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

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

1.1. **product identifiers**

Article No. (manufacturer/supplier)	KP703004GZ10
Trade name/designation	SolvSeal SportMarking Color Rot 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
Maybachstraße 2
67269 Grünstadt
Germany

Telephone: +49 6359 / 8005-0
Telefax: +49 6359 / 8005-170

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: UC00-60J0-400V-G2J7

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

EUH066	Repeated exposure may cause skin dryness or cracking.
EUH208	Contains 2-butanone oxime; Fatty acids, C14-18 and C16-18-unsatd., maleated. May produce an

allergic reaction.

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	20 - 25
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	10 - 15
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	2,5 - 5
203-603-9 108-65-6 607-195-00-7	01-2119475791-29-XXXX 2-methoxy-1-methylethyl acetate Flam. Liq. 3 H226	1 - 2,5
918-481-9	01-2119457273-39-XXXX Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics Asp. Tox. 1 H304	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	0,25 - 0,5
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
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
286-272-3 85203-81-2	01-2119979093-30-XXXX Hexanoic acid, 2-ethyl-, zinc salt, basic Eye Irrit. 2 H319 / Repr. 2 H361 / Aquatic Chronic 3 H412	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
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.

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)

Additional information

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

DNEL:

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:

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.

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:	**red**
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:	**1,5 Vol-%**
Upper explosion limit:	**10,8 Vol-%** Source: 2-methoxy-1-methylethyl acetate
Vapour pressure at 20 °C:	**10 mbar** Method: calculated. Source: Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics
Vapour density:	**not applicable**
Relative density:	
Density at 20 °C:	**1,03 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.

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

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)

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

oral, LD50, Rat: > 5000 mg/kg
dermal, LD50, Rabbit: > 5000 mg/kg
oral, LC50, Rat: > 5 mg/L
Method: OECD 403

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

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

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

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.

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics
Specific target organ toxicity (single exposure) Evaluation The substance or mixture is not rated as target-organ-toxic

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

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics
Aspiration hazard; Evaluation May be fatal if swallowed and enters airways.

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**

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.
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

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics
Fish toxicity, LL0, Oncorhynchus mykiss (Rainbow trout) (96 h)
Daphnia toxicity, EL0, Daphnia magna (Big water flea): 1000 mg/L (48 h)
Algae toxicity, EL0, Pseudokirchneriella subcapitata: 72 mg/L (72 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, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics
Fish toxicity, NOELR, Oncorhynchus mykiss (Rainbow trout): 0,1 mg/L (28 D)
Daphnia toxicity, NOELR, Daphnia magna (Big water flea): 0,18 mg/L (21 D)

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**
Toxicological data are not available.

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):	KEINE GÜTER DER KLASSE 3 bunch > 450 l class 3
Sea transport (IMDG) for packages < = 450 litres	3 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: 442
VOC-value (in g/L) ASTM D2369: 442

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: 442

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.
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.
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.
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.
Acute Tox. 4 / H302	Acute toxicity (oral)	Harmful if swallowed.

Acute Tox. 4 / H332	Acute toxicity (inhalative)	Harmful if inhaled.
Skin Irrit. 2 / H315	Skin corrosion/irritation	Causes skin irritation.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
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 other routes of exposure cause the hazard).

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
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.