

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

1.1. Product identifier

| | |
|---------------------------------|-----------------------------------|
| Product Name | Bloc'Lube Tamper Evident Seal Red |
| Product Code(s) | BLR, EBLR10SL, EBLR15ML, ZE |
| Safety data sheet number | 00655 |
| Unique Formula Identifier (UFI) | 67T1-U0SH-G001-A6C6 |
| Pure substance/mixture | Mixture |

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

| | |
|----------------------|---|
| Recommended use | Sealant |
| Uses advised against | No specific uses advised against are identified |

1.3. Details of the supplier of the safety data sheet

| <u>Manufacturer</u> | <u>Supplier</u> |
|---|--|
| ELECTROLUBE MacDermid Alpha Electronics Solutions ASHBY PARK, COALFIELD WAY, ASHBY DE LA ZOUCH, LEICESTERSHIRE LE65 1JR UNITED KINGDOM | HK WENTWORTH LIMITED 32 RUE DE TOURNENFILS 91540 MENNECY FRANCE |
| +44 (0)1530 419600 +44 (0)1530 416640 info@electrolube.com | +33 (0) 1 82 88 47 94 info@electrolube.com |

For further information, please contact

E-mail address info@electrolube.com

1.4. Emergency telephone number

| | |
|---------------------|--|
| Emergency Telephone | POISON INFORMATION CENTRE (Beaumont Hospital, Republic of Ireland only) +353 (0)1 809 2166 (08:00 - 22:00) |
|---------------------|--|

**Emergency Telephone - IN CASE OF EMERGENCY CALL:
+44 1865 407333 (24hr, Provided by Carechem 24)**

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

| | |
|---|---------------------|
| Flammable liquids | Category 2 - (H225) |
| Serious eye damage/eye irritation | Category 2 - (H319) |
| Specific target organ toxicity — single exposure | Category 3 - (H336) |
| Category 3 Narcotic effects | |

2.2. Label elements

Contains n-Butyl acetate, Ethyl acetate, Propan-2-ol



Signal word

Danger

Hazard statements

- H225 - Highly flammable liquid and vapour
- H319 - Causes serious eye irritation
- H336 - May cause drowsiness or dizziness
- EUH066 - Repeated exposure may cause skin dryness or cracking

Precautionary Statements - EU (§28, 1272/2008)

- P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P403 + P235 - Store in a well-ventilated place. Keep cool.
- P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable.

2.3. Other hazards

This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

| Chemical name | Weight-% | REACH registration number | EC No (EU Index No) | Classification according to Regulation (EC) No. 1272/2008 [CLP] | Specific concentration limit (SCL) | M-Factor | M-Factor (long-term) |
|---------------|----------|---------------------------|---------------------|---|------------------------------------|----------|----------------------|
| | | | | | | | |

| | | | | | | | |
|-----------------------------|-------|---------------------------|-----------|--|---|---|---|
| n-Butyl acetate 123-86-4 | 30-60 | 01-2119485493-29-00 00 | 204-658-1 | Flam. Liq. 3 (H226) STOT SE 3 (H336) | - | - | - |
| Ethyl acetate 141-78-6 | 30-60 | 01-2119475103-46-00 00 | 205-500-4 | Eye Irrit. 2 (H319) STOT SE 3 (H336) Flam. Liq. 2 (H225) | - | - | - |
| Propan-2-ol 67-63-0 | 1-5 | 01-2119457558-25-00 00 | 200-661-7 | Eye Irrit. 2 (H319) STOT SE 3 (H336) Flam. Liq. 2 (H225) | - | - | - |
| Ethanol 64-17-5 | 1-5 | 01-2119457610-43-00 00 | 200-578-6 | Flam. Liq. 2 (H225) | - | - | - |

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

Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

| Chemical name | Oral LD50 mg/kg | Dermal LD50 mg/kg | Inhalation LC50 - 4 hour - dust/mist - mg/L | Inhalation LC50 - 4 hour - vapour - mg/L | Inhalation LC50 - 4 hour - gas - ppm |
|-----------------------------|-----------------|-------------------|---|--|--------------------------------------|
| n-Butyl acetate 123-86-4 | 10768 | 17600 | 0.74 | No data available | No data available |
| Ethyl acetate 141-78-6 | 5620 | 18000 | No data available | 14.4131 | No data available |
| Propan-2-ol 67-63-0 | 1870 | 4059 | No data available | 30.1002 | No data available |
| Ethanol 64-17-5 | 7060 | No data available | 116.9 133.8 | No data available | No data available |

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|-----------------------|---|
| General advice | Show this safety data sheet to the doctor in attendance. Immediate medical attention is required. |
| Inhalation | Remove to fresh air. IF exposed or concerned: Get medical advice/attention. If breathing has stopped, give artificial respiration. Get medical attention immediately. Immediate medical attention is required. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. If symptoms persist, call a doctor. |
| Eye contact | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. |
| Skin contact | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. |
| Ingestion | Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a doctor or poison control centre immediately. |

Self-protection of the first aider Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Do not breathe vapour or mist.

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

Symptoms May cause redness and tearing of the eyes. Burning sensation. Coughing and/ or wheezing. Difficulty in breathing. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Effects of Exposure No information available.

