

Safety data sheet

according to UK REACH

Printing date 10.03.2026

Version number 7.2

Revision: 10.03.2026

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

Product identifier**Trade name:** HARDENER for Oil Stain**Article number:** 6631**Relevant identified uses of the substance or mixture and uses advised against**Use : For hardener coatings for industrial or professional applications.
Recommended use : Not suitable for household use.**Application of the substance / the mixture**Hardening agent/ Curing agent
Use only in combination with Osmo Oil Stain**Details of the supplier of the safety data sheet****Manufacturer/Supplier:** Osmo Holz und Color GmbH & Co. KG
Affhüppen Esch 12
D-48231 Warendorf
Germany**Further information obtainable from:**Product safety department
Tel.: +49 (0) 251 / 692 - 188
Fax: +49 (0) 251 / 692 - 462
e-mail: helmut.starp@osmo.de**Emergency telephone number:**emergency phone no. Berlin (24h): +49 (0) 30 / 30686 790 advisory service in German and English
IE: 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)
Members of the public seeking specific information on poisons should contact:
In England and Wales: NHS 111 - dial 111
In Scotland: NHS 24 - dial 111**Importer**Importer for UK:
OSMO UK,
Smeaton Close
Unit 24 Anglo Business Park
Aylesbury, Bucks HP19 8UP
Phone: 01296 481 220, www.osmouk.com
United Kingdom

2 Hazards identification

Classification of the substance or mixture

Flam. Liq. 3 H226 Flammable liquid and vapour.

Acute Tox. 4 H332 Harmful if inhaled.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause respiratory irritation.

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Additional information:

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

Label elements**Hazard pictograms**

GHS02 GHS07

Signal word

Warning

Hazard-determining**components of labelling:**
 Hexamethylene diisocyanate, oligomers
 hexamethylene-di-isocyanate
Hazard statements
 H226 Flammable liquid and vapour.
 H332 Harmful if inhaled.
 H317 May cause an allergic skin reaction.
 H335 May cause respiratory irritation.
Precautionary statements
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P271 Use only outdoors or in a well-ventilated area.
 P302+P352 IF ON SKIN: Wash with plenty of water.
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 P405 Store locked up.
 P501 Dispose of contents/container in accordance with national regulations.
Additional information:**Other hazards**
 EUH204 Contains isocyanates. May produce an allergic reaction.
 Always wear a dust mask when sanding.
 Observe the general safety regulations when handling chemicals.
Results of PBT and vPvB assessment**PBT:** Not applicable**vPvB:** Not applicable

3 Composition/information on ingredients

Chemical characterisation: Mixtures**Description:** Mixture of substances listed below with nonhazardous additions.**Dangerous components:**

CAS: 28182-81-2	Hexamethylene diisocyanate, oligomers	50–100%
NLP: 500-060-2	Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335	
Reg.nr.: 01-2119488934-20		

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CAS: 108-65-6 EINECS: 203-603-9 Index number: 607-195-00-7 Reg.nr.: 01-2119475791-29	2-methoxy-1-methylethyl acetate Flam. Liq. 3, H226	10–25%
CAS: 822-06-0 EINECS: 212-485-8 Index number: 615-011-00-1 Reg.nr.: 01-2119457571-37	hexamethylene-di-isocyanate Acute Tox. 3, H331; Resp. Sens. 1, H334; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335 Specific concentration limits: Resp. Sens. 1; H334: C ≥ 0.5 % Skin Sens. 1; H317: C ≥ 0.5 %	<0.1%

Additional information:

< 0.1% diisocyanates (UK REACH XVII 74)

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

4 First aid measures

Description of first aid measures**General information:**

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After inhalation:

Seek medical treatment in case of complaints.

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

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

After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing:

Rinse mouth.

Information for doctor:
**Most important symptoms
and effects, both acute and
delayed**

No further relevant information available.

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

No further relevant information available.

5 Firefighting measures

Extinguishing media**Suitable extinguishing****agents:**CO₂, powder or water spray. Fight larger fires with water spray.
**For safety reasons unsuitable
extinguishing agents:**

None known.

