

Globally Harmonized System of Classification and Labelling of  
Chemicals (GHS)

**Concentrate Stainless Steel 180 kgs 14-07010**

Version 3.4

Revision Date 03.08.2022

Print Date 07.03.2023

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Trade name : Concentrate Stainless Steel 180 kgs 14-07010  
Material number : 08329525V

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

This information is not available.

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

Company : ECKART GmbH  
Guentersthal 4  
91235 Hartenstein  
Telephone : +499152770  
Telefax : +499152777008  
E-mail address : msds.eckart@altana.com  
Responsible/issuing person

**1.4 Emergency telephone number****NCEC:**

(contract no.: ECKART29003-NCEC)

+44 1235 239671 (Middle East/Africa, call and response in your language)

+1 215 207 0061 (Americas, call and response in your language)

+65 3158 1074 (Asia-Pacific, call and response in your language)

**SECTION 2: Hazards identification****GHS Classification**

: Flammable liquids, Category 2, H225  
Acute toxicity, Category 5, Inhalation, H333  
Skin corrosion/irritation, Category 2, H315

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Serious eye damage/eye irritation, Category 2A, H319  
 Specific target organ toxicity - single exposure, Category 3, Respiratory system, Central nervous system, H335H336  
 Specific target organ toxicity - repeated exposure, Category 2, H373  
 Aspiration hazard, Category 1, H304  
 Short-term (acute) aquatic hazard, Category 2, H401  
 Long-term (chronic) aquatic hazard, Category 2, H411

### GHS-Labeling

Symbol(s)



Signal word

: Danger

Hazard statements

: H225: Highly flammable liquid and vapour.  
 H304: May be fatal if swallowed and enters airways.  
 H315: Causes skin irritation.  
 H319: Causes serious eye irritation.  
 H333: May be harmful if inhaled.  
 H335: May cause respiratory irritation.  
 H336: May cause drowsiness or dizziness.  
 H373: May cause damage to organs through prolonged or repeated exposure.  
 H411: Toxic to aquatic life with long lasting effects.

Precautionary statements

: **Prevention:**  
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P233 Keep container tightly closed.  
 P240 Ground and bond container and receiving equipment.  
 P241 Use explosion-proof electrical/ ventilating/ lighting equipment.  
 P242 Use non-sparking tools.  
 P243 Take action to prevent static discharges.  
 P260 Do not breathe mist or vapours.

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P264 Wash skin thoroughly after handling.

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/ hearing protection.**Response:**P301 + P316 IF SWALLOWED: Get emergency medical  
help immediately.P303 + P361 + P353 IF ON SKIN (or hair): Take off  
immediately all contaminated clothing. Rinse affected areas  
with water.

P304 + P317 IF INHALED: Get medical help.

P304 + P340 + P319 IF INHALED: Remove person to fresh  
air and keep comfortable for breathing. Get medical help if you  
feel unwell.P305 + P351 + P338 IF IN EYES: Rinse cautiously with  
water for several minutes. Remove contact lenses, if present  
and easy to do. Continue rinsing.

P331 Do NOT induce vomiting.

P332 + P317 If skin irritation occurs: Get medical help.

P337 + P317 If eye irritation persists: Get medical help.

P370 + P378 In case of fire: Use dry sand, dry chemical or  
alcohol-resistant foam to extinguish.

P391 Collect spillage.

**Storage:**P403 + P233 Store in a well-ventilated place. Keep container  
tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

**Disposal:**P501 Dispose of contents/ container to an approved waste  
disposal plant.**Hazardous components which must be listed on the label**Identification  
xylene  
acetoneCAS-No.  
1330-20-7  
67-64-1

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Solvent naphtha (petroleum), light arom.  
chromium

64742-95-6  
7440-47-3

**SECTION 3: Composition/information on ingredients**

Substance No. :

