

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2015/830

JANSEN

Article No.: 40-700
Print date 19.03.2021
Version 18.68

DB-Dickschutz
Revision date 09.10.2020
Issue date 22.08.2020

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

1.1. Product identifier

Article No. (manufacturer/supplier): 40-700
Trade name/designation DB-Dickschutz
700 altkupfer
seidenmatt

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.
STOT SE 3 / H336	STOT-single exposure	May cause drowsiness or dizziness.
Aquatic Chronic 3 / H412	Hazardous to the aquatic environment	Harmful to aquatic life with long lasting effects.

2.2. Label elements

The product is classified and labelled according to EC directives or corresponding national laws.

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

Hazard pictograms



Warning

Hazard statements

H226 Flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H412 Harmful 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.
P271 Use only outdoors or in a well-ventilated area.
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.

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P370 + P378 In case of fire: Use extinguishing powder or sand to extinguish.
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P501 Dispose of contents/container to industrial incineration plant.

Hazard components for labelling

Hydrocarbons, C9, aromatics

Supplemental hazard information

No data available

2.3. Other hazards

No information available.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Description Acrylate copolymer paint

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

EC No. CAS No. Index No.	REACH No. Designation classification: // Remark	weight-%
918-668-5	01-2119455851-35 Hydrocarbons, C9, aromatics Flam. Liq. 3 H226 / STOT SE 3 H335 / Aquatic Chronic 2 H411 / Asp. Tox. 1 H304 / STOT SE 3 H336	12,5 - 15
216-372-4 1569-01-3	01-2119474443-37 1-propoxy-2-propanol Flam. Liq. 3 H226 / Eye Irrit. 2 H319	5 - 7
203-603-9 108-65-6 607-195-00-7	01-2119475791-29 2-methoxy-1-methylethyl acetate STOT SE 3 H336 / Flam. Liq. 3 H226	3 - 5
215-535-7 1330-20-7 601-022-00-9	01-2119488216-32 Xylene Acute Tox. 4 H312 / Acute Tox. 4 H332 / Skin Irrit. 2 H315 / Eye Irrit. 2 H319 / STOT SE 3 H335 / STOT RE 2 H373 / Asp. Tox. 1 H304 / Flam. Liq. 3 H226	3 - 5
203-539-1 107-98-2 603-064-00-3	01-2119457435-35 1-methoxy-2-propanol Flam. Liq. 3 H226 / STOT SE 3 H336	3 - 5
204-626-7 123-42-2 603-016-00-1	01-2119473975-21 4-hydroxy-4-methylpentan-2-one Eye Irrit. 2 H319 / Repr. 2 H361 / STOT SE 3 H335 / Flam. Liq. 3 H226 Specific concentration limit (SCL): Eye Irrit. 2 H319 >= 10	2 - 2,5
202-849-4 100-41-4 601-023-00-4	01-2119489370-35 Ethylbenzene Acute Tox. 4 H332 / STOT RE 2 H373 / Asp. Tox. 1 H304 / Aquatic Chronic 3 H412 / Flam. Liq. 2 H225	1 - 1,5
919-446-0	01-2119458049-33 Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclic, aromatics (2-25 %) Flam. Liq. 3 H226 / Asp. Tox. 1 H304 / Aquatic Chronic 2 H411	1 - 1,5

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.

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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. 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

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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.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit values

Titanium dioxide

EC No. 236-675-5 / CAS No. 13463-67-7

WEL, TWA: 4 mg/m³

Remark: (respirable fraction)

WEL, TWA: 10 mg/m³

Remark: (inhalable fraction)

2-methoxy-1-methylethyl acetate

Index No. 607-195-00-7 / EC No. 203-603-9 / CAS No. 108-65-6

WEL, TWA: 274 mg/m³; 50 ppm

WEL, STEL: 548 mg/m³; 100 ppm

Remark: (may be absorbed through the skin)

Xylene

Index No. 601-022-00-9 / EC No. 215-535-7 / CAS No. 1330-20-7

WEL, TWA: 220 mg/m³; 50 ppm

WEL, STEL: 441 mg/m³; 100 ppm

Remark: (may be absorbed through the skin)