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Special hazards arising from the substance or mixture

Nitrogen oxides (NO_x)
 Isocyanate vapors
 (Traces)
 Hydrogen cyanide (HCN)
 Do not inhale explosion gases or combustion gases.
 Formation of toxic gases is possible during heating or in case of fire.
 Carbon monoxide (CO)
 carbon dioxide (CO₂)

Advice for firefighters
Protective equipment:

Wear fully protective suit.
 Mouth respiratory protective device.
 Do not inhale explosion gases or combustion gases.
 Wear self-contained respiratory protective device.

Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
 Cool endangered receptacles with water spray.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.
 Ensure adequate ventilation
 Keep away from ignition sources.
 Wear protective clothing.

Environmental precautions:

Do not allow to enter sewers/ surface or ground water.

Methods and material for
containment and cleaning up:

Remove mechanically; cover residues with moist, liquid-binding material (e.g. sawdust, calcium silicate hydrate-based chemical binder, sand). After about 1 hour, take up in waste container, do not close (CO₂ evolution!). Keep moist and leave in a safe place outdoors for several days.
 The leakage area can be decontaminated with the following recommended decontaminant:
 Decontaminant 1: 8-10% sodium carbonate and 2% aqueous liquid soap.
 Decontaminant 2: Liquid/yellow soap (potassium soap with ~15% anionic surfactants): 20ml; water :700ml; polyethylene glycol (PEG 400): 350ml
 Decontaminant 3: 30% commercial liquid detergent (containing monoethanolamine), 70% water.
 Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).
 Dispose of the material collected according to regulations.
 Dispose contaminated material as waste according to section 13.
 Ensure adequate ventilation.
 Warm water and cleansing agent

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Reference to other sections See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.

7 Handling and storage

Handling:

Precautions for safe handling Use only in well ventilated areas.
 Spraying requires the extraction of air.
 The air limit values mentioned in Chapter 8 must be observed. In workplaces where aerosols and/or vapours of isocyanates may occur in higher concentrations, targeted air pollution control shall be used to avoid exceeding the occupational hygiene limit value. Air movement must be kept away from people.
 The personal protection measures described in Chapter 8 must be followed. When handling isocyanates, the required protective measures must be observed. Avoid contact with skin and eyes and inhalation of vapours. Keep away from heat and direct sunlight.
 Keep receptacles tightly sealed.
 Prevent formation of aerosols.
 Open and handle receptacle with care.
 Avoid contact with skin and eyes.

General protective and hygienic measures:

Be sure to clean skin thoroughly after work and before breaks.
 Immediately remove all soiled and contaminated clothing
 Wash hands before breaks and at the end of work.
 Avoid contact with the eyes and skin.
 Do not eat, drink, smoke or sniff while working.
 Do not carry product impregnated cleaning cloths in trouser pockets.

Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.
 Protect against electrostatic charges.
 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by

storerooms and receptacles: Store only in the original receptacle.
 Store in a cool location.

Information about storage in one common storage facility:

Not required

Further information about storage conditions:

Keep container tightly sealed.
 Store in cool, dry conditions in well sealed receptacles.
 Protect from frost.

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Storage class:

TRGS 510 Storage class 3: Flammable liquids

Specific end use(s)

No further relevant information available.

8 Exposure controls/personal protection

Control parameters

Ingredients with limit values that require monitoring at the workplace:

CAS: 108-65-6 2-methoxy-1-methylethyl acetate

WEL	Short-term value: 548 mg/m ³ , 100 ppm
	Long-term value: 274 mg/m ³ , 50 ppm
	Sk

CAS: 822-06-0 hexamethylene-di-isocyanate

WEL	Short-term value: 0.07 mg/m ³
	Long-term value: 0.02 mg/m ³
	Sen; as -NCO

DNELs

CAS: 108-65-6 2-methoxy-1-methylethyl acetate

Oral	DNEL Verbraucher (Langzeit - systemische Effekte)	36 mg/kgKG/Tag
Inhalative	Worker (chronic - Systemic health effec)	275 mg/m ³
	DNEL Verbraucher (Lanzzeit - systemische Effekte)	33 mg/m ³

PNECs

CAS: 28182-81-2 Hexamethylene diisocyanate, oligomers

PNEC sea water	0.0127 mg/l
PNEC fresh water	0.127 mg/l
PNEC sediment (fresh water)	266,701 mg/kg
PNEC sediment (sea water)	26,670 mg/kg /Trocke
PNEC soil	53,183 mg/kg /Trocke
PNEC sewage treatment plant	88 mg/l

