

Safety Data Sheet

according to UK REACH Regulation

Page 1 of 18

Print date: 13.03.2023

Revision date: 07.03.2023

VPW 110

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

1.1. Product identifier

VPW 110

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

Use of the substance/mixture

Aerosol

Lubricant, lubricants and release products

Uses advised against

Any non-intended use.

1.3. Details of the supplier of the safety data sheet

| | | |
|-------------------------|--|---|
| Company name: | Meusburger Georg GmbH & Co KG | |
| Street: | Kesselstrasse 42 | |
| Place: | A-6960 Wolfurt | |
| Telephone: | +43 5574 6706-0 | Telefax: +43 5574 6706-12 |
| e-mail: | office@meusburger.com | |
| Internet: | www.meusburger.com | |
| Responsible Department: | Dr. Gans-Eichler Chemieberatung GmbH Otto-Hahn-Str. 36 D-48161 Muenster | e-mail: info@tge-consult.de Tel.: +49 2534 41594-0 www.tge-consult.de |

1.4. Emergency telephone number:

Poison Information Center Mainz, Germany, Tel: +49(0)6131/19240

Further Information

Safety Data Sheet according to UK-REACH Regulation

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Aerosol 1; H222-H229

Asp. Tox. 1; H304

Skin Irrit. 2; H315

STOT SE 3; H336

Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Hazard components for labelling

Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclics, <5% n-hexane

Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha

Signal word: Danger

Safety Data Sheet

according to UK REACH Regulation

Page 2 of 18

Print date: 13.03.2023

Revision date: 07.03.2023

VPW 110

Pictograms:



Hazard statements

| | |
|------|--|
| H222 | Extremely flammable aerosol. |
| H229 | Pressurised container: May burst if heated. |
| H315 | Causes skin irritation. |
| H336 | May cause drowsiness or dizziness. |
| H411 | Toxic 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. |
| P211 | Do not spray on an open flame or other ignition source. |
| P251 | Do not pierce or burn, even after use. |
| P273 | Avoid release to the environment. |
| P391 | Collect spillage. |
| P410+P412 | Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. |

Special labelling of certain mixtures

| | |
|--------|--|
| EUH208 | Contains Reaction products of benzenesulfonic acid, mono-C20-24 (even)-sec-alkyl derivs. para-, calcium salts. May produce an allergic reaction. |
|--------|--|

2.3. Other hazards

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.
The substances in the mixture (> 0.1%) do not meet the PBT/vPvB criteria according to UK REACH.
This product does not contain a substance (> 0.1 %) that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

| CAS No EC No REACH No Index No | Chemical name | Quantity |
|---|---|------------|
| | GHS Classification | |
| 921-024-6 01-2119475514-35 | Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclics, <5% n-hexane | 50 - 100 % |
| | Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H315 H336 H304 H411 | |
| 64742-49-0 | Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha | 10 - <25 % |

Safety Data Sheet

according to UK REACH Regulation

Page 3 of 18

Print date: 13.03.2023

Revision date: 07.03.2023

VPW 110

| | | |
|---|--|--------------|
| 265-151-9 01-2119475133-43 649-328-00-1 | Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H315 H336 H304 H411 | |
| 111-76-2 203-905-0 01-2119475108-36 603-014-00-0 | 2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve Acute Tox. 3, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2; H331 H302 H315 H319 | 2,5 - <10 % |
| 947-519-7 01-2120765489-36 | Reaction products of benzenesulfonic acid, mono-C20-24 (even) -sec-alkyl derivs. para-, calcium salts Skin Sens. 1B; H317 | >0,1 - 0,5 % |