**Hazardous components**

Chemical name	CAS-No. EINECS-No.	Classification and labelling	Concentration[%]
xylene	1330-20-7 215-535-7	Flam. Liq.;3;H226 Acute Tox.;4;H332 ;2;H315 ;2A;H319 STOT SE;3;H335 STOT RE;2;H373 Asp. Tox.;1;H304	20 - 25
acetone	67-64-1 200-662-2	Flam. Liq.;2;H225 Acute Tox.;5;H303 Acute Tox.;5;H313 ;2A;H319 STOT SE;3;H336	10 - 20
Solvent naphtha (petroleum), light arom.	64742-95-6 918-668-5	Flam. Liq.;3;H226 Acute Tox.;5;H303 Acute Tox.;5;H313 STOT SE;3;H335, H336 Asp. Tox.;1;H304 Aquatic Chronic;2;H411	10 - 20

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chromium	7440-47-3 231-157-5	Acute Tox.;5;H333 Aquatic Chronic;4;H413	2,5 - 10
trizinc bis(orthophosphate)	7779-90-0 231-944-3	Aquatic Chronic;1;H410 Aquatic Acute;1;H400	1 - 2,5
nickel	7440-02-0 231-111-4	Skin Sens.;1;H317 Carc.;2;H351 STOT RE;1;H372 Aquatic Chronic;3;H412	0,25 - 1
zinc oxide	1314-13-2 215-222-5	Aquatic Acute;1;H400 Aquatic Chronic;1;H410	0,25 - 1
methyl methacrylate	80-62-6 201-297-1	Flam. Liq.;2;H225 Skin Irrit.;2;H315 Skin Sens.;1;H317 STOT SE;3;H335	0,1 - 1
n-butyl methacrylate	97-88-1 202-615-1	Flam. Liq.;3;H226 Skin Irrit.;2;H315 Eye Irrit.;2;H319 Skin Sens.;1;H317 STOT SE;3;H335	0,1 - 1
N-(3-(trimethoxysilyl)propyl)ethylenediamine	1760-24-3 217-164-6	Acute Tox.;5;H303 Acute Tox.;4;H332	0,1 - 1

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		;1;H318 Skin Sens.;1;H317	
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For the full text of the H-Statements mentioned in this Section, see Section 16.

**SECTION 4: First aid measures****4.1 Description of first aid measures**

- General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.  
Symptoms of poisoning may appear several hours later.
- If inhaled : Consult a physician after significant exposure.  
If unconscious, place in recovery position and seek medical advice.
- In case of skin contact : If skin irritation persists, call a physician.  
If on skin, rinse well with water.  
If on clothes, remove clothes.
- In case of eye contact : Immediately flush eye(s) with plenty of water.  
Remove contact lenses.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
Do NOT induce vomiting.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Take victim immediately to hospital.

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

This information is not available.

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

This information is not available.

**SECTION 5: Firefighting measures****5.1 Extinguishing media**

Suitable extinguishing media : Alcohol-resistant foam, Carbon dioxide (CO<sub>2</sub>), Dry chemical

Unsuitable extinguishing media : High volume water jet

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

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

**5.3 Advice for firefighters**

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Use personal protective equipment.  
Ensure adequate ventilation.  
Remove all sources of ignition.

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Evacuate personnel to safe areas.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

**6.2 Environmental precautions**

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

**6.3 Methods and materials for containment and cleaning up**

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

**6.4 Reference to other sections**

This information is not available.

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**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

Advice on safe handling : Avoid formation of aerosol. Do not breathe vapours/dust.  
Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material.  
Take necessary action to avoid static electricity discharge



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(which might cause ignition of organic vapours). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.

Hygiene measures : When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

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

Requirements for storage areas and containers : No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards.

Other data : No decomposition if stored and applied as directed.

