

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



Article No.:	28-811	ISO-HDF PRO Holzdeckenfarbe	
Print date:	11.01.2023	Revision date: 27.09.2022	EN
Version:	1.8	Issue date: 07.09.2022	Page 1 / 10

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

**1.1. Product identifier**

Article No. (manufacturer/supplier):	28-811
Trade name/designation	ISO-HDF PRO Holzdeckenfarbe weiß matt UFI: U8RG-3JAX-DG0N-79KD

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

**Relevant identified uses**

Varnish / paint

**Uses advised against**

Aware of any other information

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

**Supplier (manufacturer/importer/only representative/downstream user/distributor)**

P.A. Jansen GmbH u. Co., KG	
Hochstadenstraße 22	Telephone: +49 2641 3897-0
D-53474 Bad Neuenahr-Ahrweiler	Telefax: +49 2641 3897-28
	Homepage: www.jansen.de

**Department responsible for information:**

laboratory	
E-mail (competent person)	sicherheitsdatenblatt@jansen.de

**1.4. Emergency telephone number**

Emergency telephone number	+49 2641 3897-51
Only available during office hours.	

**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 hazardous according to regulation (EC) No 1272/2008 [CLP].

Skin Sens. 1 / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.
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**2.2. Label elements**

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

**Hazard pictograms**



**Warning**

**Hazard statements**

H317	May cause an allergic skin reaction.
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**Precautionary statements**

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P280	Wear protective gloves and eye/face protection.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

**Hazard components for labelling**

2-Methylisothiazol-3(2H)-one

**Supplemental hazard information**

EUH211	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
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**2.3. Other hazards**

No information available.

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

**3.2. Mixtures**

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**Description** Water-thinnable lacquer on special acrylate dispersion base

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

EC No. CAS No. Index No.	REACH No. Designation classification: // Remark	weight-%
236-675-5 13463-67-7 022-006-00-2	01-2119489379-17 titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] Carc. 2 H351	20 - 25
201-074-9 77-99-6	01-2119486799-10 Propylidynetrimethanol Repr. 2 H361fd	0,1 - 0,15
220-239-6 2682-20-4 613-326-00-9	01-2120764690-50 2-Methylisothiazol-3(2H)-one Acute Tox. 3 H301 / Acute Tox. 3 H311 / Acute Tox. 2 H330 / Skin Corr. 1B H314 / Eye Dam. 1 H318 / Skin Sens. 1A H317 / Aquatic Acute 1 H400 (M = 10) / Aquatic Chronic 1 H410 (M = 1) / EUH071 Specific concentration limit (SCL): Skin Sens. 1A H317 >= 0,0015 / Acute Tox. 4 H332 >= 3 / Skin Irrit. 2 H315 >= 5 / Eye Irrit. 2 H319 >= 5 / Skin Corr. 1B H314 >= 10 / Acute Tox. 3 H331 >= 25 / Acute Tox. 4 H302 >= 25 / Aquatic Acute 1 H400 >= 25	< 0,025

**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**

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Provide a conveniently located respiratory protective device.

## 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 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 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

No special measures are required.

### 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.

#### 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 8 °C and 30 °C. Protect from heat and direct sunlight.

### 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

titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter  $\leq 10 \mu\text{m}$ ]

Index No. 022-006-00-2 / EC No. 236-675-5 / CAS No. 13463-67-7

WEL, TWA: 4 mg/m<sup>3</sup>

Remark: (respirable fraction)

WEL, TWA: 10 mg/m<sup>3</sup>

Remark: (inhalable fraction)

Silicon dioxide

EC No. 231-545-4 / CAS No. 7631-86-9

WEL, TWA: 6 mg/m<sup>3</sup>

Remark: (Silica, amorphous; inhalable fraction)

WEL, TWA: 2,4 mg/m<sup>3</sup>

Remark: (Silica, amorphous; respirable fraction)

#### Additional information

TWA : Long-term occupational exposure limit value

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STEL : short-term occupational exposure limit value  
Ceiling : peak limitation

**DNEL:**

Silicon dioxide

EC No. 231-545-4 / CAS No. 7631-86-9

DNEL acute inhalative (local), Workers: 4 mg/m<sup>3</sup>

DNEL long-term inhalative (systemic), Workers: 4 mg/m<sup>3</sup>

titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]