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

Note to doctors Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media Dry chemical. Carbon dioxide (CO₂). Water spray. Alcohol resistant foam.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Do not breathe vapour or mist. Avoid breathing vapours or mists.

Other information Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

6.3. Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapour suppressing foam may be used to reduce vapours. Dyke far ahead of spill to collect run-off water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

Methods for cleaning up Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labelled containers.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Use personal protection equipment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Do not breathe vapour or mist. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Take off contaminated clothing and wash it before reuse.

General hygiene considerations Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not breathe vapour or mist. Remove and wash contaminated clothing and gloves, including the inside, before re-use.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labelled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Store locked up. Keep out of the reach of children.

Storage class (TRGS 510) LGK 3.

7.3. Specific end use(s)

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

| Chemical name | European Union | Austria | Belgium | Bulgaria | Croatia |
|-----------------------------|---|--|--|---|--|
| n-Butyl acetate 123-86-4 | STEL: 723 mg/m ³ STEL: 150 ppm TWA: 241 mg/m ³ TWA: 50 ppm | TWA: 50 ppm TWA: 241 mg/m ³ STEL 100 ppm STEL 480 mg/m ³ | TWA: 50 ppm TWA: 238 mg/m ³ STEL: 150 ppm STEL: 712 mg/m ³ | STEL: 723 mg/m ³ STEL: 150 ppm TWA: 241 mg/m ³ TWA: 50 ppm | TWA: 50 ppm TWA: 241 mg/m ³ STEL: 150 ppm STEL: 723 mg/m ³ |
| Ethyl acetate 141-78-6 | STEL: 1468 mg/m ³ STEL: 400 ppm TWA: 734 mg/m ³ TWA: 200 ppm | TWA: 200 ppm TWA: 734 mg/m ³ STEL 400 ppm STEL 1468 mg/m ³ | TWA: 200 ppm TWA: 734 mg/m ³ STEL: 400 ppm STEL: 1468 mg/m ³ | STEL: 1468 mg/m ³ STEL: 400 ppm TWA: 734 mg/m ³ TWA: 200 ppm | TWA: 200 ppm TWA: 734 mg/m ³ STEL: 400 ppm STEL: 1468 mg/m ³ |
| Ethanol 64-17-5 | - | TWA: 1000 ppm TWA: 1900 mg/m ³ STEL 2000 ppm STEL 3800 mg/m ³ | TWA: 1000 ppm TWA: 1907 mg/m ³ | TWA: 1000 mg/m ³ | TWA: 1000 ppm TWA: 1900 mg/m ³ |
| Propan-2-ol 67-63-0 | - | TWA: 200 ppm TWA: 500 mg/m ³ STEL 800 ppm STEL 2000 mg/m ³ | TWA: 200 ppm TWA: 500 mg/m ³ STEL: 400 ppm STEL: 1000 mg/m ³ | STEL: 1225.0 mg/m ³ TWA: 980.0 mg/m ³ | TWA: 400 ppm TWA: 999 mg/m ³ STEL: 500 ppm STEL: 1250 mg/m ³ |
| Chemical name | Cyprus | Czech Republic | Denmark | Estonia | Finland |
| n-Butyl acetate 123-86-4 | STEL: 723 mg/m ³ STEL: 150 ppm TWA: 241 mg/m ³ TWA: 50 ppm | TWA: 241 mg/m ³ Ceiling: 723 mg/m ³ | TWA: 50 ppm TWA: 241 mg/m ³ STEL: 723 mg/m ³ STEL: 150 ppm | TWA: 241 mg/m ³ TWA: 50 ppm STEL: 723 mg/m ³ STEL: 150 ppm | TWA: 50 ppm TWA: 240 mg/m ³ STEL: 150 ppm STEL: 725 mg/m ³ |
| Ethyl acetate 141-78-6 | STEL: 1468 mg/m ³ STEL: 400 ppm TWA: 734 mg/m ³ TWA: 200 ppm | TWA: 700 mg/m ³ Ceiling: 900 mg/m ³ | TWA: 150 ppm TWA: 540 mg/m ³ STEL: 1468 mg/m ³ STEL: 400 ppm | TWA: 150 ppm TWA: 500 mg/m ³ STEL: 300 ppm STEL: 1100 mg/m ³ | TWA: 200 ppm TWA: 730 mg/m ³ STEL: 400 ppm STEL: 1470 mg/m ³ |
| Propan-2-ol 67-63-0 | - | TWA: 500 mg/m ³ Ceiling: 1000 mg/m ³ D* | TWA: 200 ppm TWA: 490 mg/m ³ STEL: 400 ppm STEL: 980 mg/m ³ | TWA: 150 ppm TWA: 350 mg/m ³ STEL: 250 ppm STEL: 600 mg/m ³ | TWA: 200 ppm TWA: 500 mg/m ³ STEL: 250 ppm STEL: 620 mg/m ³ |
| Ethanol 64-17-5 | - | TWA: 1000 mg/m ³ Ceiling: 3000 mg/m ³ | TWA: 1000 ppm TWA: 1900 mg/m ³ STEL: 2000 ppm STEL: 3800 mg/m ³ | TWA: 500 ppm TWA: 1000 mg/m ³ STEL: 1000 ppm STEL: 1900 mg/m ³ | TWA: 1000 ppm TWA: 1900 mg/m ³ STEL: 1300 ppm STEL: 2500 mg/m ³ |
| Chemical name | France | Germany TRGS | Germany DFG | Greece | Hungary |
| n-Butyl acetate 123-86-4 | TWA: 50 ppm TWA: 241 mg/m ³ STEL: 150 ppm STEL: 723 mg/m ³ | TWA: 62 ppm TWA: 300 mg/m ³ | TWA: 100 ppm TWA: 480 mg/m ³ Peak: 200 ppm Peak: 960 mg/m ³ | TWA: 50 ppm TWA: 241 mg/m ³ STEL: 150 ppm STEL: 723 mg/m ³ | sz+ TWA: 50 ppm TWA: 241 mg/m ³ STEL: 150 ppm STEL: 723 mg/m ³ |
| Ethyl acetate 141-78-6 | TWA: 200 ppm TWA: 734 mg/m ³ STEL: 400 ppm STEL: 1468 mg/m ³ | TWA: 200 ppm TWA: 730 mg/m ³ | TWA: 200 ppm TWA: 750 mg/m ³ Peak: 400 ppm Peak: 1500 mg/m ³ | TWA: 200 ppm TWA: 734 mg/m ³ STEL: 400 ppm STEL: 1468 mg/m ³ | sz+ TWA: 200 ppm TWA: 734 mg/m ³ STEL: 400 ppm STEL: 1468 mg/m ³ |
| Propan-2-ol 67-63-0 | STEL: 400 ppm STEL: 980 mg/m ³ | TWA: 200 ppm TWA: 500 mg/m ³ | TWA: 200 ppm TWA: 500 mg/m ³ Peak: 400 ppm Peak: 1000 mg/m ³ | TWA: 400 ppm TWA: 980 mg/m ³ STEL: 500 ppm STEL: 1225 mg/m ³ | TWA: 500 mg/m ³ TWA: 200 ppm STEL: 1000 mg/m ³ STEL: 400 ppm b* |

