



rbs Bluewash Equipment Cleaner

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Issue date: 12/04/2016 Revision date: 18/11/2024 Supersedes version of: 12/04/2016 Version: 1.1

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

1.1. Product identifier

Product form : Mixture
Product name : rbs Bluewash Equipment Cleaner
Product code : 003BW
Product group : End product

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

Relevant identified uses

Main use category : Industrial use
Use of the substance/mixture : Equipment Cleaner
Use of the substance/mixture : Cleaning/washing agents and additives

1.3. Details of the supplier of the safety data sheet

Distributor

Resapol Ltd
Unit D4, Moss Industrial Estate
Leigh, Lancashire WN7 3PT
United Kingdom
T +44 (0) 800 083 1942
sales@resapol.com - www.resapol.com

1.4. Emergency telephone number

Emergency number : +44 (0) 1942 609001 (office hours only)

| Country/Area | Organisation/Company | Address | Emergency number | Comment |
|----------------|--|--|--|------------------|
| Ireland | National Poisons Information Centre Beaumont Hospital | PO Box 1297 Beaumont Road 9 Dublin | +353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7) | |
| United Kingdom | NHS 111/NHS 24/NHS Direct | | 111 0845 4647 | or call a doctor |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flammable liquids, Category 2 H225
Acute toxicity (inhalation:dust,mist) Category 4 H332
Skin corrosion/irritation, Category 2 H315
Serious eye damage/eye irritation, Category 2 H319
Reproductive toxicity, Category 2 H361d
Specific target organ toxicity – Single exposure, Category 2 H371
Specific target organ toxicity – Single exposure, Category 3, H336
Narcosis
Specific target organ toxicity – Repeated exposure, Category 2 H373
Aspiration hazard, Category 1 H304
Hazardous to the aquatic environment – Chronic Hazard, H411
Category 2

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

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Adverse physicochemical, human health and environmental effects

Highly flammable liquid and vapour. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. Causes damage to organs. May cause drowsiness or dizziness. Harmful if inhaled. Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May be fatal if swallowed and enters airways. Toxic to aquatic life with long lasting effects.

2.2. Label elements

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

Hazard pictograms (CLP)



Signal word (CLP)

: Danger

Contains

: Xylene; Toluene; ethyl acetate

Hazard statements (CLP)

: H225 - Highly flammable liquid and vapour.
H304 - May be fatal if swallowed and enters airways.
H315 - Causes skin irritation.
H319 - Causes serious eye irritation.
H332 - Harmful if inhaled.
H336 - May cause drowsiness or dizziness.
H361d - Suspected of damaging the unborn child.
H371 - May cause damage to organs (unspecified) (route of exposure unknown).
H373 - May cause damage to organs (unknown) through prolonged or repeated exposure (route of exposure unknown).
H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements (CLP)

: P240 - Ground and bond container and receiving equipment.
P241 - Use explosion-proof electrical, lighting, ventilating equipment.
P280 - Wear eye protection, protective clothing, protective gloves.
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER, a doctor.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3. Other hazards

Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---------|---|---------|--|
| Acetone | CAS-No.: 67-64-1 EC-No.: 200-662-2 EC Index-No.: 606-001-00-8 | 10 – 30 | Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 |
| Xylene | CAS-No.: 1330-20-7 EC-No.: 215-535-7 | 10 – 30 | Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Aquatic Chronic 2, H411 |

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| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|----------------------|--|---------|--|
| Toluene | CAS-No.: 108-88-3 EC-No.: 203-625-9 EC Index-No.: 601-021-00-3 | 10 – 30 | Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 |
| Propan-2-ol | CAS-No.: 67-63-0 EC-No.: 200-661-7 EC Index-No.: 603-117-00-0 | 5 – 10 | Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 |
| ethyl acetate | CAS-No.: 141-78-6 EC-No.: 205-500-4 EC Index-No.: 607-022-00-5 | 5 – 10 | Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 |
| Butan-2-ol | CAS-No.: 78-92-2 EC-No.: 201-158-5 | 5 – 10 | Flam. Liq. 3, H226 Eye Irrit. 2, H319 STOT SE 3, H336 STOT SE 3, H335 |
| Methyl acetate | CAS-No.: 79-20-9 EC-No.: 201-185-2 | 5 – 10 | Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 |
| 4-methylpentan-2-one | CAS-No.: 108-10-1 EC-No.: 203-550-1 | 5 – 10 | Flam. Liq. 2, H225 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H336 |
| Butanone | CAS-No.: 78-93-3 EC-No.: 201-159-0 | 5 – 10 | Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 |
| N-butyl acetate | CAS-No.: 123-86-4 EC-No.: 204-658-1 | 5 – 10 | Flam. Liq. 3, H226 STOT SE 3, H336 Aquatic Chronic 3, H412 |
| Isopropyl acetate | CAS-No.: 108-21-4 EC-No.: 203-561-1 | 5 – 10 | Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 |
| methanol | CAS-No.: 67-56-1 EC-No.: 200-659-6 EC Index-No.: 603-001-00-X | 2.5 – 5 | Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Skin Corr. 1, H314 Eye Dam. 1, H318 STOT SE 1, H370 |
| Tetrahydrofuran | CAS-No.: 109-99-9 EC-No.: 203-726-8 | 0.5 – 1 | Flam. Liq. 2, H225 Acute Tox. 1 (Oral), H300 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H335 |

