

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

VFL
Vismara Farbladen

Article No.: 81 SILAXOL Holzimprägniergrund
Print date: 27.12.2022 Revision date: 10.12.2022 EN
Version: 9.0 Issue date: 10.12.2022 Page 1 / 10

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

1.1. Product identifier

Article No. (manufacturer/supplier) 81
Trade name/designation SILAXOL Holzimprägniergrund
farblos

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

Relevant identified uses:

Coating material to protecting surfaces

1.3. Details of the supplier of the safety data sheet

supplier (manufacturer/importer/downstream user/distributor)
Vismara Unternehmungen CH-5000 Aarau www.farbladen.ch

Department responsible for information:

laboratory Manager

E-mail (competent person)

info@knuchel.ch

1.4. Emergency telephone number

Emergency telephone number 145 (+41 (0)44 251 51 51)

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.

Asp. Tox. 1 / H304

Aspiration hazard

May be fatal if swallowed and enters airways.

Aquatic Acute 1 / H400

Hazardous to the aquatic environment

Very toxic to aquatic organisms.

Aquatic Chronic 1 / H410

Hazardous to the aquatic environment

Very toxic to aquatic life with long lasting effects.

2.2. Label elements

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

Hazard pictograms



Danger

Hazard statements

H226

Flammable liquid and vapour.

H304

May be fatal if swallowed and enters airways.

H410

Very toxic to aquatic life with long lasting effects.

Precautionary statements

P101

If medical advice is needed, have product container or label at hand.

P102

Keep out of reach of children.

P103

Read carefully and follow all instructions.

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233

Keep container tightly closed.

P240

Ground and bond container and receiving equipment.

P241

Use explosion-proof electrical equipment.

P242

Use non-sparking tools.

P243

Take action to prevent static discharges.

P273

Avoid release to the environment.

P280

Wear protective gloves and eye/face protection.

P301 + P310

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P303 + P361 + P353

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P331

Do NOT induce vomiting.

P370 + P378

In case of fire: Use extinguishing powder or sand to extinguish.

P391

Collect spillage.

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P403 + P235 Store in a well-ventilated place. Keep cool.
P405 Keep locked up.
P501 Dispose of contents/container to industrial incineration plant.

Hazard components for labelling

Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2% aromatics

Supplemental hazard information

EUH208 Contains 3-iodo-2-propynyl butyl carbamate. May produce an allergic reaction.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Description solvent-based alkyd resin, containing the following hazardous substances:

Hazardous ingredients

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

EC No. CAS No. Index No.	REACH No. Designation classification // Remark	weight-%
918-481-9	01-2119457273-39 Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2% aromatics Asp. Tox. 1 H304	80 - 100
252-104-2 34590-94-8	01-2119450011-60 Dipropylene glycol methyl ether Substance with a common (EC) occupational exposure limit value.	1 - 5
259-627-5 55406-53-6 616-212-00-7	3-iodo-2-propynyl butyl carbamate Acute Tox. 4 H302 / Acute Tox. 3 H331 / Eye Dam. 1 H318 / Skin Sens. 1 H317 / STOT SE 3 H335 / STOT RE 1 H372 / Aquatic Acute 1 H400 (M = 10) / Aquatic Chronic 1 H410 (M = 1) Specific concentration limit (SCL): Aquatic Chronic 1 H410 >= 0.7	0.1 - 0.5
403-640-2 107534-96-3 603-197-00-7	tebuconazole (ISO) Repr. 2 H361 / Acute Tox. 4 H302 / Aquatic Acute 1 H400 (M = 1) / Aquatic Chronic 1 H410 (M = 10)	0.1 - 0.5
258-067-9 52645-53-1 613-058-00-2	permethrin (ISO) Acute Tox. 4 H332 / Acute Tox. 4 H302 / Skin Sens. 1 H317 / Aquatic Acute 1 H400 (M = 1000) / Aquatic Chronic 1 H410 (M = 1000)	0.05 - 0.1

Additional information

Full text of classification: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

In case of inhalation

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

Following skin contact

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

Following ingestion

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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

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Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 15 °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

The professional use of such preparation by young people is restricted or prohibited. (see Fig. provisions in Chap. 15)

8.1. Control parameters

Occupational exposure limit values

Dipropylene glycol methyl ether

EC No. 252-104-2 / CAS No. 34590-94-8

WEL, TWA: 308 mg/m³; 50 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:

Dipropylene glycol methyl ether

EC No. 252-104-2 / CAS No. 34590-94-8

DNEL long-term dermal (systemic), Workers: 283 mg/kg

DNEL long-term inhalative (systemic), Workers: 308 mg/m³

PNEC:

Dipropylene glycol methyl ether

EC No. 252-104-2 / CAS No. 34590-94-8

PNEC aquatic, freshwater: 19 mg/L

PNEC aquatic, marine water: 1,9 mg/L

PNEC sediment, freshwater: 70,2 mg/kg

PNEC sediment, marine water: 7,02 mg/kg

PNEC, soil: 2,74 mg/kg

PNEC sewage treatment plant (STP): 4168 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

For spray application, a respirator should be worn with a protection factor of at least 50. 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

Wear suitable gloves. 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
Colour: refer to label

Odour: characteristic

Odour threshold: not applicable

pH at 20 °C: not applicable

Melting point/freezing point: not applicable

Initial boiling point and boiling range: 180 °C

Source: Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2% aromatics

Flash point: 30 °C

Method: DIN 53213

Evaporation rate: not applicable

flammability

Burning time: not applicable

Upper/lower flammability or explosive limits:

Lower explosion limit: 1.1 Vol-%

Upper explosion limit: 14 Vol-%

Source: Dipropylene glycol methyl ether

Vapour pressure at 20 °C:

0.6 mbar

Source: Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2% aromatics

Vapour density:

not applicable

Relative density:

Density at 20 °C: 0.80 g/cm³

Solubility(ies):

Water solubility at 20 °C: insoluble

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

Auto-ignition temperature: 207 °C

Source: Dipropylene glycol methyl ether

Decomposition temperature: not applicable

Viscosity at °C: 10 - 14 sec DIN 4 mm

Explosive properties: not applicable

Oxidising properties: not applicable

9.2. Other information

Solid content: 7 weight-%

solvent content:

Organic solvents: 93 weight-%

Water: 0 weight-%

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

10.4. Conditions to avoid

Hazardous decomposition byproducts may form with exposure to high temperatures.

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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]

11.1. **Information on toxicological effects**

Acute toxicity

permethrin (ISO)

oral, LD50, Rat: 383 mg/kg

dermal, LD50, Rabbit: > 2000 mg/kg

3-iodo-2-propynyl butyl carbamate

oral, LD50, Rat: 500 mg/kg 300 - 500 mg/kg

Method: OECD 423

dermal, LD50, Rat: > 5000 mg/kg

Method: OECD 402

inhalative (dust and mist), LC50, Rat: 0,67 mg/L (4 h)

Method: OECD 403

Dipropylene glycol methyl ether

oral, LD50, Rat: 5400 mg/kg

dermal, LD50, Rabbit: > 1900 mg/kg

Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2% aromatics

oral, LD50, Rat: > 15000 mg/kg

dermal, LD50, Rabbit: > 3160 mg/kg

Skin corrosion/irritation; Serious eye damage/eye irritation

Dipropylene glycol methyl ether

Skin (4 h)

Not to be classified as skin etching/irritant.

eyes

Not to be classified as severe eye damage or eye irritation.

Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2% aromatics

Skin (4 h)

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

eyes

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

Respiratory or skin sensitisation

Dipropylene glycol methyl ether

Skin: ; Evaluation Not to be classified as an inhalation or skin allergen.

Respiratory system: ; Evaluation Not to be classified as an inhalation or skin allergen.

Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2% aromatics

Skin: ; Evaluation Based on available data, the classification criteria are not met.

Respiratory system: ; Evaluation Based on available data, the classification criteria are not met.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Dipropylene glycol methyl ether

Germ cell mutagenicity; Evaluation Not to be classified as germ cell mutagen (mutagen).

Carcinogenicity; Evaluation Does not qualify as a carcinogen.

Reproductive toxicity; Evaluation Does not qualify as a carcinogen.

Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2% aromatics

Germ cell mutagenicity; Evaluation Based on available data, the classification criteria are not met.

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

Reproductive toxicity; Evaluation Based on available data, the classification criteria are not met.

STOT-single exposure; STOT-repeated exposure

Dipropylene glycol methyl ether

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Specific target organ toxicity (single exposure) Evaluation Not to be classified as specific target organ toxic (single exposure).

Specific target organ toxicity (repeated exposure) Evaluation Not to be classified as specific target organ toxic (repeated exposure).

Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2% aromatics

Specific target organ toxicity (single exposure) Evaluation Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure) Evaluation Based on available data, the classification criteria are not met.

Aspiration hazard

May be fatal if swallowed and enters airways.

Dipropylene glycol methyl ether

Aspiration hazard; Evaluation Not to be classified as aspirational.

Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2% aromatics

Aspiration hazard; Evaluation May be fatal if swallowed and enters airways.

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]

Do not allow to enter into surface water or drains.