**7.3 Specific end use(s)**

This information is not available.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Germany:**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
xylene	1330-20-7	TWA	50 ppm 221 mg/m <sup>3</sup>	2000-06-16	2000/39/EC
Further information		Identifies the possibility of significant uptake through the skinIndicative			
xylene	1330-20-7	STEL	100 ppm 442 mg/m <sup>3</sup>	2000-06-16	2000/39/EC

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Further information		Identifies the possibility of significant uptake through the skinIndicative			
xylene	1330-20-7	AGW	50 ppm 220 mg/m3	2020-10-02	DE TRGS 900
Peak-limit: excursion factor (category)		2;(II)			
Further information		Skin absorption			
acetone	67-64-1	TWA	500 ppm 1 210 mg/m3	2000-06-16	2000/39/EC
Further information		Indicative			
acetone	67-64-1	AGW	500 ppm 1 200 mg/m3	2015-03-02	DE TRGS 900
Peak-limit: excursion factor (category)		2;(I)			
Further information		Commission for dangerous substancesSenate commission for the review of compounds at the work place dangerous for the health (MAK-commission).European Union (The EU has established a limit value: deviations in value and peak limit are possible)When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
Solvent naphtha (petroleum), light arom.	64742-95-6	AGW	100 mg/m3	2009-02-16	DE TRGS 900
Peak-limit: excursion factor (category)		2;(II)			
Further information		Group exposure limit for hydrocarbon solvent mixturesCommission for dangerous substancesSee also No. 2.9 of the TRGS 900			
iron	7439-89-6	AGW (Inhalable fraction)	10 mg/m3	2014-04-02	DE TRGS 900
Peak-limit: excursion factor (category)		2;(II)			

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iron	7439-89-6	AGW (Alveolate fraction)	1,25 mg/m3	2014-04-02	DE TRGS 900
Peak-limit: excursion factor (category)		2;(II)			
chromium	7440-47-3	TWA	2 mg/m3	2006-02-09	2006/15/EC
Further information		Indicative			
chromium	7440-47-3	AGW (Inhalable fraction)	2 mg/m3	2007-12-27	DE TRGS 900
Peak-limit: excursion factor (category)		1;(I)			
Further information		European Union (The EU has established a limit value: deviations in value and peak limit are possible)The threshold value is based on the element content of the corresponding metal.			
chromium	7440-47-3	TWA	2 mg/m3	2006-02-09	2006/15/EC
Further information		Indicative			
chromium	7440-47-3	AGW (Inhalable fraction)	2 mg/m3	2018-06-07	DE TRGS 900
Peak-limit: excursion factor (category)		1;(I)			
Further information		European Union (The EU has established a limit value: deviations in value and peak limit are possible)The threshold value is based on the element content of the corresponding metal.			
nickel	7440-02-0	TWA	0,5 mg/m3		DE TRGS 900
nickel	7440-02-0	AGW (Alveolate fraction)	0,006 mg/m3	2017-10-17	DE TRGS 900
Peak-limit: excursion factor (category)		8;(II)			
Further information		For nickel compounds classified as Carc 1A or 1B, see TRGS 910 and TRGS 561. An assessment based on the AGW for nickel metal can be carried out if nickel metal only is present. If nickel-containing dusts are formed during activities in which only surface oxidation is to be controlled, they must be treated as nickel-metal-containing mixtures. When using thermal processes in the			

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		presence of oxygen, a formation of oxidic nickel compounds must always be assumed. This is the case, for example, in welding (electrodes or wire) and thermal cutting with or from alloys, in the metal injection of alloys, in the melting and casting of alloys, and in the grinding and separation of alloys with 'spark formation'. Further recommendations as well as examples of working methods, for which the AGW or the ERB can be used for assessment, are contained in the IFA workbook (code 0537).Commission for dangerous substancesWhen there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn childSubstance sensitizing through the skin			
methyl methacrylate	80-62-6	TWA	50 ppm	2009-12-19	2009/161/EU
Further information		Indicative			
methyl methacrylate	80-62-6	STEL	100 ppm	2009-12-19	2009/161/EU
Further information		Indicative			
methyl methacrylate	80-62-6	AGW	50 ppm 210 mg/m <sup>3</sup>	2010-08-04	DE TRGS 900
Peak-limit: excursion factor (category)		2;(I)			
Further information		Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).European Union (The EU has established a limit value: deviations in value and peak limit are possible)When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			

**8.2 Exposure controls****Personal protective equipment**

Eye protection : Wear face-shield and protective suit for abnormal processing problems.