| | | | | | |
|-----------------------------|--|--|--|---|---|
| Ethanol 64-17-5 | TWA: 1000 ppm TWA: 1900 mg/m ³ STEL: 5000 ppm STEL: 9500 mg/m ³ | TWA: 200 ppm TWA: 380 mg/m ³ | TWA: 200 ppm TWA: 380 mg/m ³ Peak: 800 ppm Peak: 1520 mg/m ³ | TWA: 1000 ppm TWA: 1900 mg/m ³ | TWA: 1000 ppm TWA: 1900 mg/m ³ STEL: 2000 ppm STEL: 3800 mg/m ³ |
| Chemical name | Ireland | Italy MDLPS | Italy AIDII | Latvia | Lithuania |
| n-Butyl acetate 123-86-4 | STEL: 150 ppm STEL: 723 mg/m ³ | TWA: 241 mg/m ³ TWA: 50 ppm STEL: 723 mg/m ³ STEL: 150 ppm | TWA: 50 ppm TWA: 238 mg/m ³ STEL: 200 ppm STEL: 950 mg/m ³ | TWA: 241 mg/m ³ TWA: 50 ppm STEL: 723 mg/m ³ STEL: 150 ppm | STEL: 723 mg/m ³ STEL: 150 ppm TWA: 241 mg/m ³ TWA: 50 ppm |
| Ethyl acetate 141-78-6 | TWA: 734 mg/m ³ TWA: 200 ppm STEL: 1468 mg/m ³ STEL: 400 ppm | TWA: 734 mg/m ³ TWA: 200 ppm STEL: 1468 mg/m ³ STEL: 400 ppm | TWA: 400 ppm TWA: 1441 mg/m ³ | TWA: 200 mg/m ³ TWA: 54 ppm STEL: 1468 mg/m ³ STEL: 400 ppm | Ceiling: 300 ppm Ceiling: 1100 mg/m ³ TWA: 150 ppm TWA: 500 mg/m ³ |
| Propan-2-ol 67-63-0 | TWA: 200 ppm STEL: 400 ppm Sk* | - | TWA: 200 ppm TWA: 492 mg/m ³ STEL: 400 ppm STEL: 983 mg/m ³ | TWA: 350 mg/m ³ STEL: 600 mg/m ³ | STEL: 250 ppm STEL: 600 mg/m ³ TWA: 150 ppm TWA: 350 mg/m ³ |
| Ethanol 64-17-5 | STEL: 1000 ppm | - | STEL: 1000 ppm STEL: 1884 mg/m ³ | TWA: 1000 mg/m ³ | STEL: 1000 ppm STEL: 1900 mg/m ³ TWA: 500 ppm TWA: 1000 mg/m ³ |
| Chemical name | Luxembourg | Malta | Netherlands | Norway | Poland |
| n-Butyl acetate 123-86-4 | STEL: 723 mg/m ³ STEL: 150 ppm TWA: 241 mg/m ³ TWA: 50 ppm | STEL: 150 ppm STEL: 723 mg/m ³ TWA: 50 ppm TWA: 214 mg/m ³ | TWA: 50 ppm TWA: 241 mg/m ³ STEL: 150 ppm STEL: 723 mg/m ³ | TWA: 241 mg/m ³ TWA: 50 ppm STEL: 723 mg/m ³ STEL: 150 ppm | STEL: 720 mg/m ³ TWA: 240 mg/m ³ |
| Ethyl acetate 141-78-6 | STEL: 1468 mg/m ³ STEL: 400 ppm TWA: 734 mg/m ³ TWA: 200 ppm | STEL: 400 ppm STEL: 1468 mg/m ³ TWA: 200 ppm TWA: 734 mg/m ³ | TWA: 200 ppm TWA: 734 mg/m ³ STEL: 400 ppm STEL: 1468 mg/m ³ | TWA: 200 ppm TWA: 734 mg/m ³ STEL: 400 ppm STEL: 1468 mg/m ³ | STEL: 1468 mg/m ³ TWA: 734 mg/m ³ |
| Propan-2-ol 67-63-0 | - | - | - | TWA: 100 ppm TWA: 245 mg/m ³ STEL: 150 ppm STEL: 306.25 mg/m ³ | STEL: 1200 mg/m ³ TWA: 900 mg/m ³ skóra* |
| Ethanol 64-17-5 | - | - | TWA: 137 ppm TWA: 260 mg/m ³ STEL: 1000 ppm STEL: 1900 mg/m ³ H* | TWA: 500 ppm TWA: 950 mg/m ³ STEL: 625 ppm STEL: 1187.5 mg/m ³ | TWA: 1900 mg/m ³ |
| Chemical name | Portugal | Romania | Slovakia | Slovenia | Spain |
| n-Butyl acetate 123-86-4 | TWA: 50 ppm TWA: 241 mg/m ³ STEL: 150 ppm STEL: 723 mg/m ³ | TWA: 150 ppm TWA: 715 mg/m ³ STEL: 200 ppm STEL: 950 mg/m ³ | TWA: 100 ppm TWA: 500 mg/m ³ Ceiling: 700 mg/m ³ | TWA: 241 mg/m ³ TWA: 50 ppm STEL: 150 ppm STEL: 723 mg/m ³ | TWA: 50 ppm TWA: 241 mg/m ³ STEL: 150 ppm STEL: 723 mg/m ³ |
| Ethyl acetate 141-78-6 | TWA: 200 ppm TWA: 734 mg/m ³ STEL: 1468 mg/m ³ STEL: 400 ppm | TWA: 111 ppm TWA: 400 mg/m ³ STEL: 139 ppm STEL: 500 mg/m ³ | TWA: 200 ppm TWA: 734 mg/m ³ Ceiling: 1100 mg/m ³ | TWA: 200 ppm TWA: 734 mg/m ³ STEL: 400 ppm STEL: 1468 mg/m ³ | TWA: 200 ppm TWA: 734 mg/m ³ STEL: 400 ppm STEL: 1468 mg/m ³ |
| Propan-2-ol 67-63-0 | TWA: 200 ppm STEL: 400 ppm | TWA: 81 ppm TWA: 200 mg/m ³ STEL: 203 ppm STEL: 500 mg/m ³ | TWA: 200 ppm TWA: 500 mg/m ³ Ceiling: 1000 mg/m ³ | TWA: 200 ppm TWA: 500 mg/m ³ STEL: 400 ppm STEL: 1000 mg/m ³ | TWA: 200 ppm TWA: 500 mg/m ³ STEL: 400 ppm STEL: 1000 mg/m ³ |
| Ethanol 64-17-5 | STEL: 1000 ppm | TWA: 1000 ppm TWA: 1900 mg/m ³ STEL: 5000 ppm STEL: 9500 mg/m ³ | TWA: 500 ppm TWA: 960 mg/m ³ Ceiling: 1920 mg/m ³ | TWA: 960 mg/m ³ TWA: 500 ppm STEL: 1000 ppm STEL: 1920 mg/m ³ | STEL: 1000 ppm STEL: 1910 mg/m ³ |
| Chemical name | Sweden | | Switzerland | | United Kingdom |
| n-Butyl acetate | Bindande KGV: 150 ppm | | TWA: 50 ppm | | TWA: 150 ppm |

