

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

Printing date 27.10.2023

Version number 39 (replaces version 38)

Revision: 27.10.2023

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

· **1.1 Product identifier**

· **Product name:** Vario TPTZ Iron F10 ml

· **Catalog number:** 00530559, 530550, 4530550, 00530549

· **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

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:**

disodium disulphite

· **Hazard statements**

H318 Causes serious eye damage.

· **Precautionary statements**

P261 Avoid breathing dust.

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P280 Wear protective gloves / eye 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.

Additional information:

EUH031 Contact with acids liberates toxic gas.

EUH208 Contains methenamine. May produce an allergic reaction.

- **2.3 Other hazards** No further relevant information available.

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 organic and inorganic compounds

Dangerous components:

CAS: 7681-57-4 EINECS: 231-673-0 Index No: 016-063-00-2 Reg.nr.: 01-2119531326-45-XXXX	disodium disulphite ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302, EUH031	10–20%
CAS: 7775-14-6 EINECS: 231-890-0 Index No: 016-028-00-1	sodium dithionite ⚠ Self-heat. 1, H251; ⚠ Acute Tox. 4, H302, EUH031 ATE: LD50 oral: 500 mg/kg	10–20%
CAS: 497-19-8 EINECS: 207-838-8 Index No: 011-005-00-2 Reg.nr.: 01-2119485498-19-XXXX	sodium carbonate ⚠ Eye Irrit. 2, H319	≤2.5%
CAS: 100-97-0 EINECS: 202-905-8 Index No: 612-101-00-2 Reg.nr.: 01-2119474895-20-XXXX	methenamine ⚠ Flam. Sol. 2, H228; ⚠ Skin Sens. 1, H317	0.1–<1%

- **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; consult doctor in case of symptoms.

After skin contact

Instantly rinse with water.

If skin irritation or rash occurs: Get medical advice/attention.

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.

Seek immediate medical advice.

- **Information for doctor** Sulphites are strong sensitizers.

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

Irritation and corrosion

allergic reactions

absorption

after inhalation:

mucosal irritations, cough, shortness of breath

asthma attacks

after swallowing:

sickness

vomiting

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gastric or intestinal trouble
diarrhoea
pain

- **Danger** Sulphites are strong sensitizers.

- **4.3 Indication of any immediate medical attention and special treatment needed:** No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**

- **Suitable extinguishing agents** CO₂, sand, extinguishing powder.

- **For safety reasons unsuitable extinguishing agents**

Water

Foam

If possible use dry extinguishing agents.

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

Substance/product is auto-extinguishing, but can burn when combined with flammable material.

mixture with combustible ingredients

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

Can be released in case of fire:

Sulphur oxides (SO_x)

Sodium oxide

Carbon monoxide (CO) and carbon dioxide (CO₂)

- **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.

Ensure adequate ventilation

Avoid causing dust.

- **Advice for emergency responders:**

Put on breathing apparatus.

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.

Collect mechanically.

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:**

Prevent formation of dust.

Thorough dedusting.

- **Hygiene measures:**

Avoid contact with the skin.

Avoid contact with the eyes.

Take off immediately all contaminated clothing.

Wash hands during breaks and at the end of the work.

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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.
- **Information about storage in one common storage facility:**
Store away from oxidising agents.
Do not store together with acids.
- **Further information about storage conditions:**
Store in cool, dry conditions in well sealed containers.
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: 7681-57-4 disodium disulphite
WEL (Great Britain) Long-term value: 5 mg/m³

· Regulatory information WEL (Great Britain): EH40/2020

· DNELs

Derived No Effect Level (DNEL)

CAS: 7681-57-4 disodium disulphite
Inhalative DNEL 10 mg/m³ (Worker / long-term /systemic effects)
(MERCK)
CAS: 7775-14-6 sodium dithionite

Dermal DNEL 8.8 mg/kg (Worker / long-term /systemic effects)

Inhalative DNEL 10 mg/m³ (Worker / long-term /systemic effects)
CAS: 497-19-8 sodium carbonate
Inhalative DNEL 10 mg/m³ (Worker / long-term / local effects)
CAS: 100-97-0 methenamine