Specific concentration limits:

| Name | Product identifier | Specific concentration limits (%) |
|----------|---|--|
| methanol | CAS-No.: 67-56-1 EC-No.: 200-659-6 EC Index-No.: 603-001-00-X | (3 ≤ C < 10) STOT SE 2; H371 (10 ≤ C ≤ 100) STOT SE 1; H370 |

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

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---------------------------------------|--|
| First-aid measures general | : Call a physician immediately. |
| First-aid measures after inhalation | : Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell. |
| First-aid measures after skin contact | : Rinse skin with water/shower. Take off immediately all contaminated clothing. If skin irritation occurs: Get medical advice/attention. |
| First-aid measures after eye contact | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. |
| First-aid measures after ingestion | : Rinse mouth. Do not induce vomiting. Call a physician immediately. |
| First-aid measures for first aider | : First aid workers will be equipped with suitable personal protective equipment. |

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

| | |
|-------------------------------------|---|
| Symptoms/effects | : May cause drowsiness or dizziness. |
| Symptoms/effects after inhalation | : Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard. |
| Symptoms/effects after skin contact | : Irritation. |
| Symptoms/effects after eye contact | : Eye irritation. |
| Symptoms/effects after ingestion | : Risk of lung oedema. |

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 | : Dry powder. Foam. Carbon dioxide. |
| Unsuitable extinguishing media | : Do not use a heavy water stream. |

5.2. Special hazards arising from the substance or mixture

| | |
|--|--|
| Fire hazard | : Extremely flammable liquid and vapour. |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. |

5.3. Advice for firefighters

| | |
|--------------------------------|---|
| Precautionary measures fire | : Evacuate area. |
| Firefighting instructions | : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

| | |
|------------------|---|
| General measures | : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage. |
|------------------|---|

For non-emergency personnel

| | |
|----------------------|--|
| Protective equipment | : Wear recommended personal protective equipment. |
| Emergency procedures | : Ventilate spillage area. No open flames, no sparks, and no smoking. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. |

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For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
- Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

- For containment : Collect spillage. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.
- Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
- Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.
- Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust, fume, gas, mist, spray, vapours. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes.
- Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Ground/bond container and receiving equipment.
- Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.
- Packaging materials : Store always product in container of same material as original container.

7.3. Specific end use(s)

Washing and cleaning products (including solvent based products).

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure and biological limit values

| Acetone (67-64-1) | |
|---|---------------------------------------|
| United Kingdom - Occupational Exposure Limits | |
| Local name | Acetone |
| WEL TWA (OEL TWA) | 1210 mg/m ³ |
| | 500 ppm |
| WEL STEL (OEL STEL) | 3620 mg/m ³ |
| | 1500 ppm |
| Regulatory reference | EH40/2005 (Fourth edition, 2020). HSE |