| | | | |
|---------------------------|---|--|--|
| 123-86-4 | Bindande KGV: 723 mg/m ³ NGV: 50 ppm NGV: 241 mg/m ³ | TWA: 240 mg/m ³ STEL: 150 ppm STEL: 720 mg/m ³ | TWA: 724 mg/m ³ STEL: 200 ppm STEL: 966 mg/m ³ |
| Ethyl acetate 141-78-6 | Bindande KGV: 300 ppm Bindande KGV: 1100 mg/m ³ NGV: 150 ppm NGV: 550 mg/m ³ | TWA: 200 ppm TWA: 730 mg/m ³ STEL: 400 ppm STEL: 1460 mg/m ³ | TWA: 734 mg/m ³ TWA: 200 ppm STEL: 1468 mg/m ³ STEL: 400 ppm |
| Propan-2-ol 67-63-0 | Vägledande KGV: 250 ppm Vägledande KGV: 600 mg/m ³ NGV: 150 ppm NGV: 350 mg/m ³ | TWA: 200 ppm TWA: 500 mg/m ³ STEL: 400 ppm STEL: 1000 mg/m ³ | TWA: 400 ppm TWA: 999 mg/m ³ STEL: 500 ppm STEL: 1250 mg/m ³ |
| Ethanol 64-17-5 | Vägledande KGV: 1000 ppm Vägledande KGV: 1900 mg/m ³ NGV: 500 ppm NGV: 1000 mg/m ³ | TWA: 500 ppm TWA: 960 mg/m ³ STEL: 1000 ppm STEL: 1920 mg/m ³ | TWA: 1000 ppm TWA: 1920 mg/m ³ STEL: 3000 ppm STEL: 5760 mg/m ³ |