BMGV, TWA: 650 mmol/mol creatinine

Remark: methyl hippuric acid; urine; end of exposure or end of shift

1-methoxy-2-propanol

Index No. 603-064-00-3 / EC No. 203-539-1 / CAS No. 107-98-2

WEL, TWA: 375 mg/m³; 100 ppm

WEL, STEL: 560 mg/m³; 150 ppm

Remark: (may be absorbed through the skin)

4-hydroxy-4-methylpentan-2-one

Index No. 603-016-00-1 / EC No. 204-626-7 / CAS No. 123-42-2

WEL, TWA: 241 mg/m³; 50 ppm

WEL, STEL: 362 mg/m³; 75 ppm

Ethylbenzene

Index No. 601-023-00-4 / EC No. 202-849-4 / CAS No. 100-41-4

WEL, TWA: 441 mg/m³; 100 ppm

WEL, STEL: 552 mg/m³; 125 ppm

Remark: (may be absorbed through the skin)

Additional information

TWA : Long-term occupational exposure limit value

STEL : short-term occupational exposure limit value

Ceiling : peak limitation

DNEL:

Ethylbenzene

Index No. 601-023-00-4 / EC No. 202-849-4 / CAS No. 100-41-4

DNEL long-term dermal (systemic), Workers: 108 mg/kg

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DNEL acute inhalative (local), Workers: 174 mg/m³
DNEL acute inhalative (systemic), Workers: 174 mg/m³
DNEL long-term inhalative (systemic), Workers: 14,8 mg/m³
DNEL long-term oral (repeated), Consumer: 1,6 mg/kg

1-methoxy-2-propanol

Index No. 603-064-00-3 / EC No. 203-539-1 / CAS No. 107-98-2

DNEL long-term dermal (systemic), Workers: 50,6 mg/kg
DNEL acute inhalative (local), Workers: 553,5 mg/m³
DNEL long-term inhalative (systemic), Workers: 369 mg/m³
DNEL long-term oral (repeated), Consumer: 3,3 mg/kg
DNEL long-term dermal (systemic), Consumer: 18,1 mg/kg
DNEL long-term inhalative (systemic), Consumer: 43,9 mg/m³

2-methoxy-1-methylethyl acetate

Index No. 607-195-00-7 / EC No. 203-603-9 / CAS No. 108-65-6

DNEL acute dermal, short-term (systemic), Workers: 153,5 mg/kg
DNEL long-term dermal (systemic), Workers: 796 mg/kg
DNEL acute inhalative (local), Workers: 550 mg/m³
DNEL long-term inhalative (systemic), Workers: 275 mg/m³
DNEL long-term oral (repeated), Consumer: 36 mg/kg
DNEL long-term dermal (systemic), Consumer: 320 mg/kg
DNEL acute inhalative (systemic), Consumer: 33 mg/m³
DNEL long-term inhalative (systemic), Consumer: 33 mg/m³

Xylene

Index No. 601-022-00-9 / EC No. 215-535-7 / CAS No. 1330-20-7

DNEL long-term dermal (systemic), Workers: 180 mg/kg
DNEL acute inhalative (local), Workers: 289 mg/m³
DNEL acute inhalative (systemic), Workers: 289 mg/m³
DNEL long-term inhalative (systemic), Workers: 77 mg/m³
DNEL long-term oral (repeated), Consumer: 1,6 mg/kg
DNEL long-term dermal (systemic), Consumer: 108 mg/kg
DNEL acute inhalative (local), Consumer: 174 mg/m³
DNEL acute inhalative (systemic), Consumer: 174 mg/m³
DNEL long-term inhalative (systemic), Consumer: 14,8 mg/m³

Hydrocarbons, C9, aromatics

EC No. 918-668-5

DNEL long-term dermal (systemic), Workers: 25 mg/kg
DNEL long-term inhalative (systemic), Workers: 150 mg/m³
DNEL long-term oral (repeated), Consumer: 11 mg/kg
DNEL long-term dermal (systemic), Consumer: 11 mg/kg
DNEL long-term inhalative (systemic), Consumer: 32 mg/m³

Titanium dioxide

EC No. 236-675-5 / CAS No. 13463-67-7

DNEL long-term inhalative (local), Workers: 10 mg/m³
DNEL long-term oral (repeated), Consumer: 700 mg/kg

PNEC:

Ethylbenzene

Index No. 601-023-00-4 / EC No. 202-849-4 / CAS No. 100-41-4

PNEC aquatic, freshwater: 0,1 mg/L
PNEC aquatic, marine water: 0,01 mg/L
PNEC aquatic, intermittent release: 0,1 mg/L
PNEC sediment, freshwater: 13,7 mg/kg
PNEC sediment, marine water: 1,37 mg/kg
PNEC, soil: 2,68 mg/kg
PNEC sewage treatment plant (STP): 9,6 mg/L
PNEC Secondary Poisoning: 20 mg/kg

1-methoxy-2-propanol

Index No. 603-064-00-3 / EC No. 203-539-1 / CAS No. 107-98-2

PNEC aquatic, freshwater: 10 mg/L
PNEC aquatic, marine water: 1 mg/L

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PNEC aquatic, intermittent release: 100 mg/L
PNEC sediment, freshwater: 41,6 mg/kg
PNEC sediment, marine water: 4,17 mg/kg
PNEC, soil: 2,47 mg/kg
PNEC sewage treatment plant (STP): 100 mg/L

2-methoxy-1-methylethyl acetate

Index No. 607-195-00-7 / EC No. 203-603-9 / CAS No. 108-65-6

PNEC aquatic, freshwater: 0,635 mg/L
PNEC aquatic, marine water: 0,0635 mg/L
PNEC aquatic, intermittent release: 6,35 mg/L
PNEC sediment, freshwater: 3,29 mg/kg
PNEC sediment, marine water: 0,329 mg/kg
PNEC, soil: 0,29 mg/kg
PNEC sewage treatment plant (STP): 100 mg/L

Xylene

Index No. 601-022-00-9 / EC No. 215-535-7 / CAS No. 1330-20-7

PNEC aquatic, freshwater: 0,327 mg/L
PNEC aquatic, marine water: 0,327 mg/L
PNEC aquatic, intermittent release: 0,327 mg/L
PNEC sediment, freshwater: 12,46 mg/kg
PNEC sediment, marine water: 12,46 mg/kg
PNEC, soil: 2,31 mg/kg
PNEC sewage treatment plant (STP): 6,58 mg/L

Titanium dioxide

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. 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.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties *

Appearance:

Physical state: Liquid
Appearance: Liquid
Colour: orange

Odour: characteristic

Odour threshold: No data available

pH at 20 °C: No data available

Melting point/freezing point: -96 °C

Source: 1-methoxy-2-propanol

Initial boiling point and boiling range: 119 °C

Source: 1-methoxy-2-propanol

Flash point: 30 °C

Method: EN ISO 1523

Evaporation rate: No data available

flammability

Burning time: No data available

Upper/lower flammability or explosive limits:

Lower explosion limit: 0,7 Vol-%

Method: literature value

Source: Hydrocarbons, C9, aromatics

Upper explosion limit: 7 Vol-%

Method: literature value

Source: Hydrocarbons, C9, aromatics

Vapour pressure at 20 °C: 14 mbar

Source: Xylene

Vapour density: No data available

Relative density:

Density at 20 °C: 1,02 g/cm³

Method: DIN 53217

Solubility(ies):

Water solubility at 20 °C: partially soluble

Partition coefficient: n-octanol/water: see section 12

Auto-ignition temperature: 400 °C

Source: Hydrocarbons, C9, aromatics

Decomposition temperature: No data available

Viscosity at °C: structure viscous

Kinematic viscosity at 20 °C:: > 20,5 mm²/s

Explosive properties: No data available

Oxidising properties: No data available

9.2. Other information

Solid content: 62 weight-%

solvent content:

Organic solvents: 36 weight-%

Water: 0 weight-%

Solvent separation test: < 3 weight-% (ADR/RID)

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

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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

Classification according to Regulation (EC) No 1272/2008 [CLP]
No data on preparation itself available.