Dermal DNEL 8.8 mg/kg (Worker / long-term /systemic effects)

Inhalative DNEL 31 mg/m³ (Worker / long-term /systemic effects)

· 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: 7681-57-4 disodium disulphite

PNEC 75.4 mg/l (Sewage treatment plant)

0.1 mg/l (Marine water)

1 mg/l (Fresh water)

CAS: 7775-14-6 sodium dithionite

PNEC 45.3 mg/l (Sewage treatment plant)

0.1 mg/l (Marine water)

1 mg/l (Fresh water)

CAS: 100-97-0 methenamine

PNEC 100 mg/l (Sewage treatment plant)

0.5 mg/l (Marine water)

2.4 mg/l (Fresh water sediment)

3 mg/l (Fresh water)

· 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

Protective 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

nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.11 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):

Protective work clothing.

· Breathing equipment:

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

· Recommended filter device for short term use:

Combination filter ABEK-P2

· Environmental exposure controls

Do not allow product to reach sewage system or water bodies.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· Physical state	Solid.
· Form:	Powder
· Colour:	White
· 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 (solid).
· Decomposition temperature:	Not determined.
· pH (10.4 g/l) at 20°C	3.4
· Kinematic viscosity	Not applicable (solid).
· Solubility	
· Water:	Soluble
· Partition coefficient n-octanol/water (log value)	Not applicable (mixture).
· Vapour pressure:	Not applicable.
· Density and/or relative density	
· Density:	Not determined.
· Relative density:	Not determined.
· Relative gas density	Not applicable (solid).
· Particle characteristics	Not determined.

· 9.2 Other information

· Information with regard to physical hazard classes

· Corrosive to metals	Void
· Other safety characteristics	
· Oxidising properties:	none

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Additional information	
Solids content:	100 %

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**
 - Contact with acids releases toxic gases
 - Reacts with moist air
 - Reacts with oxidizing agents
- **10.4 Conditions to avoid**
 - Exposure to moisture.
 - strong heating
- **10.5 Incompatible materials:**
 - sodium nitrite
 - sodium chlorite
- **10.6 Hazardous decomposition products:**
 - Sulphur dioxide
 - In case of fire: 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:**
 - The following statements refer to the individual components.

CAS: 7681-57-4 disodium disulphite		
Oral	LD50	1540 mg/kg (rat) (OECD 401) (MERCK)
Dermal	LD50.	>2000 mg/kg (rat) (RTECS)
Inhalative	LC50	>5.5 mg/l /4h (rat) (OECD 403) Registrant, ECHA: the value is given in analogy to sodium sulphite
CAS: 7775-14-6 sodium dithionite		
Oral	LD50	500 mg/kg (ATE)
	LD50.	2500 mg/kg (rat) (IUCLID)
CAS: 497-19-8 sodium carbonate		
Oral	LD50	2800 mg/kg (rat) (Registrant, ECHA)
	LDLo	714 mg/kg (human) (RTECS)
Dermal	LD50.	>2000 mg/kg (rabbit) (US-EPA) (Registrant, ECHA: No deaths occurred at this concentration)
Inhalative	LC50	5750 mg/l/2h (rat) (OECD 403)
CAS: 100-97-0 methenamine		
Oral	LD50	9200 mg/kg (rat) (IUCLID)
Dermal	LD50.	>2000 mg/kg (rat) (OECD 402)

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation**
 - Causes serious eye damage.
 - Risk of corneal clouding.

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Information on components:		
CAS: 7681-57-4 disodium disulphite		
Irritation of skin	OECD 404	(rabbit: no irritation)
Irritation of eyes	OECD 405	(rabbit: severe irritations)
CAS: 7775-14-6 sodium dithionite		
Irritation of skin	OECD 404	(rabbit: no irritation)
CAS: 497-19-8 sodium carbonate		
Irritation of skin	OECD 404	(rabbit: slight irritation)
Irritation of eyes	OECD 405	(rabbit: irritation) (US-EPA)
CAS: 100-97-0 methenamine		
Irritation of skin	OECD 404	(rabbit: no irritation)
Irritation of eyes	OECD 405	(rabbit: no irritation)

· **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

· **Information on components:**

Contains methenamine. May produce an allergic reaction.

