

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

JANSEN 

Article No.: 18-1 Kupferlack
Print date 29.07.2024 Revision date 08.01.2024 EN
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Article No. (manufacturer/supplier): 18-1
Trade name/designation Kupferlack
kupfer
metallisch seidenglänzend
UFI: 36MK-FJE6-QG0A-HY97

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].

Flam. Liq. 3 / H226	Flammable liquids	Flammable liquid and vapour.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
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.

2.2. Label elements

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

Hazard pictograms



Warning

Hazard statements

H226 Flammable liquid and vapour.
H319 Causes serious eye irritation.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P264 Wash hands thoroughly after handling.
P280 Wear protective gloves and eye/face protection.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P370 + P378.6 In case of fire: Use carbon dioxide, extinguishing powder or alcohol-resistant foam to extinguish.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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Hazard components for labelling

No data available

Supplemental hazard information

EUH066 Repeated exposure may cause skin dryness or cracking.
EUH208 Contains phthalic anhydride; Fatty acids, C18, unsatd., dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine. May produce an allergic reaction.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Description Alkyd paint with metallic copper pigment

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

EC No. CAS No. Index No.	REACH No. Designation classification: // Remark	weight-%
918-481-9	01-2119457273-39 Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2 % aromatics Asp. Tox. 1 H304 / EUH066	35 - 50
231-159-6 7440-50-8	01-2119480154-42 Copper Acute Tox. 4 H302 / Acute Tox. 3 H331 / Eye Irrit. 2 H319 / Aquatic Acute 1 H400 (M = 10) / Aquatic Chronic 1 H410 (M = 1) Acute toxicity estimate (ATE): ATE (inhalation, vapour): 0,70 mg/L	12,5 - 15
201-607-5 85-44-9 607-009-00-4	01-2119457017-41 phthalic anhydride Acute Tox. 4 H302 / STOT SE 3 H335 / Skin Irrit. 2 H315 / Eye Dam. 1 H318 / Resp. Sens. 1 H334 / Skin Sens. 1 H317 Acute toxicity estimate (ATE): ATE (oral): 1530 mg/kg bw	0,3 - 0,5
605-296-0 162627-17-0	01-2119970640-38 Fatty acids, C18, unsatd., dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine Skin Sens. 1A H317	0,05 - 0,1

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

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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. Do not allow water used to extinguish fire to enter drains, ground or waterways. Cool closed containers that are near the source of the fire.

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 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.

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 5 °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.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit values

Copper

EC No. 231-159-6 / CAS No. 7440-50-8

WEL, TWA: 0,2 mg/m³

Remark: (Smoke)

WEL, TWA: 1 mg/m³

WEL, STEL: 2 mg/m³

Remark: (Dusts and mist calculated as Cu)

WEL, TWA: 1 mg/m³

WEL, STEL: 2 mg/m³

Remark: (Dusts and mist calculated as Cu)

WEL, TWA: 1 mg/m³

WEL, STEL: 2 mg/m³

Remark: (Dusts and mist calculated as Cu)

phthalic anhydride

Index No. 607-009-00-4 / EC No. 201-607-5 / CAS No. 85-44-9

WEL, TWA: 4 mg/m³

WEL, STEL: 12 mg/m³

Additional information

TWA : Long-term occupational exposure limit value

STEL : short-term occupational exposure limit value

Ceiling : peak limitation

DNEL:

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

EC No. 918-481-9

DNEL long-term dermal (systemic), Workers: 300 mg/kg

DNEL long-term oral (repeated), Consumer: 300 mg/kg

DNEL long-term dermal (systemic), Consumer: 300 mg/kg

DNEL long-term inhalative (systemic), Consumer: 900 mg/m³

PNEC:

Copper

EC No. 231-159-6 / CAS No. 7440-50-8

PNEC aquatic, freshwater: 0,0078 mg/L

PNEC aquatic, marine water: 0,0052 mg/L

PNEC sediment, freshwater: 87 mg/kg

PNEC sediment, marine water: 676 mg/kg

PNEC, soil: 65,5 mg/kg

PNEC sewage treatment plant (STP): 0,23 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. Recommended

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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

Physical state:	Liquid
Colour:	refer to label
Odour:	characteristic
Odour threshold:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	80 °C Source: Benzene
Flammability:	Flammable liquid and vapour.
Lower and upper explosion limit:	
Lower explosion limit:	0,6 Vol-% Method: literature value Source: Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2 % aromatics
Upper explosion limit:	7 Vol-% Method: literature value Source: Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2 % aromatics
Flash point:	58 °C Method: EN ISO 1523
Auto-ignition temperature:	231 °C Source: Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2 % aromatics
Decomposition temperature:	No data available
pH at 20 °C:	No data available
Cinematic viscosity (40°C):	> 20,5 mm²/s
Viscosity at 23 °C:	200 s 4 mm Method: DIN 53211
Solubility(ies):	
Water solubility at 20 °C:	insoluble
Partition coefficient: n-octanol/water:	see section 12
Vapour pressure at 20 °C:	0,6 mbar Source: Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2 % aromatics
Density and/or relative density:	
Density at 20 °C:	1,04 g/cm³ Method: DIN 53217
Relative vapour density:	No data available

