

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



Article No.: KP701074GZ10 SolvSeal SportMarking Color
Print date: 22.01.2021 Revision date: 22.01.2021 EN
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. product identifiers

Article No. (manufacturer/supplier) KP701074GZ10
Trade name/designation SolvSeal SportMarking Color
Gelb
Stat.Warennummer: 3208.10.900

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

Relevant identified uses:

paint and/or paint related material
Reserved for industrial and professional use.

Uses advised against:

Do not use for injecting or spraying.

1.3. Details of the supplier of the safety data sheet

supplier (manufacturer/importer/downstream user/distributor)

Berger-Seidle GmbH
Parkettlacke - Klebstoffe - Bauchemie Telephone: +49 6359 / 8005-0
Maybachstraße 2 Telefax: +49 6359 / 8005-170
67269 Grünstadt
Germany

Department responsible for information:

Laboratory

E-mail

Sicherheitsdaten@berger-seidle.de

1.4. Emergency telephone number

24-hour emergency number: +49 700 24112112

(BLG)

24-hour emergency number in side USA: +11 49 700 24112112 (BLG)

UFI: VT10-T08R-C008-QVFA

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.
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

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

Hazard pictograms



Warning

Hazard statements

H226	Flammable liquid and vapour.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
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.
P403 + P235	Store in a well-ventilated place. Keep cool.

Hazard components for labelling

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

Supplemental hazard information

EUH208 Contains 2-butanone oxime; Fatty acids, C14-18 and C16-18-unsatd., maleated. May produce an allergic reaction.

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2.3. Other hazards

Spontaneous ignition possible through autoxidation of cloths soaked in the product. (The same applies to dust and other paint-soaked items). The product itself is not self ignitive.

Other information

Read label before use. If medical advice is needed, have product container or label at hand. Keep out of reach of children.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Description Oil epoxy resin sealants, high in solvents, aromatics removed

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

EC No. CAS No. Index No.	REACH No. Designation classification // Remark	weight-%
265-150-3 64742-48-9 649-327-00-6	01-2119463258-33-XXXX Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics Flam. Liq. 3 H226 / Asp. Tox. 1 H304 / STOT SE 3 H336	15 - 20
265-199-0 64742-95-6 649-356-00-4	01-2119455851-35-XXXX Hydrocarbons, C9, aromatics STOT SE 3 H335 / STOT SE 3 H336 / Asp. Tox. 1 H304 / Aquatic Chronic 2 H411 / Flam. Liq. 3 H226	7,5 - 10
927-241-2	01-2119471843-32-XXXX Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics Skin Irrit. 3 H316 / STOT SE 3 H336 / Asp. Tox. 1 H304 / Aquatic Acute 3 H402 / Aquatic Chronic 3 H412 / Flam. Liq. 3 H226	7,5 - 10
203-603-9 108-65-6 607-195-00-7	01-2119475791-29-XXXX 2-methoxy-1-methylethyl acetate Flam. Liq. 3 H226	2,5 - 5
259-370-9 54839-24-6 603-177-00-8	01-2119475116-39-XXXX 2-ethoxy-1-methylethyl acetate Flam. Liq. 3 H226 / STOT SE 3 H336	1 - 2,5
204-658-1 123-86-4 607-025-00-1	01-2119485493-29-XXXX n-butyl acetate Flam. Liq. 3 H226 / STOT SE 3 H336	1 - 2,5
245-018-1 22464-99-9	01-2119979088-21-XXXX Repr. 2 H361	0,5 - 1
202-496-6 96-29-7 616-014-00-0	01-2119539477-28-XXXX 2-butanone oxime Carc. 2 H351 / Acute Tox. 4 H312 / Eye Dam. 1 H318 / Skin Sens. 1 H317	0,1 - 0,25
288-306-2 85711-46-2	01-2119976378-19-XXXX Fatty acids, C14-18 and C16-18-unsatd., maleated Skin Irrit. 2 H315 / Eye Irrit. 2 H319 / Skin Sens. 1 H317	0,1 - 0,25
219-535-8 2457-01-4	01-2119983179-22-XXXX Acute Tox. 4 H302 / Acute Tox. 4 H332 / Eye Dam. 1 H318 / Repr. 2 H361	0,1 - 0,25

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

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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 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.