CAS: 108-65-6 2-methoxy-1-methylethyl acetate

PNEC sea water	0.064 mg/l
PNEC fresh water	0.635 mg/l
PNEC sediment (fresh water)	3.29 mg/kg
PNEC sediment (sea water)	0.329 mg/kg
PNEC soil	0.29 mg/kg
PNEC sewage treatment plant	100 mg/l

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Ingredients with biological limit values:
CAS: 822-06-0 hexamethylene-di-isocyanate

BMGV	1 µmol creatinine/mol Medium: urine Sampling time: At the end of the period of exposure Parameter: isocyanate-derived diamine
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**Additional Occupational
Exposure Limit Values for
possible hazards during
processing:**

Derived no adverse effect exposure level (DNEL)
 Hexamethylene-1,6-diisocyanate homopolymer
 (Value type Exposure route Health effect Value Remarks)
 Worker - Inhalation - Long-term - Systemic effects: No hazard identified
 Worker - Inhalation - Acute - Systemic effects: No hazard identified
 Worker - Inhalation - Acute - Local effects:
 Worker - Dermal - Long-term - systemic effects: No hazard identified
 Workers - Dermal - Acute - Systemic Effects: No hazard identified
 Workers - Dermal Long-term - local effects: High risk (no limit value derived)
 Most critical endpoint: Sensitization (skin)
 Workers - Dermal - Acute - Local effects: High risk (no limit value derived)
 Most critical endpoint: sensitisation (skin)
 Workers - Eye contact - Local effects: No hazard identified
 The lists valid during the making were used as basis.

Additional information:
Exposure controls
Personal protective equipment:
**General protective and
hygienic measures:**

Keep away from foodstuffs, beverages and feed.
 Immediately remove all soiled and contaminated clothing
 Avoid contact with the eyes and skin.
 The usual precautionary measures are to be adhered to when handling chemicals.
 Store protective clothing separately.
 Do not eat, drink, smoke or sniff while working.
 See Section 7 for information on safe handling.

Respiratory protection:

In the case of respiratory and skin hypersensitivity (asthma, chronic bronchitis, chronic skin diseases), handling of the product is not recommended.
 Respiratory protection required at inadequately ventilated workplaces and during spray processing.
 Fresh air masks or combination filters A2-P2 (EN529) are recommended for short-term work.
 Use suitable respiratory protective device only when aerosol or mist is formed.

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Protection of hands:	Not necessary if room is well-ventilated. In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.
Material of gloves	Protective gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation Suitable materials for protective gloves; EN 374: Butyl rubber - IIR: thickness $\geq 0.5\text{mm}$; breakthrough time $\geq 480\text{min}$. Fluorocarbon rubber - FKM: thickness $\geq 0.4\text{mm}$; breakthrough time $\geq 480\text{min}$. Multi-layer glove - PE/EVAL/PE ; Breakthrough time $\geq 480\text{min}$. Recommendation: Dispose of contaminated gloves. 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 can not be calculated in advance and has therefore to be checked prior to the application.
Penetration time of glove material	The penetration time of the mixture shall be at least 480 minutes (permeability according to EN 374 Part III: level 6).
Not suitable are gloves made of the following materials:	Nitrile rubber, NBR
Eye protection:	Tightly sealed goggles
Body protection:	Wear suitable protective clothing when working. Protective work clothing

9 Physical and chemical properties

Information on basic physical and chemical properties

General Information

Appearance:

Form:	Fluid
Colour:	Colourless
Odour:	Mild
Odour threshold:	Not determined

pH-value: Mixture is non-soluble (in water).

Change in condition

Melting point/freezing point: Undetermined

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Initial boiling point and boiling range: 146 °C	
Flash point:	>45 °C (DIN EN ISO 2719)
Flammability	Flammable.
Auto-ignition temperature:	315 °C
Decomposition temperature:	Not determined
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
Explosion limits:	
Lower:	1.5 Vol %
Upper:	10.8 Vol %
Vapour pressure at 20 °C:	3.4 hPa
Density at 20 °C:	1.10-1.13 g/cm ³ (DIN 51757)
Relative density	Not determined
Evaporation rate	Not determined
Solubility in / Miscibility with water:	Fully miscible.
Partition coefficient: n-octanol/water:	Not determined
Viscosity:	
Dynamic:	Not determined
Solvent content:	
VOC (EC)	~150 g/l
Other information	No further relevant information available.