Index No. 022-006-00-2 / EC No. 236-675-5 / CAS No. 13463-67-7

DNEL long-term inhalative (local), Workers: 10 mg/m<sup>3</sup>

DNEL long-term oral (repeated), Consumer: 700 mg/kg

Propylidynetrimethanol

EC No. 201-074-9 / CAS No. 77-99-6

DNEL long-term dermal (systemic), Workers: 0,94 mg/kg

DNEL long-term inhalative (systemic), Workers: 3,3 mg/m<sup>3</sup>

DNEL long-term oral (repeated), Consumer: 0,34 mg/kg

DNEL long-term dermal (systemic), Consumer: 0,34 mg/kg

DNEL long-term inhalative (systemic), Consumer: 0,58 mg/m<sup>3</sup>

**PNEC:**

titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]

Index No. 022-006-00-2 / EC No. 236-675-5 / CAS No. 13463-67-7

PNEC aquatic, freshwater: 0,184 mg/L

PNEC aquatic, marine water: 0,0184 mg/L

PNEC aquatic, intermittent release: 0,193 mg/L

PNEC sediment, freshwater: 1000 mg/kg

PNEC sediment, marine water: 100 mg/kg

PNEC, soil: 100 mg/kg

PNEC sewage treatment plant (STP): 100 mg/L

**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. Observe the wear time limits as specified by the manufacturer. Recommended respiratory protection articles: Inadequately ventilated workplaces and spraying procedures are necessary. Fresh air mask or short-time work combination filter A2-P2 are recommended.

**Hand protection**

For prolonged or repeated handling the following glove material must be used: NBR (Nitrile 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.

**Eye/face protection**

Wear closely fitting protective glasses in case of splashes.

**Body protection**

No special measures are necessary.

**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**

**Physical state:**

**Liquid**

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<b>Colour:</b>	<b>white</b>
<b>Odour:</b>	<b>characteristic</b>
<b>Odour threshold:</b>	<b>No data available</b>
<b>Melting point/freezing point:</b>	<b>No data available</b>
<b>Initial boiling point and boiling range:</b>	<b>82 °C</b> Source: propan-2-ol
<b>Flammability:</b>	<b>No data available</b>
<b>Lower and upper explosion limit:</b>	
<b>Lower explosion limit:</b>	<b>0,8 Vol-%</b> Method: literature value
<b>Upper explosion limit:</b>	<b>No data available</b>
<b>Flash point:</b>	<b>No data available</b>
<b>Auto-ignition temperature:</b>	<b>No data available</b>
<b>Decomposition temperature:</b>	<b>No data available</b>
<b>pH at 20 °C:</b>	<b>4 - 5 / 100,0 weight-%</b>
<b>Viscosity at °C:</b>	<b>40-45 dPas</b>
<b>Solubility(ies):</b>	
<b>Water solubility at 20 °C:</b>	<b>partially soluble</b>
<b>Partition coefficient: n-octanol/water:</b>	<b>see section 12</b>
<b>Vapour pressure at 20 °C:</b>	<b>No data available</b>
<b>Density and/or relative density:</b>	
<b>Density at 20 °C:</b>	<b>1,27 g/cm³</b> Method: DIN 53217
<b>Relative vapour density:</b>	<b>No data available</b>
<b>particle characteristics:</b>	<b>not applicable</b>
9.2. <b>Other information</b>	
<b>Solid content:</b>	<b>53 weight-%</b>
<b>solvent content:</b>	
<b>Organic solvents:</b>	<b>1 weight-%</b>
<b>Water:</b>	<b>46 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

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7. 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**

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Silicon dioxide

oral, LD50, Rat: > 5000 mg/kg

dermal, LD50, Rabbit: > 5000 mg/kg

inhalative (dust and mist), LC50, Rat: > 0,477 mg/L (4 h)

titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]

oral, LD50, Rat: > 5000 mg/kg

Method: OECD 425

dermal, LD50, Rabbit: > 2000 mg/kg

inhalative (dust and mist), LC50, Rat: 3,43 - 5,09 mg/L (4 h)

Method: OECD 403

Propylidynetrimethanol

oral, LD50, Rat: 14700 mg/kg

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

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

**Respiratory or skin sensitisation**

May cause an allergic skin reaction.

**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]

There is no information available on the preparation itself .

Do not allow to enter into surface water or drains.

