dw
Soil	25.1 mg/kg soil dw

8.2 Exposure controls

Appropriate Engineering Measures

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.

If exposure limits have not been established, maintain airborne levels to an acceptable level.

Provide eyewash station. Eye wash fountain and emergency showers are recommended.

Concentrations should be monitored hazardous substances in the workplace in accordance with recognized test methods. Mode, method, type and frequency of testing and measurement of harmful factors in the working environment should meet the requirements of local/regional/national laws.

Individual protection measures, such as personal protective equipment:

Eye and face protection: Wear safety goggles.

Skin protection:

Hand protection: Wear appropriate chemical resistant gloves. Nitrile rubber gloves, over 0.11 mm thickness, > 480 min breakthrough time, recommended. 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 cannot 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.

Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Other skin protection: The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Wash hands after use.

Respiratory protection: Wear respiratory protection, where airborne concentrations are expected to exceed exposure limits. Use respirators and components tested and approved under appropriate government standards such as NIOSH or MSHA-approved respiratory protection.

Thermal hazards: None known.

Environmental exposure controls: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical State:	Powder
Colour:	White
Odour and odour threshold:	Faint odour
Melting point/Freezing point:	Not determined
Boiling point or initial boiling point and boiling range:	Not determined
Flammability:	May form combustible dust concentrations in air due to particle size.
Lower and upper explosion limit::	
Lower (%):	Not determined
Upper (%):	Not determined
Flash point:	Not determined
Auto-ignition temperature:	Not determined
Decomposition temperature:	Not determined
pH:	3 (1% solution)
Kinematic viscosity:	Not determined
Solubility:	Highly soluble
Partition coefficient n-octanol/water (log value):	Not determined
Vapour pressure:	Not determined
Density and/or relative density:	Not determined
Relative vapour density:	Not determined
Decomposition temperature:	Not determined
Particle characteristics:	Particle size – 0.05 – 2.36 mm Mean particle size - 0.5-1mm

9.2 Other information:

Information with Regard to Physical Hazard Classes:	May form combustible dust concentrations in air due to particle size.
Other Safety Characteristics:	None known.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No hazardous reactions anticipated under normal storage and handling conditions.

10.2 Chemical stability

Stable under normal ambient and anticipated conditions of use.

10.3 Possibility of hazardous reactions

None expected.

10.4 Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources. Avoid high temperatures.

10.5 Incompatible materials

Materials to avoid include; reducing substances under specific conditions

10.6 Hazardous Decomposition products:

Carbon oxides, sulphur oxides and manganese oxides

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity: This product is not expected to cause acute toxicity

Product/ingredient name	Test	Species	Dose
2-Hydroxypropane-1,2,3-tricarboxylic acid	LD50 Oral	Rat	11700 mg/kg
	LD50 Dermal	Rabbit	> 2000 mg/kg
	LC50 Inhalation	Rat	None known
Manganese Sulphate Monohydrate	LD50 Oral	Rat	2150 mg/kg (anhydrous)
	LD50 Dermal	Rabbit	None known
	LC50 Inhalation	Rat	> 4.45 mg/l 4h (anhydrous)

Skin corrosion/irritation: May cause slight skin irritation.

Serious eye damage/eye irritation: Expected to cause serious eye damage. Symptoms may include eye damage, burns, stinging, tearing, redness, swelling, and blurred vision..

Respiratory or skin sensitization: Not expected to cause respiratory or skin sensitization.

Germ cell mutagenicity: This product is not anticipated to be a mutagen.

Carcinogenicity: This product is not expected to be a carcinogen.

Reproductive toxicity: This product is not expected to cause reproductive toxicity.

STOT - Single exposure: May cause respiratory irritation.

STOT - Repeat exposure: May cause damage to the brain through prolonged or repeated exposure.

Aspiration hazard: This product is not anticipated to be an aspiration hazard if swallowed.

11.2 Information on other hazards:

Endocrine disrupting properties: The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Information on other hazards: None known

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity:

Substance name	Toxicity to fish / other aquatic invertebrates
2-Hydroxypropane-1,2,3-tricarboxylic acid	Fish LC50 - Leuciscus idus (Golden orfe) - 440 - 760 mg/l - 96 h Invertebrates EC50 Daphnia magna (Water flea) - ca. 120 mg/l - 72 h Algae IC5 - M.aeruginosa - 80 mg/l - 8 d Bacteria EC5 - Pseudomonas putida - > 10,000 mg/l - 16 h



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Manganese Sulphate Monohydrate	Fish LC50 - Salmo trutta – 49.9 mg/l 96h Aquatic crustacea LC50 - H.azteca – 3 mg/l 96h Algae ErC50 - Desmodesmus subspicatus (green algae) - 61 mg/l - 72 h
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12.2 Persistence and Degradability:

No data available for this product

12.3 Bioaccumulative potential:

No data available for this product.