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

| CAS No | EC No | Chemical name | Quantity |
|------------|-----------|--|--------------|
| | | Specific Conc. Limits, M-factors and ATE | |
| | 921-024-6 | Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclics, <5% n-hexane | 50 - 100 % |
| | | inhalation: LC50 = > 25,2 mg/l (vapours); dermal: LD50 = >2000 mg/kg; oral: LD50 = >2000 mg/kg | |
| 64742-49-0 | 265-151-9 | Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha | 10 - <25 % |
| | | inhalation: LC50 = >5,0 mg/l (vapours); dermal: LD50 = >2000 mg/kg; oral: LD50 = >5000 mg/kg | |
| 111-76-2 | 203-905-0 | 2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve | 2,5 - <10 % |
| | | inhalation: ATE 3 mg/l (vapours); dermal: LD50 = > 2000 mg/kg; oral: ATE 1200 mg/kg | |
| | 947-519-7 | Reaction products of benzenesulfonic acid, mono-C20-24 (even)-sec-alkyl derivs. para-, calcium salts | >0,1 - 0,5 % |
| | | dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 10000 - < 20000 mg/kg Skin Sens. 1B; H317: >= 10 - 100 | |

Further Information

Product does not contain listed SVHC substances > 0.1 % according to UK REACH.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of respiratory tract irritation, consult a physician.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, seek medical treatment.

Safety Data Sheet

according to UK REACH Regulation

Page 4 of 18

Print date: 13.03.2023

Revision date: 07.03.2023

VPW 110

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

If swallowed, immediately drink: Water. Never give anything by mouth to an unconscious person or a person with cramps. Do NOT induce vomiting. Caution if victim vomits: Risk of aspiration! Call a physician immediately.

4.2. Most important symptoms and effects, both acute and delayed

No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂). Dry extinguishing powder. Alcohol resistant foam. Atomized water.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Combustible. Vapours may form explosive mixtures with air. Can be released in case of fire: Carbon dioxide (CO₂). Carbon monoxide (CO).

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains. In case of fire and/or explosion do not breathe fumes.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Ventilate affected area. Remove all sources of ignition. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes.

For non-emergency personnel

Wear personal protection equipment (refer to section 8).

For emergency responders

Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Explosion hazard. Eliminate leaks immediately. Prevent spread over a wide area (e.g. by containment or oil barriers). In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Safety Data Sheet

according to UK REACH Regulation

Page 5 of 18

Print date: 13.03.2023

Revision date: 07.03.2023

VPW 110

For containment

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
Treat the recovered material as prescribed in the section on waste disposal.

For cleaning up

Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Use only in well-ventilated areas. Take precautionary measures against static discharges. Do not spray on naked flames or any incandescent material. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches.
Wear suitable protective clothing. (See section 8.)

Advice on protection against fire and explosion

Keep away from sources of ignition. - No smoking. Heating causes rise in pressure with risk of bursting.

Advice on general occupational hygiene

Always close containers tightly after the removal of product.
Do not eat, drink, smoke or sneeze at the workplace.
Wash hands before breaks and after work.

Further information on handling

General protection and hygiene measures: refer to chapter 8

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Keep away from sources of ignition. - No smoking.
Provide adequate ventilation.

Hints on joint storage

Do not store together with: Explosives. Flammable solids. Pyrophoric liquids and solids. Self-heating substances and mixtures. Substances and mixtures which, in contact with water, emit flammable gases. Oxidizing liquids. Oxidizing solids. Self-reactive substances and mixtures. Organic peroxides. Radioactive substances.
Infectious substances.

Further information on storage conditions

Recommended storage temperature: 10-30 °C. Do not store at temperatures over: 50 °C
Note: Storage requirements for flammable aerosols.

7.3. Specific end use(s)

See section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Safety Data Sheet

according to UK REACH Regulation

Page 6 of 18

Print date: 13.03.2023

Revision date: 07.03.2023

VPW 110

Exposure limits (EH40)

| CAS No | Substance | ppm | mg/m ³ | fibres/ml | Category | Origin |
|----------|-----------------|-----|-------------------|-----------|---------------|--------|
| 111-76-2 | 2-Butoxyethanol | 25 | 123 | | TWA (8 h) | WEL |
| | | 50 | 246 | | STEL (15 min) | WEL |
| 106-97-8 | Butane | 600 | 1450 | | TWA (8 h) | WEL |
| | | 750 | 1810 | | STEL (15 min) | WEL |