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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 25 °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, C9-C11, 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/m³

Remark: (> or = C7, Cycloalkanes)

WEL, TWA: 1200 mg/m³

Remark: (> or = C7, Normal and branched chain alkanes)

WEL, TWA: 1200 mg/m³

Remark: (> or = C7, Normal and branched chain alkanes)

WEL, TWA: 1200 mg/m³

Remark: (> or = C7, Normal and branched chain alkanes)

Hydrocarbons, C9, aromatics

Index No. 649-356-00-4 / EC No. 265-199-0 / CAS No. 64742-95-6

WEL, TWA: 500 mg/m³

Remark: (Aromatics)

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)

n-butyl acetate

Index No. 607-025-00-1 / EC No. 204-658-1 / CAS No. 123-86-4

MEL/OES, TWA: 724 mg/m³; 150 ppm

MEL/OES, STEL: 966 mg/m³; 200 ppm

Additional information

TWA : Long-term occupational exposure limit value

STEL : short-term occupational exposure limit value

Ceiling : peak limitation

DNEL:

n-butyl acetate

Index No. 607-025-00-1 / EC No. 204-658-1 / CAS No. 123-86-4

DNEL acute dermal, short-term (systemic), Workers: 11 mg/kg

DNEL long-term dermal (systemic), Workers: 7 mg/kg

DNEL acute inhalative (local), Workers: 600 mg/m³

DNEL long-term inhalative (local), Workers: 300 mg/m³

DNEL long-term inhalative (systemic), Workers: 48

DNEL acute dermal, short-term (systemic), Consumer: 6 mg/kg

DNEL long-term dermal (systemic), Consumer: 6 mg/kg

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DNEL acute inhalative (local), Consumer: 300 mg/m³
DNEL long-term inhalative (local), Consumer: 35,7 mg/m³
DNEL long-term inhalative (systemic), Consumer: 12
DNEL long-term exposure oral (systemic effects), Consumer: 2 mg/kg

2-methoxy-1-methylethyl acetate

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

DNEL long-term dermal (systemic), Workers: 153,5 mg/kg
DNEL long-term inhalative (systemic), Workers: 275 mg/m³
DNEL long-term oral (repeated), Consumer: 1,67 mg/kg
DNEL long-term dermal (systemic), Consumer: 54,8 mg/kg
DNEL long-term inhalative (systemic), Consumer: 33 mg/m³

Hydrocarbons, C9, aromatics

Index No. 649-356-00-4 / EC No. 265-199-0 / CAS No. 64742-95-6

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

Fatty acids, C14-18 and C16-18-unsatd., maleated

EC No. 288-306-2 / CAS No. 85711-46-2

DNEL long-term dermal (systemic), Workers: 3,33 mg/kg

PNEC:

n-butyl acetate

Index No. 607-025-00-1 / EC No. 204-658-1 / CAS No. 123-86-4

PNEC aquatic, freshwater: 0,18 mg/L
PNEC aquatic, marine water: 0,018 mg/L
PNEC aquatic, intermittent release: 0,36 mg/L
PNEC sediment, freshwater: 0,981 mg/L
PNEC sediment, marine water: 0,0981 mg/L
PNEC, soil: 0,0903 mg/kg
PNEC sewage treatment plant (STP): 35,6 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 sediment, freshwater: 3,29 mg/kg
PNEC sediment, marine water: 0,329 mg/kg
PNEC, soil: 0,29 mg/kg

Fatty acids, C14-18 and C16-18-unsatd., maleated

EC No. 288-306-2 / CAS No. 85711-46-2

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. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190). 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.

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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

Appearance:

Physical state: Liquid
Colour: yellow

Odour: characteristic

Odour threshold: not applicable

pH at 20 °C: not applicable

Melting point/freezing point: not applicable

Initial boiling point and boiling range: 110 °C

Source: Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics

Flash point: 24 °C

Evaporation rate: not applicable

flammability

Burning time: not applicable

Upper/lower flammability or explosive limits:

Lower explosion limit: 1,3 Vol-%

Upper explosion limit: 10,8 Vol-%

Source: 2-methoxy-1-methylethyl acetate

Vapour pressure at 20 °C: 15 mbar

Method: calculated.

