

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) 2020/878



Article No.: 4615  
Print date: 21.08.2025  
Version: 22

Single Top Oil  
Revision date: 20.05.2025  
Issue date: 20.05.2025

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

1.1. **product identifiers**

Article No. (manufacturer/supplier) 4615  
Trade name/designation Single Top Oil  
Off White  
transparent

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

**Relevant identified uses:**

Coating / Varnish

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

**manufacturer**

Saicos Colour GmbH  
Carl-Zeiss-Str.3  
D-48336 Sassenberg

Telephone: +49 (0) 2583 3037-0  
Telefax: +49 (0) 2583 3037-10

**Department responsible for information:**

E-mail (competent person) info@saicos.de

1.4. **Emergency telephone number**

Giftnotruf Berlin: +49 30 30686 700 Beratung in Deutsch und Englisch

**SECTION 2: Hazards identification**

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

**Classification according to Regulation (EC) No 1272/2008 [CLP]**

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

2.2. **Label elements**

**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

**Hazard pictograms**

**Hazard statements**

not applicable

**Precautionary statements**

not applicable

**Hazard components for labelling**

not applicable

**Supplemental hazard information**

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.  
EUH210 Safety data sheet available on request.

2.3. **Other hazards**

No information available.

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

3.2. **Mixtures**

**Description** Oil

**Classification according to Regulation (EC) No 1272/2008 [CLP]**

EC No.	REACH No.	weight-%
CAS No.	Designation	
Index No.	classification // Remark	
265-150-3	01-2119457273-39	
64742-48-9	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	5 - 10
649-327-00-6	Asp. Tox. 1 H304 / EUH066	
919-857-5	01-2119463258-33	
64742-48-9	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	2,5 - 5
649-327-00-6	Flam. Liq. 3 H226 / Asp. Tox. 1 H304 / STOT SE 3 H336	

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927-632-8 64742-47-8	01-2119457736-27 Hydrocarbon C14 - C18 , n - alkanes , isoalkanes , cyclic compounds < 2 % aromatics Asp. Tox. 1 H304 / EUH066	2,5 - 5
920-107-4 64742-47-8	01-2119453414-42 Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics Asp. Tox. 1 H304 / EUH066	2,5 - 5
282-780-4 84418-68-8	01-2119978981-18 Zinc neodecanoate Aquatic Acute 1 H400 / Aquatic Chronic 2 H411	1 - 2,5

**Additional information**

Full text of classification: see section 16

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**General information**

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

**In case of inhalation**

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

**Following skin contact**

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

**After eye contact**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

**Following ingestion**

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

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

In all cases of doubt, or when symptoms persist, seek medical advice.

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

First Aid, decontamination, treatment of symptoms.

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable extinguishing media**

alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

**Unsuitable extinguishing media**

strong water jet

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

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

**5.3. Advice for firefighters**

Provide a conveniently located respiratory protective device. Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

**SECTION 6: Accidental release measures**

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

Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

**6.3. Methods and material for containment and cleaning up**

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it

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for disposal in appropriate containers in accordance with the local regulations (see section 13). Clean using cleansing agents. Do not use solvents.

## 6.4. Reference to other sections

Observe protective provisions (see section 7 and 8).

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advices on safe handling

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Product may become electrostatically charged. Provide earthing of containers, equipment, pumps and ventilation facilities. Anti-static clothing including shoes are recommended. Floors must be electrically conductive. Keep away from heat sources, sparks and open flames. Use only spark proof tools. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to section 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

#### Further information

Vapours are heavier than air. Vapours form explosive mixtures with air.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSivO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (TRGS 727)".

#### Hints on joint storage

Keep away from strongly acidic and alkaline materials as well as oxidizers.