Biological Monitoring Guidance Values (EH40)

| CAS No | Substance | Parameter | Value | Test material | Sampling time |
|----------|-----------------|--------------------------------|--------------|---------------|---------------|
| 111-76-2 | 2-Butoxyethanol | butoxyacetic acid (creatinine) | 240 mmol/mol | urine | Post shift |

DNEL/DMEL values

| CAS No | Substance | DNEL type | Exposure route | Effect | Value |
|------------|---|--------------------------|----------------|----------|---------------------------|
| | Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclics, <5% n-hexane | | | | |
| | | Worker DNEL, long-term | inhalation | systemic | 2 035 mg/m ³ |
| | | Worker DNEL, long-term | dermal | systemic | 773 mg/kg bw/day |
| | | Consumer DNEL, long-term | inhalation | systemic | 608 mg/m ³ |
| | | Consumer DNEL, long-term | dermal | systemic | 699 mg/kg bw/day |
| | | Consumer DNEL, long-term | oral | systemic | 699 mg/kg bw/day |
| 64742-49-0 | Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha | | | | |
| | | Worker DNEL, acute | inhalation | systemic | 1286,4 mg/m ³ |
| | | Worker DNEL, long-term | inhalation | local | 837,5 mg/m ³ |
| | | Worker DNEL, acute | inhalation | local | 1066,67 mg/m ³ |
| | | Consumer DNEL, acute | inhalation | systemic | 1152 mg/m ³ |
| | | Consumer DNEL, long-term | inhalation | local | 178,57 mg/m ³ |
| | | Consumer DNEL, acute | inhalation | local | 640 mg/m ³ |
| 111-76-2 | 2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve | | | | |
| | | Worker DNEL, long-term | inhalation | systemic | 98 mg/m ³ |
| | | Worker DNEL, acute | inhalation | systemic | 1091 mg/m ³ |
| | | Worker DNEL, acute | inhalation | local | 246 mg/m ³ |
| | | Worker DNEL, long-term | dermal | systemic | 125 mg/kg bw/day |
| | | Worker DNEL, acute | dermal | systemic | 89 mg/kg bw/day |
| | | Consumer DNEL, long-term | oral | systemic | 6,3 mg/kg bw/day |
| | | Consumer DNEL, acute | oral | systemic | 26,7 mg/kg bw/day |
| | | Consumer DNEL, long-term | inhalation | systemic | 59 mg/m ³ |
| | | Consumer DNEL, acute | inhalation | systemic | 426 mg/m ³ |
| | | Consumer DNEL, acute | inhalation | local | 147 mg/m ³ |

Safety Data Sheet

according to UK REACH Regulation

Page 7 of 18

Print date: 13.03.2023

Revision date: 07.03.2023

VPW 110

| | | | |
|--|------------|----------|--------------------------|
| Consumer DNEL, long-term | dermal | systemic | 75 mg/kg bw/day |
| Consumer DNEL, acute | dermal | systemic | 89 mg/kg bw/day |
| Reaction products of benzenesulfonic acid, mono-C20-24 (even)-sec-alkyl derivs. para-, calcium salts | | | |
| Worker DNEL, long-term | inhalation | systemic | 17,63 mg/m ³ |
| Worker DNEL, long-term | dermal | systemic | 25 mg/kg bw/day |
| Worker DNEL, long-term | dermal | local | 1,05 mg/cm ² |
| Consumer DNEL, long-term | inhalation | systemic | 4,35 mg/m ³ |
| Consumer DNEL, long-term | dermal | systemic | 12,5 mg/kg bw/day |
| Consumer DNEL, long-term | dermal | local | 0,526 mg/cm ² |
| Consumer DNEL, long-term | oral | systemic | 2,5 mg/kg bw/day |