Biological occupational exposure limits

| Chemical name | European Union | Austria | Bulgaria | Croatia | Czech Republic |
|------------------------|--|---|--|--|--|
| Propan-2-ol 67-63-0 | - | - | - | 50 mg/L - blood (Acetone) - at the end of the work shift 50 mg/L - urine (Acetone) - at the end of the work shift | - |
| Chemical name | Denmark | Finland | France | Germany DFG | Germany TRGS |
| Propan-2-ol 67-63-0 | - | - | - | 25 mg/L (whole blood - Acetone end of shift) 25 mg/L (urine - Acetone end of shift) 25 mg/L - BAT (end of exposure or end of shift) urine 25 mg/L - BAT (end of exposure or end of shift) blood | 25 mg/L (whole blood - Acetone end of shift) 25 mg/L (urine - Acetone end of shift) |
| Chemical name | Hungary | Ireland | Italy MDLPS | Italy AIDII | |
| Propan-2-ol 67-63-0 | - | 40 mg/L (urine - Acetone end of shift at end of workweek) | - | 40 mg/L - urine (Acetone) - end of shift at end of workweek | |
| Chemical name | Latvia | Luxembourg | Romania | Slovakia | |
| Propan-2-ol 67-63-0 | - | - | 50 mg/L - urine (Acetone) - end of shift | - | |
| Chemical name | Slovenia | Spain | Switzerland | United Kingdom | |
| Propan-2-ol 67-63-0 | 25 mg/L - blood (Acetone) - at the end of the work shift 25 mg/L - urine (Acetone) - at the end of the work shift | 40 mg/L (urine - Acetone end of workweek) | 25 mg/L (urine - Acetone end of shift) 0.4 mmol/L (urine - Acetone end of shift) 25 mg/L (whole blood - Acetone end of shift) 0.4 mmol/L (whole blood - Acetone end of shift) | - | |

Derived No Effect Level (DNEL) - Workers

| Chemical name | Oral | Dermal | Inhalation |
|-------------------------------|------|---------------------------|--|
| Ethyl acetate 141-78-6 | - | 63 mg/kg bw/day [4] [6] | 734 mg/m ³ [4] [6] 1468 mg/m ³ [4] [7] 734 mg/m ³ [5] [6] 1468 mg/m ³ [5] [7] |
| polyacrylic acid 9003-01-4 | - | 0.56 mg/kg bw/day [4] [6] | 1.97 mg/m ³ [4] [6] |
| Ethanol 64-17-5 | - | 343 mg/kg bw/day [4] [6] | 950 mg/m ³ [4] [6] 1900 mg/m ³ [5] [7] |
| Propan-2-ol 67-63-0 | - | 888 mg/kg bw/day [4] [6] | 500 mg/m ³ [4] [6] |

- [4] Systemic health effects.
 [5] Local health effects.
 [6] Long term.
 [7] Short term.

Derived No Effect Level (DNEL) - General Public

| Chemical name | Oral | Dermal | Inhalation |
|-------------------------------|--------------------------|--------|--|
| Ethyl acetate 141-78-6 | 4.5 mg/kg bw/day [4] [6] | - | 367 mg/m ³ [4] [6] 734 mg/m ³ [4] [7] 367 mg/m ³ [5] [6] 734 mg/m ³ [5] [7] |
| polyacrylic acid 9003-01-4 | 0.2 mg/kg bw/day [4] [6] | - | 0.348 mg/m ³ [4] [6] |
| Ethanol 64-17-5 | 87 mg/kg bw/day [4] [6] | - | 114 mg/m ³ [4] [6] 950 mg/m ³ [5] [7] |
| Propan-2-ol 67-63-0 | 26 mg/kg bw/day [4] [6] | - | 89 mg/m ³ [4] [6] |

- [4] Systemic health effects.
 [5] Local health effects.
 [6] Long term.
 [7] Short term.