12.1. Toxicity

Very toxic to aquatic organisms.

permethrin (ISO)

Fish toxicity, LC50, *Poecilia reticulata* (Guppy): 0,0076 mg/L 0,0006 - 24,4 mg/L (96 h)
freshwater

Daphnia toxicity, EC50, *Daphnia magna* (Big water flea): 0,0002 mg/L 0 - 0,05 mg/L (48 h)

Method: OECD 202

Algae toxicity, ErC50, Algae: 0,5 mg/L (72 h)

Daphnia toxicity, LC50: 0,0027 mg/L 0,0002 - 38,1 mg/L (48 h)

3-iodo-2-propynyl butyl carbamate

Fish toxicity, LC50, *Oncorhynchus mykiss* (Rainbow trout): 0,183 mg/L 0,067 - 1,9 mg/L (96 h)

Method: OECD 203

Daphnia toxicity, EC50, *Daphnia magna* (Big water flea): 0,55 mg/L 0,16 - 0,95 mg/L (48 h)

Method: OECD 202

Daphnia toxicity, LC50: 0,5 mg/L 0,04 - 2,92 mg/L (48 h)

Algae toxicity, NOEC, *Desmodesmus subspicatus*: 0,0046 mg/L (72 h)

Method: OECD 201

Toxicity to microorganisms, EC50, Activated sludge: 44 mg/L (3 h)

Dipropylene glycol methyl ether

Fish toxicity, LC50, *Poecilia reticulata* (Guppy): > 1000 mg/L (96 h)

Daphnia toxicity, EC50, *Daphnia magna*: 1919 mg/L (48 h)

Algae toxicity, ErC50, *Pseudokirchneriella subcapitata*: > 969 mg/L (72 h)

Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2% aromatics

Fish toxicity, LC50, *Pimephales promelas* (fathead minnow): 220 mg/L (96 h)

Daphnia toxicity, LC50, *Crangon crangon*: 4,3 mg/L (96 h)

Long-term Ecotoxicity

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Very toxic to aquatic life with long lasting effects.

3-iodo-2-propynyl butyl carbamate

Fish toxicity, LC50 (96 h)

Fish toxicity, NOEC, Pimephales promelas (fathead minnow): 0,0084 mg/L (35 d)

Method: OECD 210

Daphnia toxicity, NOEC, Daphnia magna (Big water flea): 0,05 mg/L (21 d)

Dipropylene glycol methyl ether

Fish toxicity, LC50 (96 h)

Daphnia toxicity, NOEC: > 0,5 mg/L (22 d)

Daphnia toxicity, LC50: > 1000 mg/L (24 h)

Daphnia toxicity, LOEC: 0,5 mg/L (22 d)

12.2. Persistence and degradability

Dipropylene glycol methyl ether

Biodegradation: Evaluation Readily biodegradable (according to OECD criteria).

Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2% aromatics

Biodegradation: Evaluation Not readily biodegradable (according to OECD criteria)

12.3. Bioaccumulative potential

Dipropylene glycol methyl ether

Distribution coefficient n-octanol/water (log KOW): 0,004 ; Evaluation Does not significantly accumulate in organisms.

Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2% aromatics

Partition coefficient: n-octanol/water:

No further relevant information available.

12.4. Mobility in soil

Dipropylene glycol methyl ether

soil:

No further relevant information available.

Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2% aromatics

soil:

No further relevant information 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)

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14.4. Packing group

III

14.5. Environmental hazards

Land transport (ADR/RID) UMWELTGEFÄHRDEND

Marine pollutant p

14.6. Special precautions for user

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.

Advices on safe handling: see parts 6 - 8

Further information

Land transport (ADR/RID)

Tunnel restriction code D/E

Sea transport (IMDG)

EmS-No. F-E, S-E
 in packages <= 5 litres not restricted 2.10.2.7

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): 750

National regulations

Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Youth Employment Protection Regulation (ArGV 5, SR 822115)

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.
918-481-9	Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2% aromatics	01-2119457273-39
252-104-2 34590-94-8	Dipropylene glycol methyl ether	01-2119450011-60

SECTION 16: Other information

Full text of classification in section 3:

Asp. Tox. 1 / H304	Aspiration hazard	May be fatal if swallowed and enters airways.
Acute Tox. 4 / H302	Acute toxicity (oral)	Harmful if swallowed.
Acute Tox. 3 / H331	Acute toxicity (inhalative)	Toxic if inhaled.
Eye 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.
STOT SE 3 / H335	STOT-single exposure	May cause respiratory irritation.
STOT RE 1 / H372	STOT-repeated exposure	Causes 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).
Aquatic Acute 1 / H400	Hazardous to the aquatic environment	Very toxic to aquatic organisms.
Aquatic Chronic 1 / H410	Hazardous to the aquatic environment	Very toxic to aquatic life with long lasting effects.

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Repr. 2 / H361	Reproductive toxicity	Suspected of damaging the unborn child.
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.
Asp. Tox. 1	Aspiration hazard	Calculation method.
Aquatic Acute 1	Hazardous to the aquatic environment	Calculation method.
Aquatic Chronic 1	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.