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| Toluene (108-88-3) | |
|--|---|
| United Kingdom - Occupational Exposure Limits | |
| Local name | Toluene |
| WEL TWA (OEL TWA) | 191 mg/m ³ |
| | 50 ppm |
| WEL STEL (OEL STEL) | 384 mg/m ³ |
| | 100 ppm |
| Remark | Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity) |
| Regulatory reference | EH40/2005 (Fourth edition, 2020). HSE |
| Propan-2-ol (67-63-0) | |
| United Kingdom - Occupational Exposure Limits | |
| Local name | Propan-2-ol |
| WEL TWA (OEL TWA) | 999 mg/m ³ |
| | 400 ppm |
| WEL STEL (OEL STEL) | 1250 mg/m ³ |
| | 500 ppm |
| Regulatory reference | EH40/2005 (Fourth edition, 2020). HSE |
| ethyl acetate (141-78-6) | |
| United Kingdom - Occupational Exposure Limits | |
| Local name | Ethyl acetate |
| WEL TWA (OEL TWA) | 734 mg/m ³ |
| | 200 ppm |
| WEL STEL (OEL STEL) | 1468 mg/m ³ |
| | 400 ppm |
| Regulatory reference | EH40/2005 (Fourth edition, 2020). HSE |
| methanol (67-56-1) | |
| United Kingdom - Occupational Exposure Limits | |
| Local name | Methanol |
| WEL TWA (OEL TWA) | 266 mg/m ³ |
| | 200 ppm |
| WEL STEL (OEL STEL) | 333 mg/m ³ |
| | 250 ppm |
| Remark | Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity) |
| Regulatory reference | EH40/2005 (Fourth edition, 2020). HSE |

8.2. Exposure controls

Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

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Personal protection equipment

Personal protective equipment:

Wear recommended personal protective equipment.

Personal protective equipment symbol(s):



Eye and face protection

Eye protection:

Safety glasses

Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Protective gloves

Respiratory protection

Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|---------------------------------------|
| Physical state | : Liquid |
| Colour | : Colourless. |
| Odour | : characteristic. |
| Odour threshold | : Not available |
| Melting point | : Not applicable |
| Freezing point | : Not available |
| Boiling point | : 55 – 160 °C |
| Flammability | : Highly flammable liquid and vapour. |
| Lower explosion limit | : Not available |
| Upper explosion limit | : Not available |
| Flash point | : -20 °C |
| Auto-ignition temperature | : > 203 °C |
| Decomposition temperature | : Not available |
| pH | : 7 |
| Viscosity, kinematic | : Not available |
| Solubility | : Insoluble in water. |
| Partition coefficient n-octanol/water (Log Kow) | : Not available |
| Vapour pressure | : Not available |
| Vapour pressure at 50°C | : Not available |
| Density | : 0.8 – 0.9 g/cm ³ |
| Relative density | : Not available |
| Relative vapour density at 20°C | : Not available |
| Particle characteristics | : Not applicable |

9.2. Other information

Other safety characteristics

| | |
|-----------------|--|
| Miscibility | : < g/100ml |
| Redox potential | : > V |
| VOC content | : 2004/42/II(B), Cat A(i), content 850 g/L (limit 850 g/L) |

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SECTION 10: Stability and reactivity

10.1. Reactivity

Extremely flammable liquid and vapour.

10.2. Chemical stability

May form flammable vapour-air mixture.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition. No smoking.

10.5. Incompatible materials

Oxidizing agent.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified.
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Inhalation:dust,mist: Harmful if inhaled.

| rbs Bluewash Equipment Cleaner | |
|---------------------------------|--|
| ATE CLP (dust,mist) | 3.333 mg/l/4h |
| Acetone (67-64-1) | |
| LD50 oral rat | 5800 mg/kg Source: ECHA |
| LD50 dermal rabbit | > 7400 mg/kg Source: ECHA |
| LC50 Inhalation - Rat | 76 mg/l air Animal: rat, Animal sex: female, 95% CL: 65,2 - 88,4 |
| LC50 Inhalation - Rat (Vapours) | 76 mg/l Source: ECHA |
| Xylene (1330-20-7) | |
| LD50 dermal rabbit | 12126 mg/kg bodyweight Animal: rabbit, Animal sex: male |
| Toluene (108-88-3) | |
| LD50 oral rat | 5580 mg/kg Source: ECHA |
| LD50 dermal rabbit | > 5000 mg/kg Source: ECHA |
| LC50 Inhalation - Rat (Vapours) | > 20 mg/l Source: ECHA |
| Propan-2-ol (67-63-0) | |
| LD50 oral rat | 5840 mg/kg Source: ECHA |
| LD50 dermal rabbit | 12800 mg/kg Source: ECHA |
| ethyl acetate (141-78-6) | |
| LD50 oral rat | 11.3 ml/kg Source: ECHA |