Predicted No Effect Concentration (PNEC)

| Chemical name | Freshwater | Freshwater (intermittent release) | Marine water | Marine water (intermittent release) | Air |
|-------------------------------------|------------------------|--------------------------------------|--------------------------|--|-----|
| n-Butyl acetate 123-86-4 | 0.18 mg/L | 0.36 mg/L | 0.018 mg/L | - | - |
| Ethyl acetate 141-78-6 | 0.24 mg/L | 1.65 mg/L | 0.024 mg/L | - | - |
| polyacrylic acid 9003-01-4 | 0.003 mg/L | 0.0013 mg/L | 0.0003 mg/L | 0.00013 mg/L | - |
| Propan-2-ol 67-63-0 | 140.9 mg/L | 140.9 mg/L | 140.9 mg/L | - | - |
| tributyl O-acetylcitrate 77-90-7 | 4.6 µg/L 0.022 mg/L | 46 µg/L | 0.46 µg/L 0.0022 mg/L | 4.6 µg/L | - |

| Chemical name | Freshwater sediment | Marine sediment | Sewage treatment | Soil | Food chain |
|-------------------------------------|-----------------------------|------------------------------|----------------------|---------------------------|-----------------|
| n-Butyl acetate 123-86-4 | 0.981 mg/kg sediment dw | 0.0981 mg/kg sediment dw | 35.6 mg/L | 0.0903 mg/kg soil dw | - |
| Ethyl acetate 141-78-6 | 1.15 mg/kg sediment dw | 0.115 mg/kg sediment dw | 650 mg/L | 0.148 mg/kg soil dw | 0.2 g/kg food |
| polyacrylic acid 9003-01-4 | 0.0207 mg/kg sediment dw | 0.00207 mg/kg sediment dw | 0.9 mg/L | 0.003117 mg/kg soil dw | - |
| Propan-2-ol 67-63-0 | 552 mg/kg sediment dw | 552 mg/kg sediment dw | 2251 mg/L | 28 mg/kg soil dw | 160 mg/kg food |
| tributyl O-acetylcitrate 77-90-7 | 41.5 mg/kg sediment dw | 4.15 mg/kg sediment dw | 2.2 µg/L 100 mg/L | 8.29 mg/kg soil dw | 1050 mg/kg food |

8.2. Exposure controls

| | |
|--|--|
| Engineering controls | Ensure adequate ventilation, especially in confined areas. |
| Personal protective equipment | |
| Eye/face protection | Tight sealing safety goggles. |
| Hand protection | Wear suitable gloves. Impervious gloves. |
| Skin and body protection | Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Antistatic boots. |
| Respiratory protection | No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. |
| General hygiene considerations | Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not breathe vapour or mist. Remove and wash contaminated clothing and gloves, including the inside, before re-use. |
| Environmental exposure controls | No information available. |

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|------------------------|--------------------------|
| Physical state | Liquid |
| Appearance | Liquid |
| Colour | red |
| Odour | Organic solvents. |
| Odour threshold | No information available |

| <u>Property</u> | <u>Values</u> | <u>Remarks • Method</u> |
|--|-------------------|-------------------------|
| Melting point / freezing point | No data available | None known |
| Initial boiling point and boiling range | 75 - 80 °C | None known |
| Flammability | No data available | None known |
| Flammability Limit in Air | | None known |
| Upper flammability or explosive limits | No data available | |

| | | |
|---|--------------------------|------------|
| Lower flammability or explosive limits | No data available | |
| Flash point | 3.3 °C | Closed cup |
| Autoignition temperature | No data available | None known |
| Decomposition temperature | | None known |
| pH | No data available | None known |
| pH (as aqueous solution) | No data available | None known |
| Kinematic viscosity | No data available | None known |
| Dynamic viscosity | No data available | None known |
| Water solubility | No data available | None known |
| Solubility(ies) | No data available | None known |
| Partition coefficient | No data available | None known |
| Vapour pressure | No data available | None known |
| Relative density | No data available | None known |
| Bulk density | No data available | |
| Liquid Density | No data available | |
| Relative vapour density | No data available | None known |
| Particle characteristics | | |
| Particle Size | No information available | |
| Particle Size Distribution | No information available | |

9.2. Other information

9.2.1. Information with regards to physical hazard classes

| | |
|-----------------------------|--|
| Explosive properties | Not considered to be explosive |
| Oxidising properties | Does not meet the criteria for classification as oxidising |

9.2.2. Other safety characteristics
 No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No information available.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None.
Sensitivity to static discharge Yes.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid Heat, flames and sparks. Excessive heat.

10.5. Incompatible materials

Incompatible materials None known based on information supplied.

10.6. Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

SECTION 11: Toxicological information

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

Information on likely routes of exposure

Product Information

| | |
|---------------------|--|
| Inhalation | Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract. Toxic by inhalation. (based on components). May cause drowsiness or dizziness. Harmful by inhalation. |
| Eye contact | Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain. |
| Skin contact | Specific test data for the substance or mixture is not available. May cause irritation. Prolonged contact may cause redness and irritation. |
| Ingestion | Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. |

Symptoms related to the physical, chemical and toxicological characteristics

| | |
|-----------------|--|
| Symptoms | May cause redness and tearing of the eyes. Coughing and/ or wheezing. Difficulty in breathing. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. |
|-----------------|--|

Acute toxicity

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

| | |
|--------------------------------------|-----------------|
| ATEmix (oral) | 3,476.40 mg/kg |
| ATEmix (dermal) | 99,999.00 mg/kg |
| ATEmix (inhalation-gas) | 99,999.00 ppm |
| ATEmix (inhalation-vapour) | 99,999.00 mg/l |
| ATEmix (inhalation-dust/mist) | 99,999.00 mg/l |