Source: n-butyl acetate

Vapour density: not applicable

Relative density:

Density at 20 °C: 1,05 g/cm³

Solubility(ies):

Water solubility at 20 °C: insoluble

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

Auto-ignition temperature: 200 °C

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

Decomposition temperature: not applicable

Viscosity at 20 °C: 95 s 4 mm

Method: DIN 53211

Explosive properties: not applicable

Oxidising properties: not applicable

9.2. Other information

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

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.

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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

n-butyl acetate

oral, LD50, Rat: 10760 mg/kg

dermal, LD50, Rabbit: > 14100 mg/kg

2-methoxy-1-methylethyl acetate

oral, LD50, Rat: > 5000 mg/kg

Method: OECD 402

dermal, LD50, Rat: > 5000 mg/kg

inhalative (vapours), LC0, Rat: > 4345 ppm (6 h)

inhalative (dust and mist), LC50, Rat: > 23,8 mg/L (6 h)

2-ethoxy-1-methylethyl acetate

oral, LD50, Rat: 4755 mg/kg

dermal, LD50, Rabbit: 13,42 mg/kg

inhalative (vapours), LC50, Rat: 6,99 mg/L (4 h)

Hydrocarbons, C9-C10, 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

Hydrocarbons, C9, aromatics

oral, LD50, Rat: > 2000 mg/kg

dermal, LD50, Rabbit: > 2000 mg/kg

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

oral, LD50, Rat: > 5000 mg/kg

Method: OECD 401

dermal, LD50, Rabbit: > 2000 mg/kg

oral, LD50, Rat

inhalative (vapours), LC50, Rat (4 h)

Fatty acids, C14-18 and C16-18-unsatd., maleated

oral, LD50, Rat: > 2000 mg/kg

Method: OECD 423

female

Skin corrosion/irritation; Serious eye damage/eye irritation

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics
eyes

Hydrocarbons, C9, aromatics

Skin

Repeated exposure may cause skin dryness or cracking.

Respiratory or skin sensitisation

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n-butyl acetate

Skin:

Respiratory system:

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics

; ; Evaluation No sensitising effect known

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

2-butanone oxime

Carcinogenicity

Reproductive toxicity

STOT-single exposure; STOT-repeated exposure

May cause drowsiness or dizziness.

n-butyl acetate

Specific target organ toxicity (single exposure), drowsiness

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics

Specific target organ toxicity (single exposure), drowsiness

Hydrocarbons, C9, aromatics

Specific target organ toxicity (single exposure), Irritation Evaluation May cause respiratory irritation.

Specific target organ toxicity (single exposure), drowsiness Evaluation May cause drowsiness or dizziness.

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

Specific target organ toxicity (single exposure)

Aspiration hazard

n-butyl acetate

Aspiration hazard

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics

Aspiration hazard

Hydrocarbons, C9, aromatics

Aspiration hazard

Hydrocarbons, C9-C11, 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.

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

n-butyl acetate

Fish toxicity, LC50, *Leuciscus idus* (golden orfe): 62 mg/L (96 h)

Daphnia toxicity, EC50, *Daphnia magna* (Big water flea): 72,8 mg/L (24 h)

Algae toxicity, *Scenedesmus subspicatus*: 674,7 mg/L (72 h)

Fish toxicity, *Lepomis macrochirus* (Bluegill): 100 mg/L (96 h)

Fish toxicity, LC50, *Pimephales promelas* (fathead minnow): 18 mg/L (96 h)

2-methoxy-1-methylethyl acetate

Fish toxicity, LC50, *Oncorhynchus mykiss* (Rainbow trout): 134 mg/L (96 h)

Method: OECD 203

Daphnia toxicity, EC50, *Daphnia magna* (Big water flea): > 500 mg/L (48 h)

Method: Richtlinie 67/548/EWG, Anhang V, C.2.