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| ethyl acetate (141-78-6) | |
|--|---|
| LD50 oral | 4934 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 401 (Acute Oral Toxicity) |
| LD50 dermal rabbit | > 20000 mg/kg bodyweight Animal: rabbit, Animal sex: male |
| methanol (67-56-1) | |
| LD50 oral rat | 100 mg/kg Source: National Institute of Environmental Research NCIS |
| LD50 dermal rabbit | 300 mg/kg Source: ECHA |
| Butan-2-ol (78-92-2) | |
| LD50 dermal rat | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) |
| Methyl acetate (79-20-9) | |
| LD50 oral rat | 6482 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 401 (Acute Oral Toxicity) |
| LD50 dermal rat | > 2000 mg/kg bodyweight Animal: rat, Guideline: EU Method B.3 (Acute Toxicity (Dermal)), Guideline: OECD Guideline 402 (Acute Dermal Toxicity) |
| 4-methylpentan-2-one (108-10-1) | |
| LD50 oral rat | ≈ 4570 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity) |
| Isopropyl acetate (108-21-4) | |
| LD50 oral rat | 6750 mg/kg bodyweight Animal: rat, Animal sex: male |
| Tetrahydrofuran (109-99-9) | |
| LD50 oral rat | 1.65 mg/kg bodyweight Animal: rat, 95% CL: 1,25 - 2,19 |
| LD50 dermal rat | > 2000 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: other:, Guideline: EPA OPPTS 870.1200 (Acute Dermal Toxicity), Guideline: other: |
| LC50 Inhalation - Rat [ppm] | > 5000 ppm Animal: rat, Guideline: other: |
| Skin corrosion/irritation | : Causes skin irritation. pH: 7 |
| Acetone (67-64-1) | |
| pH | 5 Source: ECHA |
| methanol (67-56-1) | |
| pH | 12.1 Source: Gestis |
| N-butyl acetate (123-86-4) | |
| pH | 6.2 Temp.: 20 °C Concentration: 5,3 g/L |
| Serious eye damage/irritation | : Causes serious eye irritation. pH: 7 |
| Acetone (67-64-1) | |
| pH | 5 Source: ECHA |
| methanol (67-56-1) | |
| pH | 12.1 Source: Gestis |
| N-butyl acetate (123-86-4) | |
| pH | 6.2 Temp.: 20 °C Concentration: 5,3 g/L |

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Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified.

Toluene (108-88-3)

IARC group : 3 - Not classifiable

Propan-2-ol (67-63-0)

IARC group : 3 - Not classifiable

Reproductive toxicity : Suspected of damaging the unborn child.

Acetone (67-64-1)

LOAEL (animal/female, F0/P) : 11298 mg/kg bodyweight Animal: mouse, Animal sex: female

NOAEL (animal/male, F0/P) : 900 mg/kg bodyweight Animal: rat, Animal sex: male

Methyl acetate (79-20-9)

LOAEL (animal/male, F0/P) : 1000 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: other:

STOT-single exposure : May cause damage to organs (unspecified) (route of exposure unknown). May cause drowsiness or dizziness.

Acetone (67-64-1)

STOT-single exposure : May cause drowsiness or dizziness.

Toluene (108-88-3)

STOT-single exposure : May cause drowsiness or dizziness.

Propan-2-ol (67-63-0)

STOT-single exposure : May cause drowsiness or dizziness.

ethyl acetate (141-78-6)

STOT-single exposure : May cause drowsiness or dizziness.

methanol (67-56-1)

STOT-single exposure : Causes damage to organs.

Butan-2-ol (78-92-2)

STOT-single exposure : May cause drowsiness or dizziness. May cause respiratory irritation.

Methyl acetate (79-20-9)

STOT-single exposure : May cause drowsiness or dizziness.

4-methylpentan-2-one (108-10-1)

STOT-single exposure : May cause drowsiness or dizziness.

Butanone (78-93-3)

STOT-single exposure : May cause drowsiness or dizziness.

N-butyl acetate (123-86-4)

STOT-single exposure : May cause drowsiness or dizziness.

Isopropyl acetate (108-21-4)

STOT-single exposure : May cause drowsiness or dizziness.

Tetrahydrofuran (109-99-9)

STOT-single exposure : May cause respiratory irritation.