CAS: 7681-57-4 disodium disulphite		
Sensitisation	OECD 406	(guinea pig: negative)
	OECD 429	(negative) Local lymph node assay (LLNA) - Mouse Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.
CAS: 100-97-0 methenamine		
Sensitisation	OECD 406	(guinea pig: positive)
	Patch test (human)	(positive) (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.

· **Information on components:**

CAS 7681-57-4: Did not show teratogenic effects in animal experiments.

CAS 7681-57-4: Did not show carcinogenic effects in animal experiments (IUCLID).

CAS 7681-57-4: No impairment of reproductive performance in animal experiments (IUCLID).

OECD 414: Teratogenicity testing

OECD 473: Mutagenicity testing

OECD 471, 474, 476, 487: Germ cell mutagenicity testing

CAS: 7681-57-4 disodium disulphite		
OECD 471	(negative) (Bacterial Reverse Mutation Test - Ames test)	
CAS: 497-19-8 sodium carbonate		
OECD 471	(Bacterial Reverse Mutation Test - Ames test) negative / Escherichia coli	
CAS: 100-97-0 methenamine		
OECD 471	(negative) (Bacterial Reverse Mutation Test - Ames test)	
OECD 474	(negative) (Mammalian Erythrocyte Micronucleus 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**

When working with sodium metabisulfite, inhalative and dermal exposures are to be expected. [GESTIS]

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Additional toxicological information:	
CAS: 7681-57-4 disodium disulphite	
<p>(source: GESTIS)</p> <p>Main toxic effects: Acute: Irritant effect on the eyes and respiratory tract, acute intolerance reactions (in case of disposition) chronic: allergic skin diseases (rare)</p> <p>Further information (Merck): Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting. Persons with allergies and/or asthma may exhibit hypersensitivity to sulfites.</p>	
CAS: 7775-14-6 sodium dithionite	
<p>(source: GESTIS)</p> <p>From general professional experience, an irritating effect on the mucous membranes is pointed out. An irritating effect on the eyes was demonstrated in several tests on the rabbit eye. Irrespective of the low general toxicity, however, it should be taken into account that released bisulfite/sulfite can trigger acute hypersensitivity reactions in sulfite-sensitive people (often asthmatics) (usually after oral or inhalative intake of small doses).</p>	

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

Aquatic toxicity:	
CAS: 7681-57-4 disodium disulphite	
EC50	89 mg/l/48h (Daphnia magna) (OECD 202) (MERCK)
IC50	48 mg/l/72h (Desmodesmus subspicatus) (OECD 201) (MERCK)
LC50	150–220 mg/l/96h (rainbow trout) (DIN 38412 Teil 15) (Merck)
CAS: 7775-14-6 sodium dithionite	
EC50	98 mg/l/48h (Daphnia magna) MERCK
IC50	206 mg/l/72h (Desmodesmus subspicatus) MERCK
LC50	46–68 mg/l/96h (gold orfe) (DIN 38412) (Merck)
CAS: 497-19-8 sodium carbonate	
EC50	220–227 mg/l/48h (Daphnia magna) (US-EPA) (Merck)
LC50	300 mg/l/96h (bluegill) (IUCLID) (Registrant, ECHA)
CAS: 100-97-0 methenamine	
EC50	36 mg/l/48h (Daphnia magna) (IUCLID)
EC10	5 mg/l (fish)
LC50 (static)	41 mg/l/96h (bluegill) (US-EPA)
Bacterial toxicity:	
sulphates toxic > 2.5 g/l	
CAS: 7681-57-4 disodium disulphite	
EC50	56 mg/l (Pseudomonas putida) (17h) (IUCLID)