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particle characteristics:	not applicable
9.2. Other information	
Solid content:	59 weight-%
solvent content:	
Organic solvents:	41 weight-%
Water:	0 weight-%

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

phthalic anhydride

oral, LD50, Rat: > 1530 mg/kg

Fatty acids, C18, unsatd., dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine

oral, LD50, Rat: > 10000 mg/kg

Method: OECD 401

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

oral, LD50, Rat: > 5000 mg/kg

Method: OECD 401

dermal, LD50, Rabbit: > 5000 mg/kg

Method: OECD 402

inhalative (vapours), LC50, Rat: > 4951 mg/L (4 h)

Method: OECD 403

Copper

oral, LD50, Rat 300 - 500 mg/kg

Method: OECD 423

dermal, LD50, Rat: > 2000 mg/kg

Method: OECD 402

inhalative (dust and mist), LC50, Rat: 0,7 mg/L (4 h)

Method: OECD 403

Skin corrosion/irritation; Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

Fatty acids, C18, unsatd., dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine

Skin, Mouse:

Method: OECD 429

May cause sensitization by skin contact.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

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

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STOT-single exposure; STOT-repeated exposure

phthalic anhydride
Specific target organ toxicity (single exposure), Irritation
Irritation to respiratory tract

Aspiration hazard

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

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.

Remark

There is no information available on the preparation itself .

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

Very toxic to aquatic organisms.

Fatty acids, C18, unsatd., dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine

Fish toxicity, LC50, *Leuciscus idus* (golden orfe): > 150 mg/L (96 h)

Daphnia toxicity, EC50, *Daphnia magna* (Big water flea): > 100 mg/L (48 h)

Method: OECD 202

Algae toxicity, ErC50, *Pseudokirchneriella subcapitata*: > 100 mg/L (72 h)

Method: OECD 201

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

Fish toxicity, LC50, *Oncorhynchus mykiss* (Rainbow trout): > 1000 mg/L (96 h)

Method: OECD 203

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

Method: OECD 202

Algae toxicity, EC50, *Pseudokirchneriella subcapitata*: > 1000 mg/L

Method: OECD 201

Long-term Ecotoxicity

Toxic to aquatic life with long lasting effects.

Fatty acids, C18, unsatd., dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine

Daphnia toxicity, EC50, *Daphnia magna* (Big water flea): > 100 mg/L (21 d)

Method: OECD 211

12.2. Persistence and degradability

Fatty acids, C18, unsatd., dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine

Biodegradation:

Not readily biodegradable (according to OECD criteria)

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

Biodegradation: 80 % (28 d); Evaluation Readily biodegradable (according to OECD criteria)

Method: OECD 301F

12.3. Bioaccumulative potential

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phthalic anhydride
Partition coefficient n-octanol /water (log P O/W):: 1,6

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

14.1. UN number or ID number

UN 1263

14.2. UN proper shipping name

Land transport (ADR/RID): Paint
Sea transport (IMDG): PAINT
Air transport (ICAO-TI / IATA-DGR): Paint

14.3. Transport hazard class(es)

3

14.4. Packing group

III

14.5. Environmental hazards

Land transport (ADR/RID) UMWELTGEFÄHRDEND
Marine pollutant p

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 D/E
in packages <= 5 litres Not goods of class 3

Sea transport (IMDG)

EmS-No. F-E, S-E
in packages <= 5 litres Transport in accordance with 2.3.2.5 of the IMDG Code.

14.7. Maritime transport in bulk according to IMO instruments

No transport as bulk according IBC - Code.

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SECTION 15: Regulatory information

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

EU legislation

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

Category: P5c FLAMMABLE LIQUIDS

Quantity 1: 5000 t / Quantity 2: 50000 t

Category: E1 Hazardous to the aquatic environment in Category Acute 1 or Chronic 1

Quantity 1: 100 t / Quantity 2: 200 t

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

VOC product category: (Cat. A/i) ; VOC limit value: 500 g/l

Maximum VOC content of the product in a ready to use condition (in g/L): 500

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:

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918-481-9	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2 % aromatics	01-2119457273-39
231-159-6 7440-50-8	Copper	01-2119480154-42
201-607-5 85-44-9	phthalic anhydride	01-2119457017-41
605-296-0 162627-17-0	Fatty acids, C18, unsatd., dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine	01-2119970640-38

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.
Acute Tox. 4 / H302	Acute toxicity (oral)	Harmful if swallowed.
Acute Tox. 3 / H331	Acute toxicity (inhalative)	Toxic if inhaled.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
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.
STOT SE 3 / H335	STOT-single exposure	May cause respiratory irritation.
Skin Irrit. 2 / H315	Skin corrosion/irritation	Causes skin irritation.
Eye Dam. 1 / H318	Serious eye damage/eye irritation	Causes serious eye damage.
Resp. Sens. 1 / H334	Respiratory or skin sensitisation	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Sens. 1 / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.
Skin Sens. 1A / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.

Classification procedure

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

Flam. Liq. 3	Flammable liquids	On basis of test data.
Eye Irrit. 2	Serious eye damage/eye irritation	Calculation method.
Aquatic Acute 1	Hazardous to the aquatic environment	Calculation method.
Aquatic Chronic 2	Hazardous to the aquatic environment	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

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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 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.