PNEC values

| CAS No | Substance | |
|--|---|--------------|
| | | Value |
| 111-76-2 | 2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve | |
| Freshwater | | 8,8 mg/l |
| Freshwater (intermittent releases) | | 26,4 mg/l |
| Marine water | | 0,88 mg/l |
| Freshwater sediment | | 34,6 mg/kg |
| Marine sediment | | 3,46 mg/kg |
| Secondary poisoning | | 20 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 463 mg/l |
| Soil | | 2,33 mg/kg |
| Reaction products of benzenesulfonic acid, mono-C20-24 (even)-sec-alkyl derivs. para-, calcium salts | | |
| Freshwater | | 0,1 mg/l |
| Freshwater (intermittent releases) | | 1 mg/l |
| Marine water | | 0,1 mg/l |
| Freshwater sediment | | 166,32 mg/kg |
| Marine sediment | | 166,32 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 1000 mg/l |
| Soil | | 33,12 mg/kg |

8.2. Exposure controls



Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

Safety Data Sheet

according to UK REACH Regulation

Page 8 of 18

Print date: 13.03.2023

Revision date: 07.03.2023

VPW 110

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses; chemical goggles (if splashing is possible).

Hand protection

In case of prolonged or frequently repeated skin contact: Wear suitable gloves.

Suitable material:

Butyl rubber. (0,5 mm)

Breakthrough time >480 min

Penetration time (maximum wearing period): >160 min

The selected protective gloves have to satisfy the specifications of the Personal Protective Equipment at Work (Amendment) Regulations 2022 and the standard EN ISO 374.

Check leak tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well.

Skin protection

Protective clothing.

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500 (D).

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at:

Exceeding exposure limit values

Insufficient ventilation

Suitable respiratory protective equipment: Protective respiration apparatus not using surrounding air (breathing apparatus) (DIN EN 133).

Use only respiratory protection equipment with CE-symbol including four digit test number.

Thermal hazards

No special precautionary measures are necessary.

Environmental exposure controls

Do not allow uncontrolled discharge of product into the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | | |
|---|----------------|----------------|
| Physical state: | Aerosol | |
| Colour: | cream | |
| Odour: | characteristic | |
| Odour threshold: | not determined | |
| Melting point/freezing point: | | not determined |
| Boiling point or initial boiling point and boiling range: | | not determined |
| Flammability: | | not determined |
| Lower explosion limits: | | 6 vol. % |
| Upper explosion limits: | | 10,9 vol. % |
| Flash point: | | -60 °C |
| Auto-ignition temperature: | | not determined |
| Decomposition temperature: | | not determined |
| pH-Value: | | not determined |
| Viscosity / kinematic: | | not determined |

Safety Data Sheet

according to UK REACH Regulation

Page 9 of 18

Print date: 13.03.2023

Revision date: 07.03.2023

VPW 110

| | |
|--|------------------------|
| Water solubility: | insoluble |
| Solubility in other solvents | |
| not determined | |
| Dissolution rate: | not relevant |
| Partition coefficient n-octanol/water: | not determined |
| Dispersion stability: | not relevant |
| Vapour pressure: | 2900 hPa |
| (at 20 °C) | |
| Density (at 20 °C): | 0,65 g/cm ³ |
| Bulk density: | not determined |
| Relative vapour density: | not determined |
| Particle characteristics: | not determined |

9.2. Other information

Information with regard to physical hazard classes

Explosive properties

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

Sustaining combustion:

No data available

Self-ignition temperature

Solid:

not relevant

Gas:

not determined

Oxidizing properties

none

Other safety characteristics

Evaporation rate:

not determined

Solvent separation test:

not determined

Solvent content:

not determined

Solid content:

not determined

Sublimation point:

not determined

Softening point:

not determined

Pour point:

not determined

Viscosity / dynamic:

not determined

Flow time:

not determined

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

Refer to chapter 10.5.

10.4. Conditions to avoid

Keep away from heat.

Ignition hazard.

Heating causes rise in pressure with risk of bursting.

Safety Data Sheet

according to UK REACH Regulation

Page 10 of 18

Print date: 13.03.2023

Revision date: 07.03.2023

VPW 110

10.5. Incompatible materials

Oxidizing agents, strong.

10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

Further information

In use, may form flammable/explosive vapour-air mixture.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Toxicokinetics, metabolism and distribution

No information available.