#### Further information on storage conditions

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 15 °C and 30 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

### 7.3. Specific end use(s)

Observe technical data sheet. Observe instructions for use.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limit values:

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Index No. 649-327-00-6 / EC No. 265-150-3 / CAS No. 64742-48-9

WEL, TWA: 800 mg/m<sup>3</sup>

Remark: (> or = C7, Cycloalkanes)

WEL, TWA: 1200 mg/m<sup>3</sup>

Remark: (alkanes >= C7)

WEL, TWA: 1200 mg/m<sup>3</sup>

Remark: (alkanes >= C7)

WEL, TWA: 1200 mg/m<sup>3</sup>

Remark: (alkanes >= C7)

#### Additional information

TWA : Long-term occupational exposure limit value

STEL : short-term occupational exposure limit value

Ceiling : peak limitation

#### DNEL:

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Index No. 649-327-00-6 / EC No. 919-857-5 / CAS No. 64742-48-9

DNEL long-term oral (repeated), Consumer: 125 mg/kg bw/day

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DNEL long-term dermal (systemic), Consumer: 125 mg/kg bw/day  
DNEL long-term inhalative (systemic), Consumer: 185 mg/m<sup>3</sup>

Zinc neodecanoate

EC No. 282-780-4 / CAS No. 84418-68-8

DNEL long-term dermal (systemic), Workers: 7,41 mg/kg bw/day  
DNEL long-term inhalative (systemic), Workers: 22,04 mg/m<sup>3</sup>  
DNEL long-term oral (repeated), Consumer: 1,88 mg/kg bw/day  
DNEL long-term dermal (systemic), Consumer: 1,06 mg/kg bw/day  
DNEL long-term inhalative (systemic), Consumer: 6,52 mg/m<sup>3</sup>

**PNEC:**

Zinc neodecanoate

EC No. 282-780-4 / CAS No. 84418-68-8

PNEC aquatic, freshwater: 89,6 µg/L  
PNEC aquatic, marine water: 26,5 µg/L  
PNEC sediment, freshwater: 512 mg/kg dry weight  
PNEC sediment, marine water: 245 mg/kg dry weight  
PNEC, soil: 154 mg/kg dry weight

**8.2. Exposure controls**

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

**Personal protection equipment**

**Respiratory protection**

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Use only respiratory protection equipment with CE-symbol including four digit test number.

**Hand protection**

For prolonged or repeated handling the following glove material must be used: Butyl caoutchouc (butyl rubber)  
Thickness of the glove material > 0,4 mm ; Breakthrough time: > 480 min.

Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles EN ISO 374

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

**Eye/face protection**

Wear closely fitting protective glasses in case of splashes.

**Body protection**

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

**Protective measures**

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

**Environmental exposure controls**

Do not allow to enter into surface water or drains. See section 7. No additional measures necessary.

**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

<b>Physical state:</b>	<b>Liquid</b>
<b>Colour:</b>	<b>Colour</b>
<b>Odour:</b>	<b>characteristic</b>
<b>Odour threshold:</b>	<b>not applicable</b>
<b>Melting point/freezing point:</b>	<b>not applicable</b>
<b>Initial boiling point and boiling range:</b>	<b>200 °C</b> Source: Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics
<b>Flammability:</b>	Combustible liquid.
<b>Lower and upper explosion limit:</b>	
<b>Lower explosion limit:</b>	<b>0,6 Vol-%</b>
<b>Upper explosion limit:</b>	<b>6 Vol-%</b> Source: Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics

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<b>Flash point:</b>	<b>63 °C</b> Method: DIN 53213-1
<b>Auto-ignition temperature:</b>	<b>&gt; 200 °C</b> Source: Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics
<b>Decomposition temperature:</b>	<b>not applicable</b>
<b>pH at 20 °C:</b>	<b>not applicable</b>
<b>Kinematic viscosity (40°C):</b>	<b>&lt; 700 mm<sup>2</sup>/s</b>
<b>Viscosity at 20 °C:</b>	<b>95 s 4 mm</b> Method: DIN 53211
<b>Solubility(ies):</b>	
<b>Water solubility at 20 °C:</b>	<b>insoluble</b>
<b>Partition coefficient: n-octanol/water:</b>	<b>see section 12</b>
<b>Vapour pressure at 20 °C:</b>	<b>15,005 mbar</b> Method: calculated.
<b>Density and/or relative density:</b>	
<b>Density at 20 °C:</b>	<b>1,25 g/cm<sup>3</sup></b>
<b>Relative vapour density:</b>	<b>not applicable</b>
<b>particle characteristics:</b>	<b>not applicable</b>
9.2. <b>Other information</b>	
<b>Solid content:</b>	<b>79 weight-%</b>
<b>solvent content:</b>	
<b>Organic solvents:</b>	<b>21 weight-%</b>
<b>Water:</b>	<b>0 weight-%</b>