11.1. Information on toxicological effects

Acute toxicity

Ethylbenzene

oral, LD50, Rat: 3500 mg/kg
dermal, LD50, Rabbit: 5000 mg/kg
inhalative (vapours), LC50, Rat: 17,2 mg/L (4 h)

1-methoxy-2-propanol

oral, LD50, Rat: 2000 - 5000 mg/kg
dermal, LD50, Rabbit: > 2000 mg/kg
inhalative (vapours), LC50, Rat: 27,596 mg/L (6 h)

2-methoxy-1-methylethyl acetate

oral, LD50, Rat: > 5000 mg/kg
dermal, LD50, Rabbit: > 5000 mg/kg
inhalative (vapours), LC50, Rat: 35,7 mg/L (4 h)
inhalative (dust and mist), LC50, Rat: (4 h)

Xylene

oral, LD50, Rat: 4300 mg/kg
dermal, LD50, Rabbit: 1170 mg/kg
inhalative (vapours), LC50, Rat: 10 - 20 mg/L (4 h)

Hydrocarbons, C9, aromatics

oral, LD50, Rat: 2000 - 5000 mg/kg
Method: OECD 401
dermal, LD50, Rabbit: > 2000 mg/kg
Method: OECD 402
inhalative (vapours), LC50, Rat: > 10,2 mg/L (4 h)

Titanium dioxide

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

Skin corrosion/irritation; Serious eye damage/eye irritation

Causes serious eye irritation.

1-methoxy-2-propanol

eyes, Rabbit
mild irritant.

Xylene

Skin
Irritant - skin irritation and eye damage
eyes

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mildly irritating

Respiratory or skin sensitisation

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

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

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

STOT-single exposure; STOT-repeated exposure

May cause drowsiness or dizziness.

1-methoxy-2-propanol

Specific target organ toxicity (single exposure), drowsiness

2-methoxy-1-methylethyl acetate

Specific target organ toxicity (single exposure), drowsiness

Xylene

Specific target organ toxicity (single exposure), Irritation

Irritation to respiratory tract

Hydrocarbons, C9, aromatics

Specific target organ toxicity (single exposure), Irritation

Irritation to respiratory tract

Specific target organ toxicity (single exposure), drowsiness

Narcotic effects

Aspiration hazard

Ethylbenzene

Aspiration hazard

Xylene

Aspiration hazard

Hydrocarbons, C9, 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 .

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

Ethylbenzene

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 4,2 mg/L (96 h)

Daphnia toxicity, EC50, Daphnia magna 1,8 - 2,9 mg/L (48 h)

Algae toxicity, IC50:, Selenastrum capricornutum: 4,6 mg/L (72 h)

1-methoxy-2-propanol

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

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

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

Bacteria toxicity, IC50:, Activated sludge: 1000 mg/L (3 h)

Method: OECD 209

2-methoxy-1-methylethyl acetate

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Fish toxicity, LC50, *Oncorhynchus mykiss* (Rainbow trout): > 100 mg/L (96 h)
Daphnia toxicity, EC50, *Daphnia magna*: 408 mg/L (48 h)
Algae toxicity, ErC50, *Pseudokirchneriella subcapitata*: > 1000 mg/L (72 h)

Xylene

Fish toxicity, LC50, *Leuciscus idus* (golden orfe): 86 mg/L (96 h)
Algae toxicity, LC50, *Selenastrum capricornutum* 2 - 8 mg/L (72 h)

Hydrocarbons, C9, aromatics

Fish toxicity, LC50, *Oncorhynchus mykiss* (Rainbow trout): 9,2 mg/L (96 h)
Method: OECD 203
Daphnia toxicity, EC50, *Daphnia magna* (Big water flea): 3,2 mg/L (48 h)
Method: OECD 202
Algae toxicity, ErC50, *Pseudokirchneriella subcapitata*: 2,629 mg/L (72 h)
Method: OECD 201

Titanium dioxide

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)

Long-term Ecotoxicity

Harmful to aquatic life with long lasting effects.

2-methoxy-1-methylethyl acetate

Fish toxicity, NOEC, *Oryzias latipes*: 47,5 mg/L (14 d)
Daphnia toxicity, NOEC: > 100 mg/L
Algae toxicity, NOEC, *Pseudokirchneriella subcapitata*: 1000 mg/L (72 h)

Xylene

Fish toxicity, NOEC, *Oncorhynchus mykiss* (Rainbow trout): > 1,3 mg/L (56 d)
Daphnia toxicity, NOEC, *Daphnia sp.*: 0,96 mg/L (7 d)

12.2. Persistence and degradability

Ethylbenzene

Biodegradation: 100 % (6 d); Evaluation Readily biodegradable (according to OECD criteria)
Method: OECD 301E

1-methoxy-2-propanol

Biodegradation: 96 % (28 d); Evaluation Readily biodegradable (according to OECD criteria)
Method: OECD 301E