Component Information

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|-----------------|-----------------------|--------------------------|--|
| n-Butyl acetate | = 10768 mg/kg (Rat) | > 17600 mg/kg (Rabbit) | = 0.74 mg/L (Rat) 4 h |
| Ethyl acetate | = 5620 mg/kg (Rat) | > 18000 mg/kg (Rabbit) | = 4000 ppm (Rat) 4 h |
| Propan-2-ol | = 1870 mg/kg (Rat) | = 4059 mg/kg (Rabbit) | > 10000 ppm (Rat) 6 h |
| Ethanol | = 7060 mg/kg (Rat) | - | = 116.9 mg/L (Rat) 4 h = 133.8 mg/L (Rat) 4 h |

Delayed and immediate effects as well as chronic effects from short and long-term exposure

| | |
|----------------------------------|----------------------------|
| Skin corrosion/irritation | May cause skin irritation. |
|----------------------------------|----------------------------|

| | |
|--|--|
| Serious eye damage/eye irritation | Classification based on data available for ingredients. Causes serious eye irritation. |
| Respiratory or skin sensitisation | Based on available data, the classification criteria are not met. |
| Germ cell mutagenicity | Based on available data, the classification criteria are not met. |
| Carcinogenicity | Based on available data, the classification criteria are not met. |
| Reproductive toxicity | Based on available data, the classification criteria are not met. |
| STOT - single exposure | May cause drowsiness or dizziness. |
| STOT - repeated exposure | Based on available data, the classification criteria are not met. |
| Aspiration hazard | Based on available data, the classification criteria are not met. |

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

11.2.2. Other information

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity

| Chemical name | Algae/aquatic plants | Fish | Toxicity to microorganisms | Crustacea |
|-----------------|---|---|----------------------------|---|
| n-Butyl acetate | EC50: =674.7mg/L (72h, <i>Desmodesmus subspicatus</i>) | LC50: =100mg/L (96h, <i>Lepomis macrochirus</i>) LC50: 17 - 19mg/L (96h, <i>Pimephales promelas</i>) | - | - |
| Ethyl acetate | - | LC50: 220 - 250mg/L (96h, <i>Pimephales promelas</i>) LC50: =484mg/L (96h, <i>Oncorhynchus mykiss</i>) LC50: 352 - 500mg/L (96h, <i>Oncorhynchus mykiss</i>) | - | EC50: =560mg/L (48h, <i>Daphnia magna</i>) |

| | | | | |
|-------------|--|---|---|--|
| Propan-2-ol | EC50: >1000mg/L (96h, Desmodesmus subspicatus) EC50: >1000mg/L (72h, Desmodesmus subspicatus) | LC50: =9640mg/L (96h, Pimephales promelas) LC50: =11130mg/L (96h, Pimephales promelas) LC50: >1400000µg/L (96h, Lepomis macrochirus) | - | EC50: =13299mg/L (48h, Daphnia magna) |
| Ethanol | - | LC50: 12.0 - 16.0mL/L (96h, Oncorhynchus mykiss) LC50: >100mg/L (96h, Pimephales promelas) LC50: 13400 - 15100mg/L (96h, Pimephales promelas) | - | LC50: 9268 - 14221mg/L (48h, Daphnia magna) EC50: =2mg/L (48h, Daphnia magna) |

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation

Component Information

| Chemical name | Partition coefficient |
|-----------------|-----------------------|
| n-Butyl acetate | 2.3 |
| Ethyl acetate | 0.73 |
| Propan-2-ol | 0.05 |
| Ethanol | -0.35 |

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment The product does not contain any substance(s) classified as PBT or vPvB above the threshold of declaration.

| Chemical name | PBT and vPvB assessment |
|-----------------|---|
| n-Butyl acetate | The substance is not PBT / vPvB PBT assessment does not apply |
| Ethyl acetate | The substance is not PBT / vPvB PBT assessment does not apply |
| Propan-2-ol | The substance is not PBT / vPvB PBT assessment does not apply |
| Ethanol | The substance is not PBT / vPvB PBT assessment does not apply |

12.6. Endocrine disrupting properties

Endocrine disrupting properties The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

| | |
|--|--|
| Waste from residues/unused products | Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation. |
| Contaminated packaging | Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers. |

SECTION 14: Transport information

IATA

| | |
|-----------------------------------|--------|
| 14.1 UN number or ID number | UN1263 |
| 14.2 UN proper shipping name | PAINT |
| 14.3 Transport hazard class(es) | 3 |
| 14.4 Packing group | II |
| 14.5 Environmental hazards | No |
| 14.6 Special precautions for user | |
| Special Provisions | None |

IMDG

| | |
|--|--------------------------|
| 14.1 UN number or ID number | UN1263 |
| 14.2 UN proper shipping name | PAINT |
| 14.3 Transport hazard class(es) | 3 |
| 14.4 Packing group | II |
| 14.5 Environmental hazards | No |
| 14.6 Special precautions for user | |
| Special Provisions | None |
| EmS-No | F-E, S-E |
| 14.7 Maritime transport in bulk according to IMO instruments | No information available |