10 Stability and reactivity

Reactivity No further relevant information available.

Chemical stability

Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

Possibility of hazardous reactions

Reacts with alcohols.

Reacts with amines.

with water gradual CO₂ development, in closed containers pressure build-up; danger of bursting.

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Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Incompatible materials:

No further relevant information available.

Hazardous decomposition products:

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

11 Toxicological information

Information on toxicological effects**Acute toxicity****LD/LC50 values relevant for classification:****ATE (Acute Toxicity Estimates)**

Inhalative	LC50 / 4h	>13 mg/l
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CAS: 28182-81-2 Hexamethylene diisocyanate, oligomers

Oral	LD50	>2,500 mg/kg (rat) (OECD 423)
Dermal	LD50	>2,000 mg/kg (rat) (Acute Dermal Toxicity)
Inhalative	LC50 / 4h	11 mg/l (ATE)

CAS: 108-65-6 2-methoxy-1-methylethyl acetate

Oral	LD50	8,532 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)
Inhalative	LC50 / 4h	35.7 mg/l (rat)

CAS: 822-06-0 hexamethylene-di-isocyanate

Oral	LD50	738 mg/kg (rat)
Dermal	LD50	593 mg/kg (rat)
Inhalative	LC50 / 4h	3 mg/l (ATE)

Primary irritant effect:**Skin corrosion/irritation****CAS: 28182-81-2 Hexamethylene diisocyanate, oligomers**

Dermal	Skin irritation	(rabbit) (OECD- Prüfrichtlinie 404)
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Serious eye damage/irritation**CAS: 28182-81-2 Hexamethylene diisocyanate, oligomers**

Eye irritation	(rabbit)
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Respiratory or skin**sensitisation**

May cause an allergic skin reaction.

CAS: 28182-81-2 Hexamethylene diisocyanate, oligomers

Inhalative	sensitization	(mouse) (Lokaler Lymphknoten-Test (LLNA))
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Subacute to chronic toxicity:**CAS: 28182-81-2 Hexamethylene diisocyanate, oligomers**

NOAEL | 3.3 mg/Tag /inhalativ (rat)

Experience with humans: Special properties/effects: concerns for concentration-dependent irrit effects on eyes, nose, throat and respiratory tract as a consequence of excessive exposure, in particular from spraying of lacquers containing isocyanate without protective measures. Delayed onset of symptoms and hypersensitivity (breathing difficulties, cough, asthma) may occur. In hypersensitive individuals, reactions may occur even at very low concentrations of isocyanates, even below the MAK value. Tanning and irritation may occur with prolonged skin contact.

Additional toxicological information:

May cause an allergic skin reaction.

Harmful

Irritant

Sensitisation

May cause an allergic skin reaction.

12 Ecological information

Toxicity**Aquatic toxicity:****CAS: 28182-81-2 Hexamethylene diisocyanate, oligomers**

EC50 / 48h | >100 mg/l (Daphnia magna) (OECD- Prüfrichtlinie 202)

IC50 / 72h | >1,000 mg/l (algae) (DIN 38412)

LC50 / 96h | >100 mg/l (Brachydanio rerio) (OECD- Prüfrichtlinie 203)

biodegradability | 28 % (OECD Guideline for Testing of Chemicals, No.301 D)

Bioconceived factor | 3.2 /(berechnet)

CAS: 108-65-6 2-methoxy-1-methylethyl acetate

LC50 / 96h | 134 mg/l (fish) (Fish Acute Toxicity Test)

Persistence and degradability No further relevant information available.**Behaviour in environmental systems:****Bioaccumulative potential****CAS: 28182-81-2 Hexamethylene diisocyanate, oligomers**

log POW | ~8.38 (Wert berechnet)

Mobility in soil No further relevant information available.**Ecotoxicological effects:****Behaviour in sewage processing plants:****CAS: 28182-81-2 Hexamethylene diisocyanate, oligomers**