## SECTION 10: Stability and reactivity

- 10.1. **Reactivity**  
No information available.
- 10.2. **Chemical stability**  
Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.
- 10.3. **Possibility of hazardous reactions**  
Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.
- 10.4. **Conditions to avoid**  
Hazardous decomposition byproducts may form with exposure to high temperatures.
- 10.5. **Incompatible materials**  
not applicable
- 10.6. **Hazardous decomposition products**  
Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics  
oral, LD50, Rat: > 6000 mg/kg  
dermal, LD50, Rabbit: > 5000 mg/kg  
inhalative (Gases), LC50, Rat: 15000 ppmV (4 h)  
inhalative (vapours), LC50, Rat: > 5 mg/L (4 h)

Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics  
oral, LD50, Rat: > 5000 mg/kg

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dermal, LD50, Rabbit: > 5000 mg/kg

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

oral, LD50, Rat: > 5000 mg/kg

dermal, LD50, Rabbit: > 5000 mg/kg

Hydrocarbon C14 - C18, n - alkanes, isoalkanes, cyclic compounds < 2 % aromatics

oral, LD50, Rat: > 5000 mg/kg

dermal, LD50, Rat: > 2000 mg/kg

Zinc neodecanoate

oral, LD50, Rat: > 5000 mg/kg

Method: OECD 401

dermal, LD50, Rat: > 3640 mg/kg

Method: OECD 402

### Skin corrosion/irritation; Serious eye damage/eye irritation

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Skin, Rabbit. (4 h)

Method: OECD 404

non-irritant.

eyes, Rabbit.: Evaluation non-irritant.

Method: OECD 405

Zinc neodecanoate

Skin, Rabbit. (4 h)

Method: OECD 404

non-irritant.

### Respiratory or skin sensitisation

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Skin, Guinea pig: ; Evaluation not sensitising.

Method: OECD 406

### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Based on available data, the classification criteria are not met.

### STOT-single exposure; STOT-repeated exposure

Based on available data, the classification criteria are not met.

### Aspiration hazard

Based on available data, the classification criteria are not met.

### Practical experience/human evidence

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatigue, amyosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

### Overall assessment on CMR properties

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

## 11.2. Information on other hazards

### Endocrine disrupting properties

No information available.

## SECTION 12: Ecological information

Classification according to Regulation (EC) No 1272/2008 [CLP]

Do not allow to enter into surface water or drains.

## 12.1. Toxicity

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Fish toxicity, LC50, Pimephales promelas (fathead minnow): > 1000 mg/L (96 h)

Daphnia toxicity, EC50, Daphnia magna: > 1000 mg/L (48 h)

Algae toxicity, ErC50: > 1000 mg/L (72 h)

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Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics  
Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): > 1000 mg/L (96 h)  
Algae toxicity, ErC50, Pseudokirchneriella subcapitata: > 1000 mg/L (72 h)

**Long-term Ecotoxicity**

Zinc neodecanoate  
Fish toxicity, NOEC: 0,199 mg/L (30 day(s))

**12.2. Persistence and degradability**

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics  
: 80 Degradation rate (28 day(s)); Evaluation Readily biodegradable (according to OECD criteria).