### 12.1. Toxicity

2-Methylisothiazol-3(2H)-one

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 6 mg/L (96 h)

Daphnia toxicity, EC50, Daphnia pulex (water flea): 1,6 mg/L (48 h)

Algae toxicity, ErC50, Pseudokirchneriella subcapitata: 0,157 mg/L (72 h)

Bacteria toxicity, EC50, Activated sludge: 34,6 mg/L (3 h)

Silicon dioxide

Fish toxicity, LC50, Danio rerio (zebrafish): > 10000 mg/L (96 h)

Method: OECD 203

Daphnia toxicity, EC50, Daphnia magna: > 10000 mg/L (24 h)

Method: OECD 202

titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): > 100 mg/L (96 h)

Daphnia toxicity, LC50, Daphnia magna: > 100 mg/L (48 h)

Algae toxicity, EC50, Pseudokirchneriella subcapitata: 16 mg/L (72 h)

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Propylidynetrimethanol  
Fish toxicity, LC50: > 1000 mg/L (96 h)  
Method: OECD 203  
Daphnia toxicity, EC50, Daphnia magna (Big water flea): 13000 mg/L (48 h)  
Algae toxicity, ErC50, Selenastrum capricornutum: > 1000 mg/L  
Method: OECD 201  
Bacteria toxicity, EC50 (3 h)

#### **Long-term Ecotoxicity**

Propylidynetrimethanol  
Daphnia toxicity, NOEC, Daphnia magna (Big water flea): > 1000 mg/L (21 d)

#### **12.2. Persistence and degradability**

Propylidynetrimethanol  
Biodegradation: 100 % (28 d)  
Method: OECD 302B  
Readily biodegradable (according to OECD criteria)

#### **12.3. Bioaccumulative potential**

2-Methylisothiazol-3(2H)-one  
Partition coefficient: n-octanol/water: ≤ 0,32  
Method: OECD 117

Propylidynetrimethanol  
Partition coefficient n-octanol /water (log P O/W):: -0,47

#### **Bioconcentration factor (BCF)**

2-Methylisothiazol-3(2H)-one  
Bioconcentration factor (BCF): 3,16  
titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]  
Bioconcentration factor (BCF), Oncorhynchus mykiss (Rainbow trout): 19 - 352  
Propylidynetrimethanol  
Bioconcentration factor (BCF), Cyprinus carpio (Common Carp): < 17

#### **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**

080111\* Waste paint and varnish containing organic solvents or other dangerous substances

\*Hazardous waste according to Directive 2008/98/EC (waste framework directive).

##### **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**



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No data available

**14.2. UN proper shipping name**

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

No data available

**14.4. Packing group**

No data available

**14.5. Environmental hazards**

Land transport (ADR/RID)

No data available

Marine pollutant

No data available

**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.

No data available

**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**

**Regulation (EU) No. 528/2012 on biocides**

Treated goods

The mixture contains biocidal active ingredients.

bronopol (INN)

2-octyl-2H-isothiazole-3-one

reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC

no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no.

220-239-6] (3:1)

2-Methylisothiazol-3(2H)-one

1,2-Benzisothiazol-3(2H)-one

**Use**

Main group 2: Preservatives

Product-type 6: Preservatives for products during storage

**Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]**

This product is not classified according to Directive 2012/18/EU.

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

VOC product category: (Cat. A/d) ; VOC limit value: 130 g/l

Maximum VOC content of the product in a ready to use condition (in g/L): 130

**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.
236-675-5	titanium dioxide [in powder form containing 1 % or more of particles	01-2119489379-17
13463-67-7	with aerodynamic diameter $\leq 10 \mu\text{m}$ ]	



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201-074-9 77-99-6	Propylidynetrimethanol	01-2119486799-10
220-239-6 2682-20-4	2-Methylisothiazol-3(2H)-one	01-2120764690-50

**SECTION 16: Other information**

**Full text of classification in section 3:**

Carc. 2 / H351	Carcinogenicity	Suspected of causing cancer if inhaled.
Repr. 2 / H361fd	Reproductive toxicity	Suspected of damaging fertility. Suspected of damaging the unborn child.
Acute Tox. 3 / H301	Acute toxicity (oral)	Toxic if swallowed.
Acute Tox. 3 / H311		Toxic in contact with skin.
Acute Tox. 2 / H330	Acute toxicity (inhalative)	Fatal if inhaled.
Skin Corr. 1B / H314	Skin corrosion/irritation	Causes severe skin burns and eye damage.
Eye Dam. 1 / H318	Serious eye damage/eye irritation	Causes serious eye damage.
Skin Sens. 1A / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.
Aquatic Acute 1 / H400	Hazardous to the aquatic environment	Very toxic to aquatic organisms.
Aquatic Chronic 1 / H410	Hazardous to the aquatic environment	Very toxic to aquatic life with long lasting effects.

**Classification procedure**

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Skin Sens. 1      Respiratory or skin sensitisation      Calculation method.

**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
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
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

**Data sources**

Data arise from reference works and literature.

**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

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



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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.