12.4 Mobility in soil:

No data available for this product

12.5 Results of PBT and vPvB assessment:

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects:

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Product

Do not allow product to reach sewage system.

Dispose of waste materials in accordance with applicable local and national laws and regulations.

Where possible, recycling is preferred to disposal or incineration. Contact the proper local authorities.

Contaminated packaging

Since emptied containers retain product residue, follow label warnings even after container is emptied.

Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: TRANSPORT INFORMATION

This product is classified as UN 3077, and when packaged in containers of 5kg or less, can be transported as Limited Quantities (LQ). Providing that the general requirements for packaging and markings are met, ADR will not apply.

International transport regulations

14.1 UN number:

ADR/RID: UN 3077

IMDG: UN 3077

IATA: UN 3077

14.2 Proper shipping name:

ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Contains Manganese Sulphate)

IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Contains Manganese Sulphate)



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IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Contains Manganese Sulphate)

14.3 Transport hazard class(es)

ADR/RID: 9

IMDG: 9

IATA: 9

14.4 Packing group

ADR/RID: III

IMDG: III

IATA: III

14.5 Environmental hazard

Marine Pollutant: Yes

14.6 Special precautions for user

No data available.

14.7 Transport to bulk according to Annex II of MARPOL and the IBC Code

Not applicable

Section 15: REGULATORY INFORMATION

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

This safety datasheet complies with the requirements of:

EU Commission Regulation (EU) 2020/878 (REACH)

EU Regulation (EC) No 1272/2008 (CLP)

EINECS: All components in this product are listed on the European Inventory of Existing Chemical Substance

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out on this product.

Section 16: OTHER INFORMATION

Full List of Poison Centres for Section 1.4

COUNTRY	CONTACT DETAILS
Austria	Vergiftungsinformationszentrale (VIZ) Notruf 0–24 Uhr: +43 1 406 43 43 Bürozeiten: Montag bis Freitag, 8 bis 16 Uhr, Tel.: +43 1 406 68 98 Euro-Notruf: 112 Rettung: 144 Ärztfunkdienst: 141
Belgium	Federal Public Service (FPS) Health, Food Chain Safety and Environment Place Victor Horta 40/10, 1060 Brussels Email BPR: info.biocides (at) environment.belgium.be FPS Economy, Rue du Progrès, 50, B-1210 Brussels Telephone:+32 (0) 800 120 33 Fax: +32 (0) 2 277 53 04 Email: reachinfo (at) economie.fgov.be
Bulgaria	Национален токсикологичен информационен център Многопрофилна болница за активно лечение и спешна медицина "Н.И.Пирогов" Телефон за спешни случаи / факс: +359 2 9154 233 E-mail: poison_centre@mail.orbitel.bg http://www.pirogov.bg
Croatia	Ksaverska cesta 2, 10000 Zagreb T 01 2348 342



Cyprus	ΔΔΑ 1401 (ώρες λειτουργίας 24 ώρες/24ωρο, 7 ημέρες την εβδομάδα).
Czech Republic	Toxikologické informační středisko Na Bojišti 1 120 00 Praha 2 Telefon: +420 224 919 293, +420 224 915 402 Web: www.tis-cz.cz
Denmark	Bispebjerg hospital bispebjerg bakke 23e, opgang 20 c 2400 kbh nv Telefon: 8212 1212 e-mail: giftlinjen@regionh.dk
Estonia	Poison information telephone number (Mürgistusteabekeskuse number) is nationally 16662, calling from abroad (+372) 7943 794 Hotline 16662 of the Poisoning Information Centre is active 24/7. National poison information centre service in Estonia is accessible at www.16662.ee
Finland	Open 24 hours a day 0800 147 111 (the call is free of charge) 09 471 977
France	numéro ORFILA (INRS) : + 33 (0)1 45 42 59 59 Ces centres anti-poison et de toxicovigilance fournissent une aide médicale gratuite (hors coût d'appel), 24 heures sur 24 et 7 jours sur 7.
Germany	Berlin - Giftnotruf der Charité Universitätsmedizin Berlin CBF, Haus VIII (Wirtschaftgebäude), UG Hindenburgdamm 30, 12203 Berlin Tel. 030 - 192 40 (Notruf) Fax 030 - 450 569 901 mail@giftnotruf.de https://giftnotruf.charite.de Bonn - Informationszentrale gegen Vergiftungen Klinik und Poliklinik für Allgemeine Pädiatrie Zentrum für Kinderheilkunde, Universitätsklinikum Bonn Gebäude 30, ELKI (Eltern-Kind-Zentrum) Venusberg-Campus 1, 53127 Bonn Tel. 0228 - 192 40 (Notruf) Tel. 0228 - 287 332 19 Tel. 0228 - 287 334 80 (Sekretariat) Fax 0228 - 287 332 78 info@giftzentrale-bonn.de www.ukbonn.de Erfurt - Giftnotruf Erfurt Gemeinsames Giftinformationszentrum der Länder Mecklenburg-Vorpommern, Sachsen, Sachsen-Anhalt und Thüringen c/o HELIOS Klinikum Erfurt Nordhäuser Straße 74, 99089 Erfurt Tel. 0361 - 730 730 Fax 0361 - 730 731 7 ggiz@ggiz-erfurt.de www.ggiz-erfurt.de Freiburg - Vergiftungs-Informations-Zentrale Zentrum für Kinder- und Jugendmedizin Universitätsklinikum Freiburg Mathildenstraße 1, 79106 Freiburg Tel. 0761 - 192 40 (Notruf) Fax 0761 - 270 445 70 giftinfo@uniklinik-freiburg.de www.giftberatung.de Göttingen - Giftinformationszentrum-Nord der Länder Bremen, Hamburg, Niedersachsen und Schleswig-Holstein (GIZNord) Universitätsmedizin Göttingen - Georg-August-Universität