Acute toxicity

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

ATEmix calculated

ATE (oral) 45600,0 mg/kg; ATE (inhalation vapour) 114,00 mg/l

| CAS No | Chemical name | | | | |
|------------|--|------------------------------|---------|---------------------|--------------------|
| | Exposure route | Dose | Species | Source | Method |
| | Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclics, <5% n-hexane | | | | |
| | oral | LD50 >2000 mg/kg | Rat. | ECHA dossier | read-across |
| | dermal | LD50 >2000 mg/kg | Rabbit | ECHA dossier | read-across |
| | inhalation (4 h) vapour | LC50 > 25,2 mg/l | Rat. | ECHA dossier | OECD 403 |
| 64742-49-0 | Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha | | | | |
| | oral | LD50 >5000 mg/kg | Rat | ECHA dossier | OECD 401 |
| | dermal | LD50 >2000 mg/kg | Rabbit | ECHA dossier | OECD 402 |
| | inhalation (4 h) vapour | LC50 >5,0 mg/l | Rat | ECHA dossier | OECD 403 |
| 111-76-2 | 2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve | | | | |
| | oral | ATE 1200 mg/kg | | | |
| | dermal | LD50 > 2000 mg/kg | Rat | Study report (1993) | OECD Guideline 402 |
| | inhalation vapour | ATE 3 mg/l | | | |
| | Reaction products of benzenesulfonic acid, mono-C20-24 (even)-sec-alkyl derivs. para-, calcium salts | | | | |
| | oral | LD50 > 10000 - < 20000 mg/kg | Rat | ECHA Dossier | |
| | dermal | LD50 > 2000 mg/kg | Rat | ECHA Dossier | OECD Guideline 402 |

Irritation and corrosivity

Causes skin irritation.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

Safety Data Sheet

according to UK REACH Regulation

Page 11 of 18

Print date: 13.03.2023

Revision date: 07.03.2023

VPW 110

Sensitising effects

Contains Reaction products of benzenesulfonic acid, mono-C20-24 (even)-sec-alkyl derivs. para-, calcium salts. May produce an allergic reaction.

Carcinogenic/mutagenic/toxic effects for reproduction

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

Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:

In-vitro mutagenicity:

Method: -

Result: negative. Literature information: ECHA dossier

Reproductive toxicity: (inhalation.)

Method: OECD Guideline 416 (Two-Generation Reproduction Toxicity Study)

Species: Rat

Result: NOAEL = 20000 mg/m³; Literature information: ECHA dossier

Developmental toxicity/teratogenicity: (inhalation.)

Method: OECD Guideline 414 (Prenatal Developmental Toxicity Study)

Species: Rabbit

Exposure duration: 20 d.

Result: NOAEL = 23900 mg/m³; Literature information: ECHA dossier

Carcinogenicity:

Method: -

Species: Mouse

Exposure duration: approx. 2 years

Result: negative. Literature information: ECHA dossier

STOT-single exposure

May cause drowsiness or dizziness. (Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclics, <5% n-hexane; Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha)

STOT-repeated exposure

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

Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclics, <5% n-hexane:

Subacute inhalative toxicity:

Method: -

Species: Rat

Exposure duration: 3 d.

Result: NOAEC = 4200 mg/m³.

Literature information: ECHA dossier

Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:

Subchronic inhalation toxicity:

Method: OECD Guideline 453 (Combined Chronic Toxicity/Carcinogenicity Studies)

Species: Mouse

Exposure duration: 2 years

Result: NOAEC = 1402 mg/m³

Literature information: ECHA dossier

Subacute oral toxicity:

Method: -

Species: Rat

Exposure duration: 28 d

Results: NOAEL < 500 mg/kg

Literature information: ECHA dossier

Safety Data Sheet

according to UK REACH Regulation

Page 12 of 18

Print date: 13.03.2023

Revision date: 07.03.2023

VPW 110

Aspiration hazard

May be fatal if swallowed and enters airways.

Specific effects in experiment on an animal

No information available.

11.2. Information on other hazards

Endocrine disrupting properties

This product does not contain a substance (> 0.1 %) that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

Other information

No data available.