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**Hand protection**

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.

**Environmental exposure controls**

General advice : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

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**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

Appearance : liquid

Colour : No data available

Odour : characteristic

pH : substance/mixture is non-soluble (in water)

Freezing point : No data available

Boiling point/boiling range : 45 °C

Flash point : -18 °C

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Bulk density	: No data available
Flammability (solid, gas)	: No data available
Auto-flammability	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: No data available
Density	: ca. 1 g/cm <sup>3</sup>
Water solubility	: No data available
Miscibility with water	: immiscible
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Ignition temperature	: No data available
Thermal decomposition	: No data available
Viscosity	
Viscosity, dynamic	: see user defined free text
Viscosity, kinematic	: No data available
Flow time	: 25 - 35 s at 20 °C Cross section: 4 mm Method: DIN 53211

**9.2 Other information**

No data available

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**SECTION 10: Stability and reactivity****10.1 Reactivity**

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No decomposition if stored and applied as directed.

**10.2 Chemical stability**

No decomposition if stored and applied as directed.

**10.3 Possibility of hazardous reactions**

Hazardous reactions : No decomposition if stored and applied as directed.

Vapours may form explosive mixture with air.

**10.4 Conditions to avoid**

Conditions to avoid : Heat, flames and sparks.

**10.5 Incompatible materials**

Materials to avoid : No data available

**10.6 Hazardous decomposition products**

Other information : No data available

**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity****Components:****xylene :**

Acute inhalation toxicity : The component/mixture is moderately toxic after short term inhalation.

**acetone :**

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Acute oral toxicity : LD50 Rabbit: 4 700 - 5 800 mg/kg

Mouse: 3 000 mg/kg

Rat: 9 800 mg/kg

Acute inhalation toxicity : LC50 Rat: 76 mg/l

Exposure time: 4 h

Test atmosphere: vapour

Acute dermal toxicity : LD50 Rabbit: > 2 000 mg/kg

**Solvent naphtha (petroleum), light arom. :**

Acute oral toxicity : LD50 Rat: 3 492 mg/kg

Acute dermal toxicity : LD50 Rabbit: > 3 160 mg/kg

**chromium :**

Acute oral toxicity : LD50 Oral : > 5 000 mg/kg

Acute inhalation toxicity : LC50 : > 5,41 mg/l

Exposure time: 4 h



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Test atmosphere: dust/mist

**nickel :**

Acute oral toxicity : LD50 Oral : 9 000 mg/kg

**N-(3-(trimethoxysilyl)propyl)ethylenediamine :**

Acute oral toxicity : LD50 Rat: ca. 2 995 mg/kg

Acute inhalation toxicity : LC50 : 1,49 - 2,44 mg/l

Exposure time: 4 h

Test atmosphere: vapour

The component/mixture is moderately toxic after short term  
inhalation.

**Skin corrosion/irritation****Product**

May cause skin irritation in susceptible persons.

**Serious eye damage/eye irritation****Product**

Eye irritation

**Respiratory or skin sensitisation**

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No data available

**Carcinogenicity**

No data available

**Toxicity to reproduction/fertility**

No data available

**Reprod.Tox./Development/Teratogenicity**

No data available

**STOT - single exposure**

No data available

**STOT - repeated exposure**

No data available

**Aspiration toxicity**

No data available

**Further information****Product**

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.,  
Concentrations substantially above the TLV value may cause narcotic effects., Solvents may  
degrease the skin.