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STOT-repeated exposure : May cause damage to organs (unknown) through prolonged or repeated exposure (route of exposure unknown).

| Toluene (108-88-3) | |
|--|--|
| LOAEL (oral, rat, 90 days) | 1250 mg/kg bodyweight Animal: rat, Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents) |
| NOAEL (oral, rat, 90 days) | 625 mg/kg bodyweight Animal: rat, Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents) |
| NOAEC (inhalation, rat, vapour, 90 days) | 2.355 mg/l air Animal: rat, Guideline: EU Method B.29 (Sub-Chronic Inhalation Toxicity:90-Day Study) |
| STOT-repeated exposure | May cause damage to organs through prolonged or repeated exposure. |

| ethyl acetate (141-78-6) | |
|---------------------------------|--|
| LOAEL (oral, rat, 90 days) | 3600 mg/kg bodyweight Animal: rat, Guideline: EPA OTS 795.2600 (Subchronic Oral Toxicity Test) |
| NOAEL (oral, rat, 90 days) | 900 mg/kg bodyweight Animal: rat, Guideline: EPA OTS 795.2600 (Subchronic Oral Toxicity Test) |

| 4-methylpentan-2-one (108-10-1) | |
|--|--|
| LOAEL (oral, rat, 90 days) | 1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) |
| NOAEL (oral, rat, 90 days) | 250 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) |
| NOAEC (inhalation, rat, vapour, 90 days) | 4.106 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study) |

| N-butyl acetate (123-86-4) | |
|-----------------------------------|---|
| LOAEL (oral, rat, 90 days) | 500 mg/kg bodyweight Animal: rat, Guideline: EPA OTS 798.2650 (90-Day Oral Toxicity in Rodents) |
| NOAEL (oral, rat, 90 days) | 125 mg/kg bodyweight Animal: rat, Guideline: EPA OTS 798.2650 (90-Day Oral Toxicity in Rodents) |

| Isopropyl acetate (108-21-4) | |
|--|---|
| LOAEC (inhalation, rat, vapour, 90 days) | 2.1409 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study), Guideline: EU Method B.29 (Sub-Chronic Inhalation Toxicity:90-Day Study) |

Aspiration hazard : May be fatal if swallowed and enters airways.

| Methyl acetate (79-20-9) | |
|---------------------------------|--------------------------|
| Viscosity, kinematic | 0.391 mm ² /s |

| N-butyl acetate (123-86-4) | |
|-----------------------------------|--|
| Viscosity, kinematic | 0.83 mm ² /s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm ² /s)' |

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Toxic to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute) : Not classified

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Hazardous to the aquatic environment, long-term : Toxic to aquatic life with long lasting effects.
(chronic)

| Acetone (67-64-1) | |
|---------------------------------|---|
| LC50 - Fish [1] | 5540 mg/l Source: ECHA |
| LOEC (chronic) | > 79 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| NOEC (chronic) | ≥ 79 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| Xylene (1330-20-7) | |
| EC50 - Crustacea [1] | > 3.4 mg/l Test organisms (species): Ceriodaphnia dubia |
| LOEC (chronic) | 3.16 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| NOEC chronic fish | > 1.3 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '56 d' |
| Toluene (108-88-3) | |
| LC50 - Fish [1] | 5.5 mg/l Source: ECHA |
| EC50 - Crustacea [1] | 3.78 mg/l Source: ECHA |
| LOEC (chronic) | 2.76 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d' |
| NOEC (chronic) | 0.74 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d' |
| NOEC chronic fish | 1.39 mg/l Test organisms (species): Oncorhynchus kisutch Duration: '40 d' |
| Propan-2-ol (67-63-0) | |
| LC50 - Fish [1] | 9640 mg/l Source: ECHA |
| LC50 - Fish [2] | 9640 mg/l Test organisms (species): Pimephales promelas |
| ethyl acetate (141-78-6) | |
| LC50 - Fish [1] | 230 mg/l Source: ECHA |
| NOEC (chronic) | 2.4 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| methanol (67-56-1) | |
| LC50 - Fish [1] | 15400 mg/l Source: ECHA |
| EC50 96h - Algae [1] | 22000 mg/l Source: ECHA |
| NOEC (chronic) | 208 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| NOEC chronic fish | 446.7 mg/l Test organisms (species): Pimephales promelas Duration: '28 d' |
| Butan-2-ol (78-92-2) | |
| LC50 - Fish [1] | 2993 mg/l Test organisms (species): Pimephales promelas |
| EC50 - Crustacea [1] | 308 mg/l Test organisms (species): Daphnia magna |
| EC50 72h - Algae [1] | 1972 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum) |
| EC50 96h - Algae [1] | 2029 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum) |
| Methyl acetate (79-20-9) | |
| LC50 - Fish [1] | 250 – 350 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) |
| EC50 - Crustacea [1] | 1026.7 mg/l Test organisms (species): Daphnia magna |
| EC50 72h - Algae [1] | > 120 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |

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| 4-methylpentan-2-one (108-10-1) | |
|--|---|
| LC50 - Fish [1] | > 179 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) |
| EC50 - Crustacea [1] | > 200 mg/l Test organisms (species): Daphnia magna |
| Butanone (78-93-3) | |
| LC50 - Fish [1] | 2973 mg/l Test organisms (species): Pimephales promelas |
| EC50 - Crustacea [1] | 308 mg/l Test organisms (species): Daphnia magna |
| EC50 72h - Algae [1] | 1220 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum) |
| EC50 96h - Algae [1] | 1240 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum) |
| N-butyl acetate (123-86-4) | |
| LC50 - Fish [1] | 18 mg/l Test organisms (species): Pimephales promelas |
| EC50 - Crustacea [1] | 44 mg/l Test organisms (species): Daphnia sp. |
| EC50 72h - Algae [1] | 397 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum) |
| EC50 72h - Algae [2] | 246 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum) |
| LOEC (chronic) | 47.6 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| NOEC (chronic) | 23.2 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| Isopropyl acetate (108-21-4) | |
| LC50 - Fish [1] | 400 mg/l Test organisms (species): Pimephales promelas |
| EC50 - Other aquatic organisms [1] | 110 mg/l Test organisms (species): Artemia salina |
| Tetrahydrofuran (109-99-9) | |
| LC50 - Fish [1] | 2160 mg/l Test organisms (species): Pimephales promelas |
| NOEC chronic fish | 216 mg/l Test organisms (species): Pimephales promelas Duration: '33 d' |
| 12.2. Persistence and degradability | |
| rbs Bluewash Equipment Cleaner | |
| Persistence and degradability | Not rapidly degradable |
| Acetone (67-64-1) | |
| Persistence and degradability | Not rapidly degradable |
| Xylene (1330-20-7) | |
| Persistence and degradability | Not rapidly degradable |
| Toluene (108-88-3) | |
| Persistence and degradability | Not rapidly degradable |
| Propan-2-ol (67-63-0) | |
| Persistence and degradability | Not rapidly degradable |
| ethyl acetate (141-78-6) | |
| Persistence and degradability | Not rapidly degradable |

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| methanol (67-56-1) | |
|---------------------------------|------------------------|
| Persistence and degradability | Not rapidly degradable |
| Butan-2-ol (78-92-2) | |
| Persistence and degradability | Not rapidly degradable |
| Methyl acetate (79-20-9) | |
| Persistence and degradability | Not rapidly degradable |
| 4-methylpentan-2-one (108-10-1) | |
| Persistence and degradability | Not rapidly degradable |
| Butanone (78-93-3) | |
| Persistence and degradability | Not rapidly degradable |
| N-butyl acetate (123-86-4) | |
| Persistence and degradability | Not rapidly degradable |
| Isopropyl acetate (108-21-4) | |
| Persistence and degradability | Not rapidly degradable |
| Tetrahydrofuran (109-99-9) | |
| Persistence and degradability | Not rapidly degradable |

12.3. Bioaccumulative potential

| Acetone (67-64-1) | |
|---|--------------------------------|
| Partition coefficient n-octanol/water (Log Pow) | -0.24 Source: ICSC |
| Toluene (108-88-3) | |
| Partition coefficient n-octanol/water (Log Pow) | 2.73 Source: HSDB |
| Propan-2-ol (67-63-0) | |
| Partition coefficient n-octanol/water (Log Pow) | 0.05 Source: ICSC |
| ethyl acetate (141-78-6) | |
| Partition coefficient n-octanol/water (Log Pow) | 0.73 Source: ICSC |
| methanol (67-56-1) | |
| Partition coefficient n-octanol/water (Log Pow) | -0.77 Source: HSDB, ChemIDplus |

12.4. Mobility in soil

| methanol (67-56-1) | |
|--------------------|-------------------|
| Mobility in soil | 2.75 Source: HSDB |

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

| | |
|--|---|
| Regional waste regulation | : Disposal must be done according to official regulations. |
| Waste treatment methods | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| Sewage disposal recommendations | : Disposal must be done according to official regulations. |
| Product/Packaging disposal recommendations | : Disposal must be done according to official regulations. |
| Additional information | : Flammable vapours may accumulate in the container. Do not re-use empty containers. |