SECTION 12: Ecological information

12.1. Toxicity

| CAS No | Chemical name | | | | | |
|------------|--|------------------|-----------|---------------------------------|-------------------------------------|--------------------|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method |
| | Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclics, <5% n-hexane | | | | | |
| | Acute fish toxicity | LC50 11,4 mg/l | 96 h | Oncorhynchus mykiss | ECHA dossier | OECD 203 |
| | Acute algae toxicity | ErC50 30 mg/l | 72 h | Pseudokirchneriella subcapitata | ECHA dossier | OECD 201 |
| | Acute crustacea toxicity | EC50 3 mg/l | 48 h | Daphnia magna | ECHA dossier | OECD 202 |
| 64742-49-0 | Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha | | | | | |
| | Acute fish toxicity | LL50 > 1-10 mg/l | 96 h | Pimephales promelas | ECHA dossier | |
| | Acute algae toxicity | ErC50 3,1 mg/l | 72 h | Pseudokirchnerella subcapitata | ECHA dossier | |
| | Acute crustacea toxicity | EC50 4,5 mg/l | 48 h | Daphnia Magna | ECHA dossier | |
| | Crustacea toxicity | NOEC 2,6 mg/l | 21 d | Daphnia Magna | ECHA dossier | OECD 211 |
| 111-76-2 | 2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve | | | | | |
| | Acute fish toxicity | LC50 1474 mg/l | 96 h | Oncorhynchus mykiss | Toxicol Mech Meth 12, 255-63 (2002) | OECD Guideline 203 |
| | Acute algae toxicity | ErC50 911 mg/l | 72 h | Pseudokirchneriella subcapitata | Toxicol Mech Meth 12, 255-63 (2002) | OECD Guideline 201 |
| | Acute crustacea toxicity | EC50 1550 mg/l | 48 h | Daphnia magna | Toxicol Mech Meth 12, 255-63 (2002) | OECD Guideline 202 |
| | Fish toxicity | NOEC > 100 mg/l | 21 d | Danio rerio | Toxicol Mech Meth 12, 255-63 (2002) | OECD Guideline 204 |
| | Algae toxicity | NOEC 88 mg/l | 3 d | Pseudokirchneriella subcapitata | ECHA Dossier | |
| | Crustacea toxicity | NOEC 100 mg/l | 21 d | Daphnia magna | Toxicol Mech Meth 12, 255-63 (2002) | OECD Guideline 211 |
| | Reaction products of benzenesulfonic acid, mono-C20-24 (even)-sec-alkyl derivs. para-, calcium salts | | | | | |

Safety Data Sheet

according to UK REACH Regulation

Page 13 of 18

Print date: 13.03.2023

Revision date: 07.03.2023

VPW 110

| | | | | | | |
|--------------------------|----------------|---------|------|---|----------------------------------|-----------------------|
| Acute fish toxicity | LL50 mg/l | > 100 | 96 h | Oncorhynchus mykiss | REACH Registration Dossier | OECD Guideline 203 |
| Acute algae toxicity | ErC50 mg/l | > 100 | 72 h | Desmodesmus subspicatus | ECHA Dossier | OECD Guideline 201 |
| Acute crustacea toxicity | EL50 mg/l | > 100 | 48 h | Daphnia magna | ECHA Dossier | OECD Guideline 202 |
| Acute bacteria toxicity | (EC50 mg/l) | > 10000 | 3 h | activated sludge of a predominantly domestic sewage | ECHA Dossier | OECD Guideline 209 |