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Algae toxicity, EC50, Selenastrum capricornutum: > 1000 mg/L (72 h)

Method: OECD 201

Bacteria toxicity, EC10, Activated sludge: > 1000 mg/L (30 min)

Method: ISO 8192

2-ethoxy-1-methylethyl acetate

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 140 mg/L (96 h)

Daphnia toxicity, EC50, Daphnia magna (Big water flea): 110 mg/L (48 h)

Bacteria toxicity, EC10, Pseudomonas putida: 560 mg/L (16 h)

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics

Daphnia toxicity, EL50, Daphnia magna (Big water flea) 22 - 46 mg/L (48 h)

Algae toxicity, EL50, Pseudokirchneriella subcapitata: > 1000 mg/L (72 h)

Algae toxicity, NOELR, Pseudokirchneriella subcapitata: < 1 mg/L (72 h)

Fish toxicity, LL50, Oncorhynchus mykiss (Rainbow trout) 10 - 30 mg/L (96 h)

Hydrocarbons, C9, aromatics

Daphnia toxicity, EC50 1 - 10 mg/L (48 h); Evaluation estimated

Fish toxicity, LC50 1 - 10 mg/L; Evaluation estimated

Algae toxicity, EC50 1 - 10 mg/L; Evaluation estimated

Bacteria toxicity, EC50: > 100 mg/L ; Evaluation estimated

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

Fish toxicity, LC50 (96 h)

Algae toxicity, EL50: > 1000 mg/L (72 h)

Method: OECD 201

Daphnia toxicity, EL50: > 1000 mg/L (48 h)

Method: OECD 202

Fish toxicity, CL50: > 100 mg/L (96 h)

Method: OECD 202

Fatty acids, C14-18 and C16-18-unsatd., maleated

Fish toxicity, LC50, Leuciscus idus (golden orfe): > 150 mg/L (96 h); Evaluation static test

Method: DIN 38412

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

Method: OECD 202

Algae toxicity, ErC50, Pseudokirchneriella subcapitata: > 100 mg/L ; Evaluation semistatic

Method: OECD 201

Bacteria toxicity, EC50, Activated sludge: > 1000 mg/L (3 h); Evaluation static test

Method: OECD 209

Long-term Ecotoxicity

Harmful to aquatic life with long lasting effects.

2-methoxy-1-methylethyl acetate

Fish toxicity, NOEC, Oryzias latipes (Ricefish): 47,5 mg/L (14 D)

Method: OECD 204

Daphnia toxicity, NOEC, Daphnia magna (Big water flea): > 100 mg/L 100 (21 D)

Method: OECD 202

Hydrocarbons, C9, aromatics

Fish toxicity, LC50 (96 h)

Daphnia toxicity, NOEC

12.2. Persistence and degradability

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics

: 89 % (28 D)

Hydrocarbons, C9, aromatics

:

12.3. Bioaccumulative potential

n-butyl acetate

Partition coefficient: n-octanol/water: 1,81

Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected.

12.4. Mobility in soil

Toxicological data are not available.

12.5. Results of PBT and vPvB assessment

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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):

KEINE GÜTER DER KLASSE 3

bunch > 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)

not applicable

Marine pollutant

not applicable

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

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

VOC-value (in g/L) ISO 11890-2: 447

VOC-value (in g/L) ASTM D2369: 447

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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: 447

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).

MAL-Kode (MAL Kode ready-to-use): 3-3

PR-No.:

15.2. Chemical Safety Assessment

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

SECTION 16: Other information

Full text of classification in section 3

Flam. Liq. 3 / H226	Flammable liquids	Flammable liquid and vapour.
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.
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.
Skin Irrit. 3 / H316	Skin corrosion/irritation	Causes mild skin irritation.
Aquatic Acute 3 / H402	Hazardous to the aquatic environment	Harmful to aquatic organisms.
Aquatic Chronic 3 / H412	Hazardous to the aquatic environment	Harmful to aquatic life with long lasting effects.
Repr. 2 / H361	Reproductive toxicity	Suspected of damaging the unborn child.
Carc. 2 / H351	Carcinogenicity	Suspected of causing cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
Acute Tox. 4 / H312	Acute toxicity (dermal)	Harmful in contact with skin.
Eye Dam. 1 / H318	Serious eye damage/eye irritation	Causes serious eye damage.
Skin Sens. 1 / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.
Skin Irrit. 2 / H315	Skin corrosion/irritation	Causes skin irritation.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
Acute Tox. 4 / H302	Acute toxicity (oral)	Harmful if swallowed.
Acute Tox. 4 / H332	Acute toxicity (inhalative)	Harmful if inhaled.

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.
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

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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.