	<p>Robert-Koch-Straße 40, 37075 Göttingen Tel. 0551 - 192 40 (Notruf) Fax 0551 - 383 188 1 giznord@giz-nord.de www.giz-nord.de</p> <p>Homburg - Informations- und Beratungszentrum für Vergiftungsfälle* Klinik für Kinder- und Jugendmedizin Universitätsklinikum des Saarlandes, Geb. 9 Kirrberger Str. 100 66421 Homburg/Saar * kein Firmenservice Tel. 06841 - 192 40 (Notruf) Tel. 06841 - 162 843 6 (Sekretariat) Fax 06841 - 162 110 9 giftberatung@uniklinikumsaarland.de www.uniklinikumsaarland.de/giftzentrale</p> <p>Mainz - Giftinformationszentrum der Länder Rheinland-Pfalz und Hessen -Klinische Toxikologie- Universitätsmedizin der Johannes Gutenberg-Universität Mainz Langenbeckstraße 1 Gebäude 601, 55131 Mainz Tel. 06131 - 192 40 (Notruf) Tel. 06131 - 232 466 (Infoline) Fax 06131 - 232 468 mail@giftinfo.uni-mainz.de www.giftinfo.uni-mainz.de</p> <p>München - Giftnotruf München Toxikologische Abteilung der II. Med. Klinik und Poliklinik, rechts der Isar der Technischen Universität München Ismaninger Straße 22, 81675 München Tel. 089 - 192 40 (Notruf) Fax 089 - 414 024 67 tox@lrz.tu-muenchen.de https://www.mri.tum.de/toxikologie-und-giftnotruf</p>		
Greece	<p>Poison Information Centre Children's Hospital P&A Kyriakou Athens 11762 Greece Director Dr P. Neou, Emergency number: (0030) 2107793777 Fax: 00302107486114 Email: poison_ic@aglaiakyriakou.gr available for consultation 24 hours/day, to medical professionals and the public</p>		
Hungary	<p>Cím: 1097 Budapest, Albert Flórián út 2-6. Sürgősségi információszolgáltatás mérgezés vagy annak gyanúja esetén: +36 80 201 199 (0-24 órában, díjmentesen hívható – csak Magyarországról) +36 1 476 6464 (0-24 órában, normál díj ellenében hívható – külföldről is)</p>		
Iceland	<p>Tel: 543 2222 or 112 or 543 1000 OPIÐ Allan sólarhringinn alla daga</p>		
Ireland	<p>National Poisons Information Centre: 353 (1) 809 2166 (8.00 a.m. to 10.00 p.m. 7 days a week). Healthcare Professionals: +353 (1)809 2566 (24 hour service)</p>		
Italy	<p>CAV "Osp. Pediatric Child Jesus" "Department of Emergency and DEA Acceptance"</p>	Rome	<p>Piazza Sant'Onofrio, 00165⁰⁶ 4 68593726</p>
	Az. Osp. Univ. Foggia	Foggia	<p>V.le Luigi Pinto, 1 71122 800183459</p>