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

| ADR | IMDG | IATA | ADN | RID |
|---|---|--|--|--|
| 14.1. UN number or ID number | | | | |
| UN 1263 | UN 1263 | UN 1263 | UN 1263 | UN 1263 |
| 14.2. UN proper shipping name | | | | |
| PAINT / PAINT RELATED MATERIAL | PAINT RELATED MATERIAL | Paint related material | PAINT RELATED MATERIAL | PAINT RELATED MATERIAL |
| Transport document description | | | | |
| UN 1263 PAINT / PAINT RELATED MATERIAL, 3, II, (D/E), ENVIRONMENTALLY HAZARDOUS | UN 1263 PAINT RELATED MATERIAL, 3, II, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS | UN 1263 Paint related material, 3, II, ENVIRONMENTALLY HAZARDOUS | UN 1263 PAINT RELATED MATERIAL, 3, II, ENVIRONMENTALLY HAZARDOUS | UN 1263 PAINT RELATED MATERIAL, 3, II, ENVIRONMENTALLY HAZARDOUS |
| 14.3. Transport hazard class(es) | | | | |
| 3 | 3 | 3 | 3 | 3 |
| | | | | |
| 14.4. Packing group | | | | |
| II | II | II | II | II |
| 14.5. Environmental hazards | | | | |
| Dangerous for the environment: Yes | Dangerous for the environment: Yes Marine pollutant: Yes EmS-No. (Fire): F-E EmS-No. (Spillage): S-E | Dangerous for the environment: Yes | Dangerous for the environment: Yes | Dangerous for the environment: Yes |
| No supplementary information available | | | | |

14.6. Special precautions for user

Overland transport

| | |
|---|-----------------------|
| Classification code (ADR) | : F1 |
| Special provisions (ADR) | : 163, 367, 640C, 650 |
| Limited quantities (ADR) | : 5I |
| Excepted quantities (ADR) | : E2 |
| Packing instructions (ADR) | : P001 |
| Special packing provisions (ADR) | : PP1 |
| Mixed packing provisions (ADR) | : MP19 |
| Portable tank and bulk container instructions (ADR) | : T4 |

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Portable tank and bulk container special provisions (ADR) : TP1, TP8, TP28

Tank code (ADR) : L1.5BN

Vehicle for tank carriage : FL

Transport category (ADR) : 2

Special provisions for carriage - Operation (ADR) : S2, S20

Hazard identification number (Kemler No.) : 33

Orange plates : 

Tunnel restriction code (ADR) : D/E

EAC code : •3YE

Transport by sea

Special provisions (IMDG) : 163, 367

Limited quantities (IMDG) : 5 L

Excepted quantities (IMDG) : E2

Packing instructions (IMDG) : P001

Special packing provisions (IMDG) : PP1

IBC packing instructions (IMDG) : IBC02

Tank instructions (IMDG) : T4

Tank special provisions (IMDG) : TP1, TP8, TP28

Stowage category (IMDG) : B

Properties and observations (IMDG) : Miscibility with water depends upon the composition.

Air transport

PCA Excepted quantities (IATA) : E2

PCA Limited quantities (IATA) : Y341

PCA limited quantity max net quantity (IATA) : 1L

PCA packing instructions (IATA) : 353

PCA max net quantity (IATA) : 5L

CAO packing instructions (IATA) : 364

CAO max net quantity (IATA) : 60L

Special provisions (IATA) : A3, A72, A192

ERG code (IATA) : 3L

Inland waterway transport

Classification code (ADN) : F1

Special provisions (ADN) : 163, 367, 640C, 650

Limited quantities (ADN) : 5 L

Excepted quantities (ADN) : E2

Equipment required (ADN) : PP, EX, A

Ventilation (ADN) : VE01

Number of blue cones/lights (ADN) : 1

Rail transport

Classification code (RID) : F1

Special provisions (RID) : 163, 367, 640C, 650

Limited quantities (RID) : 5L

Excepted quantities (RID) : E2

Packing instructions (RID) : P001

Special packing provisions (RID) : PP1

Mixed packing provisions (RID) : MP19

Portable tank and bulk container instructions (RID) : T4

Portable tank and bulk container special provisions (RID) : TP1, TP8, TP28

Tank codes for RID tanks (RID) : L1.5BN

Transport category (RID) : 2

Colis express (express parcels) (RID) : CE7

Hazard identification number (RID) : 33

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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-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

VOC Directive (2004/42)

VOC content : 2004/42/II(B), Cat A(i), content 850 g/L (limit 850 g/L)

Explosives Precursors Regulation (2019/1148)

Contains substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

ANNEX II REPORTABLE EXPLOSIVES PRECURSORS

List of substances on their own or in mixtures or in substances for which suspicious transactions and significant disappearances and thefts are to be reported within 24 hours.