2-methoxy-1-methylethyl acetate

Biodegradation: 83 % (28 d); Evaluation Readily biodegradable (according to OECD criteria)
Method: OECD 301F

Xylene

Biodegradation: 87,8 % (28 d); Evaluation Readily biodegradable (according to OECD criteria)
Method: OECD 301F

Hydrocarbons, C9, aromatics

Biodegradation, Degree of elimination: 89 % (28 d); Evaluation Readily biodegradable (according to OECD criteria)
Method: OECD 301F

12.3. Bioaccumulative potential

Ethylbenzene

Partition coefficient: n-octanol/water: 3,2

1-methoxy-2-propanol

Partition coefficient n-octanol /water (log P O/W):: 0,37

2-methoxy-1-methylethyl acetate

Partition coefficient n-octanol /water (log P O/W):: 1,2
Method: OECD 117

Xylene

Partition coefficient: n-octanol/water: 2,77 - 3,15

Hydrocarbons, C9, aromatics

Partition coefficient n-octanol /water (log P O/W):: 3,7 - 4,5

Bioconcentration factor (BCF)

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Ethylbenzene

Bioconcentration factor (BCF): 1

1-methoxy-2-propanol

Bioconcentration factor (BCF): < 100

Xylene

Bioconcentration factor (BCF), Oncorhynchus mykiss (Rainbow trout): 25,9

Titanium dioxide

Bioconcentration factor (BCF), Oncorhynchus mykiss (Rainbow trout): 19 - 352

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. **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.

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**

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)**

Land transport (ADR/RID):

Not goods of class 3
in containers > 450 l Class 3

Sea transport (IMDG)

3

for packages < = 450 litres

Transport in accordance with 2.3.2.5 of the IMDG Code.

Air transport (ICAO-TI / IATA-DGR)

3

14.4. **Packing group**

III

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

D/E

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Sea transport (IMDG)

EmS-No. F-E, S-E

14.7. **Transport in bulk according to Annex II of Marpol and the IBC Code**
 not applicable

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

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 (g/L) of the product in a ready to use condition: 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 juvenils 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.
918-668-5	Hydrocarbons, C9, aromatics	01-2119455851-35
216-372-4 1569-01-3	1-propoxy-2-propanol	01-2119474443-37
203-603-9 108-65-6	2-methoxy-1-methylethyl acetate	01-2119475791-29
215-535-7 1330-20-7	Xylene	01-2119488216-32
203-539-1 107-98-2	1-methoxy-2-propanol	01-2119457435-35
204-626-7 123-42-2	4-hydroxy-4-methylpentan-2-one	01-2119473975-21
202-849-4 100-41-4	Ethylbenzene	01-2119489370-35
919-446-0	Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclic, aromatics (2-25 %)	01-2119458049-33

SECTION 16: Other information

Full text of classification in section 3:

Flam. Liq. 3 / H226	Flammable liquids	Flammable liquid and vapour.
STOT SE 3 / H335	STOT-single exposure	May cause respiratory irritation.
Aquatic Chronic 2 / H411	Hazardous to the aquatic environment	Toxic to aquatic life with long lasting effects.
Asp. Tox. 1 / H304	Aspiration hazard	May be fatal if swallowed and enters airways.
STOT SE 3 / H336	STOT-single exposure	May cause drowsiness or dizziness.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
Acute Tox. 4 / H312	Acute toxicity (dermal)	Harmful in contact with skin.
Acute Tox. 4 / H332	Acute toxicity (inhalative)	Harmful if inhaled.
Skin Irrit. 2 / H315	Skin corrosion/irritation	Causes skin irritation.
STOT RE 2 / H373	STOT-repeated exposure	May cause damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
Repr. 2 / H361	Reproductive toxicity	Suspected of damaging fertility or the unborn child (state specific effect if known) (state route of exposure if it is conclusively proven that no

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Aquatic Chronic 3 / H412
Flam. Liq. 2 / H225

Hazardous to the aquatic environment
Flammable liquids

other routes of exposure cause the hazard).
Harmful to aquatic life with long lasting effects.
Highly flammable liquid and vapour.

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.
STOT SE 3	STOT-single exposure	Calculation method.
Aquatic Chronic 3	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
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

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.

* Data changed compared with the previous version