	<p>Az. Osp. "A. Cardarelli" Naples Via A. Cardarelli, 9 80131 081-5453333</p> <p>CAV Polyclinic "Umberto I" Rome V.le del Policlinico, 155 161 06-49978000</p> <p>CAV Polyclinic "A. Gemelli" Rome Largo Agostino Gemelli, 8 168 06-3054343</p> <p>Az. Osp. "Careggi" Medical Toxicology Unit Florence Largo Brambilla, 3 50134 055-7947819</p> <p>CAV National Center for Toxicological Information Pavia Via Salvatore Maugeri, 10 27100 0382-24444</p> <p>Osp. Niguarda Ca 'Granda Milan Piazza Maggiore Hospital, 3 20162 02-66101029</p> <p>Papa Giovanni XXII Hospital Bergamo OMS Square, 1 24127 800883300</p> <p>Verona Integrated Hospital Verona Piazzale Aristide Stefani, 1 37126 800011858</p>
Latvia	<p>Valsts ugunsdzēsības un glābšanas dienests, phone number: 112. Toksikoloģijas un sepses klīnikas Saindēšanās un zāļu informācijas centrs, Hipokrāta 2, Rīga, Latvija, LV-1038, phone number +371 67042473. Service is available 24 hours.</p>
Lithuania	Skambink telefonu 8-5 236 20 52
Luxembourg	070 245 245
Malta	<p>Ministry for Health 15, Palazzo Castellania, Merchants Street, Valletta, VLT 1171 Telephone 2122 4071</p>
Netherlands	<p>UMC Utrecht Heidelberglaan 100 3584 CX Utrecht 088 75 688 90</p>
Norway	<p>Kontakt Giftnformasjonen hvis uhellet er ute 2200 13 59 Døgnåpen telefon.</p>
Poland	<p>Bureau for Chemical Substances 30/34 Dowborczykow Street, 90-019 Lodz, Poland 400 2538 42 48+ E-mail biuro(at)chemikalia.gov.pl https://www.chemikalia.gov.pl/</p>
Portugal	<p>Centro de Informação Antivenenos – CIAV Em caso de intoxicação, ligue 800 250 250 Morada Instituto Nacional de Emergência Médica</p>

	Rua Almirante Barroso, 36 1000-013 Lisboa Telefone (Secretariado): 213 303 271 Fax: 213 303 275 E-mail: ciav.tox@inem.pt
Romania	Phone number: +40213183606
Slovakia	NATIONAL TOXICOLOGICAL INFORMATION CENTRE University Hospital Bratislava Limbová 5, 833 05 Bratislava Slovakia +421 2 5477 4166
Slovenia	Phone number: 112
Spain	Teléfono de emergencias: + 34 91 562 04 20 (Solo emergencias toxicológicas. Información en español (24h/365 días)
Sweden	Giftinformationscentralen Swedish Poisons Information Centre S-171 76 Stockholm SWEDEN När det är akut 112
United Kingdom	National Poisons Information Centre, Beaumont Hospital, Dublin 9, Ireland. Members of the public: In an emergency, if the patient has collapsed or is not breathing properly, call 999 For medical advice contact: NHS 111 in England: 111 NHS 24 in Scotland: 111 NHS Direct in Wales: 111 or 0845 4647 In Northern Ireland: contact your local GP or pharmacist during normal hours; click here for GP services Out-of-Hours. In Ireland: contact NPIC on (01) 809 2166 (8 am to 10 pm); outside of these hours contact your GP or hospital emergency department.

Full text of H & P-Statements referred to under sections 2 and 3.

Eye Dam Eye Damage
Eye Irrit Eye Irritation
STOT Specific target organ toxicity
Aquatic Chronic Aquatic Toxicity, Chronic Exposure

H318 Causes serious eye damage
H335 May cause respiratory irritation
H373 May cause damage to organs through prolonged or repeated exposure
H411 Toxic to aquatic life with long lasting effects

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P261 Avoid breathing dust/fume/gas/mist/ vapours/spray.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P304+P340 If INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338+P310 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
P310 Immediately call a POISON CENTER/ doctor
P312 Call a POISON CENTRE/doctor if you feel unwell.
P314 Get medical advice/attention if you feel unwell.
P391 Collect spillage.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.



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P405 Store locked up.
P501 Dispose of contents/container to a suitable disposal site in accordance with local/regional/national/international regulations

Training advice: Before using/handling the product one must read carefully present SDS.

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European
CAS: Chemical Abstracts Service (division of the American Chemical Society)
CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.
DNEL: Derived No Effect Level
EC50: Half maximal effective concentration
EINECS: European Inventory of Existing Commercial Chemical Substances
EU: European Union
GHS: Globally Harmonized System of Classification and Labeling of Chemicals
IATA: International Air Transport Association
IBC: International Bulk Code
IMDG: International Maritime Code for Dangerous Goods
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
MARPOL: International Convention for the Prevention of Pollution from Ships
OEL: Occupational Exposure Level
PBT: Persistent, Bioaccumulative and Toxic
PNEC: Predicted No Effect Level
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
SCBA: Self Contained Breathing Apparatus
SCL: Specific Concentration Limits
UN: United Nations
VPvB: Very Persistent and very Bioaccumulative
WEL: Workplace Exposure Limit

Document history

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