| Name | CAS-No. | Combined Nomenclature code (CN) | Combined Nomenclature code for mixture without constituents which would determine classification under another CN code |
|---------|---------|---------------------------------|--|
| Acetone | 67-64-1 | 2914 11 00 | ex 3824 99 92 |

Drug Precursors Regulation (273/2004)

Contains substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

| Name | CN designation | CAS-No. | CN code | Category, Subcategory | Threshold | Annex |
|-------------------|----------------|----------|------------|-----------------------|-----------|---------|
| Acetone | | 67-64-1 | 2914 11 00 | Category 3 | | Annex I |
| Toluene | | 108-88-3 | 2902 30 00 | Category 3 | | Annex I |
| Methylethylketone | Butanone | 78-93-3 | 2914 12 00 | Category 3 | | Annex I |

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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SECTION 16: Other information

Abbreviations and acronyms:

| | |
|---------|---|
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration factor |
| BLV | Biological limit value |
| BOD | Biochemical oxygen demand (BOD) |
| COD | Chemical oxygen demand (COD) |
| DMEL | Derived Minimal Effect level |
| DNEL | Derived-No Effect Level |
| EC-No. | European Community number |
| EC50 | Median effective concentration |
| EN | European Standard |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| LC50 | Median lethal concentration |
| LD50 | Median lethal dose |
| LOAEL | Lowest Observed Adverse Effect Level |
| NOAEC | No-Observed Adverse Effect Concentration |
| NOAEL | No-Observed Adverse Effect Level |
| NOEC | No-Observed Effect Concentration |
| OECD | Organisation for Economic Co-operation and Development |
| OEL | Occupational Exposure Limit |
| PBT | Persistent Bioaccumulative Toxic |
| PNEC | Predicted No-Effect Concentration |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS | Safety Data Sheet |
| STP | Sewage treatment plant |
| ThOD | Theoretical oxygen demand (ThOD) |
| TLM | Median Tolerance Limit |
| VOC | Volatile Organic Compounds |
| CAS-No. | Chemical Abstract Service number |
| N.O.S. | Not Otherwise Specified |
| vPvB | Very Persistent and Very Bioaccumulative |
| ED | Endocrine disruptor |

Full text of H- and EUH-statements:

| | |
|---------------------|-----------------------------------|
| Acute Tox. 1 (Oral) | Acute toxicity (oral), Category 1 |
|---------------------|-----------------------------------|

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| Full text of H- and EUH-statements: | |
|-------------------------------------|--|
| Acute Tox. 3 (Dermal) | Acute toxicity (dermal), Category 3 |
| Acute Tox. 3 (Inhalation) | Acute toxicity (inhal.), Category 3 |
| Acute Tox. 3 (Oral) | Acute toxicity (oral), Category 3 |
| Acute Tox. 4 (Dermal) | Acute toxicity (dermal), Category 4 |
| Acute Tox. 4 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 4 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment – Chronic Hazard, Category 2 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment – Chronic Hazard, Category 3 |
| Asp. Tox. 1 | Aspiration hazard, Category 1 |
| Carc. 2 | Carcinogenicity, Category 2 |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Flam. Liq. 2 | Flammable liquids, Category 2 |
| Flam. Liq. 3 | Flammable liquids, Category 3 |
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H300 | Fatal if swallowed. |
| H301 | Toxic if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H311 | Toxic in contact with skin. |
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H331 | Toxic if inhaled. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H351 | Suspected of causing cancer. |
| H361d | Suspected of damaging the unborn child. |
| H370 | Causes damage to organs. |
| H371 | May cause damage to organs (unspecified) (route of exposure unknown). |
| H373 | May cause damage to organs (unknown) through prolonged or repeated exposure (route of exposure unknown). |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| Repr. 2 | Reproductive toxicity, Category 2 |
| Skin Corr. 1 | Skin corrosion/irritation, Category 1 |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |

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Full text of H- and EUH-statements:

| | |
|-----------|--|
| STOT RE 2 | Specific target organ toxicity – Repeated exposure, Category 2 |
| STOT SE 1 | Specific target organ toxicity – single exposure, Category 1 |
| STOT SE 2 | Specific target organ toxicity – Single exposure, Category 2 |
| STOT SE 3 | Specific target organ toxicity – Single exposure, Category 3, Narcosis |

Safety Data Sheet (SDS), EU

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.