EC0 / 3h | >100 mg/l (Daphnia magna)

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EC50	3,828 mg/l (activated sludge organism) (OECD Guideline for Testing of Chemicals, No.209)
CAS: 108-65-6 2-methoxy-1-methylethyl acetate	
EC50	>1,000 mg/l (algae) >1,000 mg/l (activated sludge organism) >100 mg/l (Daphnia magna) >100 mg/l (fish)

Additional ecological information:

General notes: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Results of PBT and vPvB assessment

PBT: Not applicable

vPvB: Not applicable

Other adverse effects Isocyanate reacts with water at the interface to form carbon dioxide and a solid, high-melting and insoluble reaction product (polyurea). This reaction is strongly promoted by interface-active substances (e.g. liquid soaps) or water-soluble solvents. According to experience to date, polyurea is inert and non-degradable.

13 Disposal considerations

Waste treatment methods**Recommendation**

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

Disposal must be made according to official regulations.

Uncleaned packaging:**Recommendation:**

Disposal must be made according to official regulations.

Waste treatment methods:

After final product withdrawal, all residues must be removed from containers (drip-free, powderfree or paste-free). Once the product residues adhering to the walls of the containers have been rendered harmless, the product and hazard labels must be invalidated. These containers can be returned for recycling to the appropriate centres set up within the framework of the existing takeback scheme of the chemical industry. Containers must be recycled in compliance with national legislation and environmental regulations.

Recommended cleansing agents:

Water, if necessary together with cleansing agents.

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14 Transport information

UN-Number ADR, IMDG, IATA	UN1263
UN proper shipping name ADR IMDG, IATA	1263 PAINT RELATED MATERIAL PAINT RELATED MATERIAL
Transport hazard class(es) ADR Class Label	3 (F1) Flammable liquids. 3
IMDG, IATA Class Label	3 Flammable liquids. 3
Packing group ADR, IMDG, IATA	III
Environmental hazards: Marine pollutant:	No
Special precautions for user Hazard identification number (Kemler code): EMS Number: Stowage Category	Warning: Flammable liquids. 30 F-E, S-E A
Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable
Transport/Additional information:	
ADR Limited quantities (LQ) Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
Transport category Tunnel restriction code	3 D/E
IMDG Limited quantities (LQ) Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

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UN "Model Regulation":

UN 1263 PAINT RELATED MATERIAL, 3, III

15 Regulatory information

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

Regulated explosives precursors

None of the ingredients is listed.

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.

GHS label elements

The product is classified and labelled according to the Globally Harmonised System (GHS).

Hazard pictograms


GHS02 GHS07

Signal word

Warning

Hazard-determining components of labelling:
Hexamethylene diisocyanate, oligomers
hexamethylene-di-isocyanate
Hazard statements
H226 Flammable liquid and vapour.
H332 Harmful if inhaled.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.
Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P271 Use only outdoors or in a well-ventilated area.
 P302+P352 IF ON SKIN: Wash with plenty of water.
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 P405 Store locked up.
 P501 Dispose of contents/container in accordance with national regulations.

Chemical safety assessment
Named dangerous
substances - ANNEX I

None of the ingredients is listed.

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Qualifying quantity (tonnes)
for the application of lower-tier requirements

5,000 t

Qualifying quantity (tonnes)
for the application of upper-tier requirements

50,000 t

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

Classification according to
Regulation (EC) No 1272/2008

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

Department issuing SDS:

product safety department

Contact:

Hr. Dr. Starp

Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 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)
 VOC: Volatile Organic Compounds (USA, EU)
 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
 vPvB: very Persistent and very Bioaccumulative
 ATE: Acute toxicity estimate values
 Flam. Liq. 3: Flammable liquids – Category 3
 Acute Tox. 3: Acute toxicity – Category 3
 Acute Tox. 4: Acute toxicity – Category 4
 Skin Irrit. 2: Skin corrosion/irritation – Category 2
 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
 Resp. Sens. 1: Respiratory sensitisation – Category 1
 Skin Sens. 1: Skin sensitisation – Category 1
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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Sources

ESIS : European chemical Substances Information System
ECHA Portal
Safety data sheets from raw material suppliers

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

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