12.2. Persistence and degradability

| CAS No | Chemical name | | | |
|------------|--|-------|----|--------------|
| | Method | Value | d | Source |
| | Evaluation | | | |
| | Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclics, <5% n-hexane | | | |
| | OECD 301F / ISO 9408 / EEC 92/69 annex V, C.4-D | 98% | 28 | ECHA dossier |
| | Easily biodegradable (concerning to the criteria of the OECD) | | | |
| 64742-49-0 | Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha | | | |
| | OECD 301F / ISO 9408 / EEC 92/69 annex V, C.4-D | >70 | 28 | ECHA dossier |
| | Easily biodegradable (concerning to the criteria of the OECD) | | | |
| 111-76-2 | 2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve | | | |
| | OECD 301B / ISO 9439 / EEC 92/69 annex V, C.4-C | 90,4% | 28 | ECHA Dossier |
| | Easily biodegradable (concerning to the criteria of the OECD) | | | |
| | Reaction products of benzenesulfonic acid, mono-C20-24 (even)-sec-alkyl derivs. para-, calcium salts | | | |
| | OECD Guideline 301 D | 8% | 28 | ECHA Dossier |
| | Not easily bio-degradable (according to OECD-criteria). | | | |

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|------------|--|---------|
| | Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclics, <5% n-hexane | 2,89 |
| 64742-49-0 | Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha | >3 |
| 111-76-2 | 2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve | 0,81 |
| | Reaction products of benzenesulfonic acid, mono-C20-24 (even)-sec-alkyl derivs. para-, calcium salts | >= 5,38 |

BCF

| CAS No | Chemical name | BCF | Species | Source |
|--------|--|-------|---------|--------------|
| | Reaction products of benzenesulfonic acid, mono-C20-24 (even)-sec-alkyl derivs. para-, calcium salts | 27600 | Fish | ECHA Dossier |

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

The aforementioned statement applies to substances contained in the product with a minimum content of 0.1 %.

Safety Data Sheet

according to UK REACH Regulation

Page 14 of 18

Print date: 13.03.2023

Revision date: 07.03.2023

VPW 110

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

The aforementioned statement applies to substances contained in the product with a minimum content of 0.1 %.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Dispose of waste according to applicable legislation.

Non-contaminated packages may be recycled.

According to (EWC) European Waste Catalogue, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process. Control report for waste code/ waste marking according to (EWC) European Waste Catalogue:

List of Wastes Code - residues/unused products

140603 WASTE ORGANIC SOLVENTS, REFRIGERANTS AND PROPELLANTS (EXCEPT 07 AND 08); waste organic solvents, refrigerants and foam/aerosol propellants; other solvents and solvent mixtures; hazardous waste

List of Wastes Code - used product

140603 WASTE ORGANIC SOLVENTS, REFRIGERANTS AND PROPELLANTS (EXCEPT 07 AND 08); waste organic solvents, refrigerants and foam/aerosol propellants; other solvents and solvent mixtures; hazardous waste

List of Wastes Code - contaminated packaging

150104 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); metallic packaging

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

| | |
|---|----------|
| <u>14.1. UN number or ID number:</u> | UN 1950 |
| <u>14.2. UN proper shipping name:</u> | AEROSOLS |
| <u>14.3. Transport hazard class(es):</u> | 2 |
| <u>14.4. Packing group:</u> | - |
| Hazard label: | 2.1 |



| | |
|----------------------|-----------------|
| Classification code: | 5F |
| Special Provisions: | 190 327 344 625 |
| Limited quantity: | 1 L |
| Excepted quantity: | E0 |
| Transport category: | 2 |

Safety Data Sheet

according to UK REACH Regulation

Page 15 of 18

Print date: 13.03.2023

Revision date: 07.03.2023

VPW 110

Tunnel restriction code: D

Inland waterways transport (ADN)

14.1. UN number or ID number: UN 1950
14.2. UN proper shipping name: AEROSOLS
14.3. Transport hazard class(es): 2
14.4. Packing group: -
 Hazard label: 2.1



Classification code: 5F
 Special Provisions: 190 327 344 625
 Limited quantity: 1 L
 Excepted quantity: E0

Marine transport (IMDG)

14.1. UN number or ID number: UN 1950
14.2. UN proper shipping name: AEROSOLS
14.3. Transport hazard class(es): 2.1
14.4. Packing group: -
 Hazard label: 2.1



Marine pollutant: YES
 Special Provisions: 63, 190, 277, 327, 344, 381, 959
 Limited quantity: 1000 mL
 Excepted quantity: E0
 EmS: F-D, S-U