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**SECTION 12: Ecological information****12.1 Toxicity****Components:****acetone (67-64-1) :**

Toxicity to daphnia and other : (Daphnia magna (Water flea)): 21 600 mg/l  
aquatic invertebrates

**Solvent naphtha (petroleum), light arom. (64742-95-6) :****Ecotoxicology Assessment**

Long-term (chronic) aquatic : Toxic to aquatic life with long lasting effects.  
hazard

**chromium (7440-47-3) :****Ecotoxicology Assessment**

Long-term (chronic) aquatic : May cause long lasting harmful effects to aquatic life.  
hazard

**nickel (7440-02-0) :****Ecotoxicology Assessment**

Long-term (chronic) aquatic : Harmful to aquatic life with long lasting effects.  
hazard

**zinc oxide (1314-13-2) :**

M-Factor : 1

**Ecotoxicology Assessment**

Short-term (acute) aquatic : Very toxic to aquatic life.  
hazard

Long-term (chronic) aquatic : Very toxic to aquatic life with long lasting effects.  
hazard

**12.2 Persistence and degradability**

No data available

**12.3 Bioaccumulative potential**

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No data available

**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment**

No data available

**12.6 Other adverse effects****Product:**

Additional ecological  
information

: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Toxic to aquatic life with long lasting effects.

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**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

- Product : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.  
In accordance with local and national regulations.
- Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.  
In accordance with local and national regulations.

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**SECTION 14: Transport information****14.1 UN number**

ADR	: 1263
TDG	: 1263
CFR	: 1263
IMDG	: 1263
IATA	: 1263

**14.2 Proper shipping name**

ADR	: PAINT ( ,Solvent naphtha)
TDG	: PAINT
CFR	: PAINT
IMDG	: PAINT ( ,Solvent naphtha)
IATA	: PAINT

**14.3 Transport hazard class**

ADR	: 3
TDG	: 3
CFR	: 3
IMDG	: 3
IATA	: 3

**14.4 Packing group**

ADR	
Packaging group	: II

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Classification Code : F1  
Hazard Identification Number : 33  
Labels : 3  
Tunnel restriction code : (D/E)

**TDG**

Packaging group : II  
Labels : 3

**CFR**

Packaging group : II  
Labels : 3

**IMDG**

Packaging group : II  
Labels : 3  
EmS Number : F-E, S-E

**IATA**

Packing instruction (cargo aircraft) : 364  
Packing instruction (passenger aircraft) : 353  
Packing instruction (LQ) : Y341  
Packaging group : II  
Labels : 3

**14.5 Environmental hazards**

**IMDG** : Marine pollutant  
**ADR** : Environmentally hazardous

**14.6 Special precautions for user**

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**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

No data available

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	: Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	: Not applicable
Regulation (EU) 2019/1021 on persistent organic pollutants (recast)	: Not applicable
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)	:
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)	: Banned and/or restricted (xylene) (acetone) (Solvent naphtha (petroleum), light arom.) (chromium) (nickel) (ethylbenzene) (methyl methacrylate) (n-butyl methacrylate) (Castor oil, sulfated, sodium salt) (butan-1-ol) (N-(3-(trimethoxysilyl)propyl)ethylenediami

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**15.2 Chemical safety assessment**

No data available

**SECTION 16: Other information****Full text of H-Statements**

H225	: Highly flammable liquid and vapour.
H226	: Flammable liquid and vapour.
H303	: May be harmful if swallowed.
H304	: May be fatal if swallowed and enters airways.
H313	: May be harmful in contact with skin.
H315	: Causes skin irritation.
H317	: May cause an allergic skin reaction.
H318	: Causes serious eye damage.
H319	: Causes serious eye irritation.
H332	: Harmful if inhaled.
H333	: May be harmful if inhaled.
H335	: May cause respiratory irritation.
H336	: May cause drowsiness or dizziness.
H351	: Suspected of causing cancer.
H372	: Causes damage to organs through prolonged or repeated exposure if inhaled.
H373	: May cause damage to organs through prolonged or repeated exposure.
H400	: Very toxic to aquatic life.
H401	: Toxic to aquatic life.
H410	: Very toxic to aquatic life with long lasting effects.
H411	: Toxic to aquatic life with long lasting effects.
H412	: Harmful to aquatic life with long lasting effects.
H413	: May cause long lasting harmful effects to aquatic life.



# SAFETY DATA SHEET



Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

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