Zinc neodecanoate  
: 11 Degradation rate (28 day(s))

**12.3. Bioaccumulative potential**

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics  
Partition coefficient: n-octanol/water: 5 - 6,7

**Bioconcentration factor (BCF)**

Zinc neodecanoate  
Bioconcentration factor (BCF): < 225

**12.4. Mobility in soil**

Toxicological data are not available.

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

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

**12.6. Endocrine disrupting properties**

No information available.

**12.7. Other adverse effects**

No information available.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Appropriate disposal / Product Recommendation**

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Dispose of waste according to applicable legislation.

**List of proposed waste codes/waste designations in accordance with EWC**

080112 waste paint and varnish other than those mentioned in 08 01 11

**Appropriate disposal / Package Recommendation**

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

**SECTION 14: Transport information**

**No dangerous good in sense of this transport regulation.**

**14.1. UN number or ID number**

not applicable

**14.2. UN proper shipping name**

**14.3. Transport hazard class(es)**

not applicable

**14.4. Packing group**

not applicable

**14.5. Environmental hazards**

Land transport (ADR/RID)

not applicable

Marine pollutant

not applicable

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**14.6. Special precautions for user**

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.

Advices on safe handling: see parts 6 - 8

**Further information**

**Land transport (ADR/RID)**

Tunnel restriction code -

**Sea transport (IMDG)**

EmS-No. not applicable

**14.7. Maritime transport in bulk according to IMO instruments**

No transport as bulk according IBC - Code.

**SECTION 15: Regulatory information**

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

**EU legislation**

**Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive]**

VOC-value (in g/L): 198

**Directive 2004/42/EC on the limitation of emissions of volatile organic compounds**

VOC product category: (Cat. A/e) ; VOC limit value: 400 g/l

Maximum VOC content of the product in a ready to use condition (in g/L): 198

**National regulations**

**Restrictions of occupation**

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

**15.2. Chemical Safety Assessment**

**For the following substances of this mixture a chemical safety assessment has been carried out:**

EC No. CAS No.	Designation	REACH No.
265-150-3 64742-48-9	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	01-2119457273-39
919-857-5 64742-48-9	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	01-2119463258-33
927-632-8 64742-47-8	Hydrocarbon C14 - C18, n-alkanes, isoalkanes, cyclic compounds < 2% aromatics	01-2119457736-27
920-107-4 64742-47-8	Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics	01-2119453414-42
282-780-4 84418-68-8	Zinc neodecanoate	01-2119978981-18

**SECTION 16: Other information**

**Full text of classification in section 3**

Asp. Tox. 1 / H304	Aspiration hazard	May be fatal if swallowed and enters airways.
Flam. Liq. 3 / H226	Flammable liquids	Flammable liquid and vapour.
STOT SE 3 / H336	STOT-single exposure	May cause drowsiness or dizziness.
Aquatic Acute 1 / H400	Hazardous to the aquatic environment	Very toxic to aquatic organisms.
Aquatic Chronic 2 / H411	Hazardous to the aquatic environment	Toxic to aquatic life with long lasting effects.

**Abbreviations and acronyms**

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
OEL	Occupational Exposure Limit Value
BLV	Biological Limit Value
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	Carcinogenic, Mutagenic and Reprotoxic
DIN	German Institute for Standardization / German industrial standard
DNEL	Derived No-Effect Level

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EAKV	European Waste Catalogue Directive
EC	Effective Concentration
EC	European Community
EN	European Standard
IATA-DGR	International Air Transport Association – Dangerous Goods Regulations
IBC Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO-TI	International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG Code	International Maritime Code for Dangerous Goods
ISO	International Organization for Standardization
LC	Lethal Concentration
LD	Lethal Dose
MAK	Maximum workplace concentration
MARPOL	Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OECD	Organisation for Economic Cooperation and Development
PBT	persistent, bioaccumulative, toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
UN	United Nations
VOC	Volatile Organic Compounds
vPvB	very persistent and very bioaccumulative

**Further information**

Classification according to Regulation (EC) No 1272/2008 [CLP]

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in section 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.