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 1950
14.2. UN proper shipping name: AEROSOLS, flammable
14.3. Transport hazard class(es): 2.1
14.4. Packing group: -
 Hazard label: 2.1



Special Provisions: A145 A167 A802
 Limited quantity Passenger: 30 kg G
 Passenger LQ: Y203
 Excepted quantity: E0
 IATA-packing instructions - Passenger: 203
 IATA-max. quantity - Passenger: 75 kg
 IATA-packing instructions - Cargo: 203
 IATA-max. quantity - Cargo: 150 kg

14.5. Environmental hazards

Safety Data Sheet

according to UK REACH Regulation

Page 16 of 18

Print date: 13.03.2023

Revision date: 07.03.2023

VPW 110

ENVIRONMENTALLY HAZARDOUS: Yes



Danger releasing substance: Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclics, <5% n-hexane Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha

14.6. Special precautions for user

Refer to section 6 - 8

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 28, Entry 29, Entry 40, Entry 75

2010/75/EU (VOC): not determined

2004/42/EC (VOC): not determined

Information according to 2012/18/EU (SEVESO III): P3a FLAMMABLE AEROSOLS

Additional information: E2

Additional information

Safety Data Sheet according to UK-REACH Regulation

UK Aerosols Regulation

UK REACH Appendix XVII, No (mixture): 3, 40

The mixture is classified as hazardous according to GHS (GB CLP).

National regulatory information

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

Water hazard class (D): 2 - obviously hazardous to water

15.2. Chemical safety assessment

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

Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclics, <5% n-hexane

Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha

2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve

SECTION 16: Other information

Changes

Rev. 1,0; Initial release 14.05.2018

Rev. 2.0; Revision 06.04.2020 Changes in chapter: 2-16

Rev. 3.0; Revision 07.03.2023 Changes in chapter: 2-16

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

CAS: Chemical Abstracts Service

Safety Data Sheet

according to UK REACH Regulation

Page 17 of 18

Print date: 13.03.2023

Revision date: 07.03.2023

VPW 110

CLP: Classification, Labeling, Packaging
 DNEL: Derived No Effect Level
 d: day(s)
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 ECHA: European Chemicals Agency
 ECOSAR: Ecological Structure Activity Relationships
 EWC: European Waste Catalogue
 IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
 ICAO: International Civil Aviation Organization
 ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals
 GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)
 OECD: Organisation for Economic Co-operation and Development
 PNEC: Predicted No Effect Concentration
 PBT: Persistent, bio-cumulative, toxic
 QSAR: Quantitative Structure-Activity Relationship
 RID: Regulation Concerning the International Transport of Dangerous Goods by Rail
 SVHC: Substance of Very High Concern
 TRGS: Technische Regeln für Gefahrstoffe
 UN: United Nations
 vPvB: very persistent and very bio-cumulative
 VOC: Volatile Organic Compounds
 w: week(s)

Classification for mixtures and used evaluation method according to GB CLP Regulation

| Classification | Classification procedure |
|-------------------------|-------------------------------|
| Aerosol 1; H222-H229 | On basis of test data |
| Asp. Tox. 1; H304 | Calculation method |
| Skin Irrit. 2; H315 | Bridging principle "Aerosols" |
| STOT SE 3; H336 | Bridging principle "Aerosols" |
| Aquatic Chronic 2; H411 | Calculation method |

Relevant H and EUH statements (number and full text)

| | |
|--------|--|
| H222 | Extremely flammable aerosol. |
| H225 | Highly flammable liquid and vapour. |
| H229 | Pressurised container: May burst if heated. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H331 | Toxic if inhaled. |
| H336 | May cause drowsiness or dizziness. |
| H411 | Toxic to aquatic life with long lasting effects. |
| EUH208 | Contains Reaction products of benzenesulfonic acid, mono-C20-24 (even)-sec-alkyl derivs. para-, calcium salts. May produce an allergic reaction. |

Safety Data Sheet

according to UK REACH Regulation

Page 18 of 18

Print date: 13.03.2023

Revision date: 07.03.2023

VPW 110

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)