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CAS: 7775-14-6 sodium dithionite	
EC50	107 mg/l (Pseudomonas putida) IUCLID
CAS: 100-97-0 methenamine	
EC50 (static)	>5000 mg/l (Bacterial toxicity) (DIN 38412) (Merck, Vibrio fischeri)
<ul style="list-style-type: none"> · Other information: Toxic for fish: Sulphates > 7 g/l 	
<ul style="list-style-type: none"> · 12.2 Persistence and degradability 	
CAS: 100-97-0 methenamine	
OECD 302 C	39–47 % / 28 d (not readily biodegradable) (Modified MITI Test (II))
<ul style="list-style-type: none"> · 12.3 Bioaccumulative potential 	
CAS: 7775-14-6 sodium dithionite	
log Pow	<-4.7 (.) (calculated)
CAS: 100-97-0 methenamine	
log Pow	-2.84 (.) (experimental) (IUCLID)
<ul style="list-style-type: none"> · 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 Reacts with water to form toxic decomposition products. Avoid transfer into the environment. · Water hazard: Do not allow product to reach ground water, water bodies or sewage system. Danger to drinking water if even small quantities leak into soil. 	

SECTION 13: Disposal considerations

<ul style="list-style-type: none"> · 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 06*	laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals
<ul style="list-style-type: none"> · Uncleaned packagings: · Recommendation: Disposal must be made according to official regulations. · Recommended cleaning agent: Water, if necessary with cleaning agent. 	

SECTION 14: Transport information

<ul style="list-style-type: none"> · 14.1 UN number or ID number · ADR, IMDG, IATA Void 	
<ul style="list-style-type: none"> · 14.2 UN proper shipping name · ADR, IMDG, IATA Void 	
<ul style="list-style-type: none"> · 14.3 Transport hazard class(es) · ADR, IMDG, IATA · Class Void 	
<ul style="list-style-type: none"> · 14.4 Packing group · ADR, IMDG, IATA Void 	
<ul style="list-style-type: none"> · 14.5 Environmental hazards: Not applicable. 	

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· 14.6 Special precautions for user	Not applicable.
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.

SECTION 15: Regulatory information

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

· Poisons Act UK

· Regulated explosives precursors

CAS: 100-97-0	methenamine	Listed
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· Regulated poisons

None of the ingredients is listed.

· Reportable explosives precursors

None of the ingredients is listed.

· Reportable poisons

None of the ingredients is listed.

· Regulation (EU) 2019/1148 on the marketing and use of explosives precursors

not regulated: homogeneous mixture of more than five components with c <1% (w/w) substance Annex I or II

· explosives precursors - ANNEX II

CAS: 100-97-0	methenamine
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· Regulation (EU) No 649/2012 concerning the export and import of hazardous chemicals (PIC)

None of the ingredients is listed.

· Regulation (EC) No 1334/2000 setting up a Community regime for the control of exports of dual-use items and technology:

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

· Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

· Regulation (EC) No 1005/2009 on substances that deplete the ozone layer:

None of the ingredients is listed.

· REGULATION (EU) 2019/1021 on persistent organic pollutants (POP)

None of the ingredients is listed.

· LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV)

None of the ingredients is listed.

· Substances of very high concern (SVHC) according to REACH, Article 57

This product does not contain any substances of very high concern above the legal concentration limit of $\geq 0.1\%$ (w / w).

· Substances of very high concern (SVHC) according to UK REACH

This product does not contain any substances of very high concern above the legal concentration limit of $\geq 0.1\%$ (w / w).

· Directive 2012/18/EU (SEVESO III):

· Named dangerous substances - ANNEX I

None of the ingredients is listed.

· Information about limitation of use:

Not required.

· 15.2 Chemical safety assessment:

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.

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

· **Relevant phrases**

H228 Flammable solid.
 H251 Self-heating; may catch fire.
 H302 Harmful if swallowed.
 H317 May cause an allergic skin reaction.
 H318 Causes serious eye damage.
 H319 Causes serious eye irritation.
 EUH031 Contact with acids liberates toxic gas.

· **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)
 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
 Flam. Sol. 2: Flammable solids – Category 2
 Self-heat. 1: Self-heating substances and mixtures – Category 1
 Acute Tox. 4: Acute toxicity – Category 4
 Eye Dam. 1: Serious eye damage/eye irritation – Category 1
 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
 Skin Sens. 1: Skin sensitisation – 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)
 GESTIS- Stoffdatenbank (Substance Database, Germany)
 ECHA: European Chemicals Agency <http://echa.europa.eu>

· * **Data compared to the previous version altered.**