RID

| | |
|-----------------------------------|--------|
| 14.1 UN number or ID number | UN1263 |
| 14.2 UN proper shipping name | PAINT |
| 14.3 Transport hazard class(es) | 3 |
| 14.4 Packing group | II |
| 14.5 Environmental hazards | No |
| 14.6 Special precautions for user | |
| Special Provisions | None |

ADR

| | |
|-----------------------------------|--------|
| 14.1 UN number or ID number | UN1263 |
| 14.2 UN proper shipping name | PAINT |
| 14.3 Transport hazard class(es) | 3 |
| 14.4 Packing group | II |
| 14.5 Environmental hazards | No |
| 14.6 Special precautions for user | |
| Special Provisions | None |
| Tunnel restriction code | (D/E) |

SECTION 15: Regulatory information

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

National regulations

France

Occupational Illnesses (R-463-3, France)

| Chemical name | French RG number |
|----------------------------|------------------|
| n-Butyl acetate - 123-86-4 | RG 84 |
| Ethyl acetate - 141-78-6 | RG 84 |
| Propan-2-ol - 67-63-0 | RG 84 |
| Ethanol - 64-17-5 | RG 84 |

Germany

Water hazard class (WGK) slightly hazardous to water (WGK 1)

Netherlands

| Chemical name | Netherlands - List of Carcinogens | Netherlands - List of Mutagens | Netherlands - List of Reproductive Toxins |
|---------------|-----------------------------------|--------------------------------|--|
| Ethanol | Present | - | Fertility Category 1A Development Category 1A Can be harmful via breastfeeding |

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Authorisations and/or restrictions on use:

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

| Chemical name | Restricted substance per REACH Annex XVII | Substance subject to authorisation per REACH Annex XIV |
|--------------------------|---|--|
| Ethyl acetate - 141-78-6 | Use restricted. See item 75. | - |
| Propan-2-ol - 67-63-0 | Use restricted. See item 75. | - |

Persistent Organic Pollutants

Not applicable

Dangerous substance category per Seveso Directive (2012/18/EU)

H2 - ACUTE TOXIC
P5a - FLAMMABLE LIQUIDS
P5b - FLAMMABLE LIQUIDS
P5c - FLAMMABLE LIQUIDS

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

Biocidal Products Regulation (EU) No 528/2012 (BPR)

| Chemical name | Biocidal Products Regulation (EU) No 528/2012 (BPR) |
|---------------|---|
| | |

| | |
|-----------------------|--|
| Propan-2-ol - 67-63-0 | Product-type 2: Disinfectants and algaecides not intended for direct application to humans or animals Product-type 4: Food and feed area Product-type 1: Human hygiene |
| Ethanol - 64-17-5 | Product-type 1: Human hygiene Product-type 2: Disinfectants and algaecides not intended for direct application to humans or animals Product-type 4: Food and feed area |

International Inventories

| | |
|----------------------|--|
| TSCA | Contact supplier for inventory compliance status |
| DSL/NDSL | Contact supplier for inventory compliance status |
| EINECS/ELINCS | Contact supplier for inventory compliance status |
| ENCS | Contact supplier for inventory compliance status |
| IECSC | Contact supplier for inventory compliance status |
| KECL | Contact supplier for inventory compliance status |
| PICCS | Contact supplier for inventory compliance status |
| AIIC | Contact supplier for inventory compliance status |
| NZIoC | Contact supplier for inventory compliance status |

Legend:

- TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
- DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List
- EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- ENCS** - Japan Existing and New Chemical Substances
- IECSC** - China Inventory of Existing Chemical Substances
- KECL** - Korean Existing and Evaluated Chemical Substances
- PICCS** - Philippines Inventory of Chemicals and Chemical Substances
- AIIC** - Australian Inventory of Industrial Chemicals
- NZIoC** - New Zealand Inventory of Chemicals

15.2. Chemical safety assessment

Chemical Safety Report No information available

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3

- H225 - Highly flammable liquid and vapour
- H226 - Flammable liquid and vapour
- H319 - Causes serious eye irritation
- H336 - May cause drowsiness or dizziness

Legend

SVHC: Substances of Very High Concern for Authorisation:

Legend Section 8: Exposure controls/personal protection

| | | | |
|---------|-----------------------------|------|----------------------------------|
| TWA | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value | * | Skin designation |
| + | Sensitisers | | |

Classification procedure

| Classification according to Regulation (EC) No. 1272/2008 [CLP] | Method Used |
|---|--------------------|
| Acute oral toxicity | Calculation method |
| Acute dermal toxicity | Calculation method |
| Acute inhalation toxicity - gas | Calculation method |
| Acute inhalation toxicity - vapour | Calculation method |
| Acute inhalation toxicity - dust/mist | Calculation method |
| Skin corrosion/irritation | Calculation method |
| Serious eye damage/eye irritation | Calculation method |
| Respiratory sensitisation | Calculation method |
| Skin sensitisation | Calculation method |
| Mutagenicity | Calculation method |
| Carcinogenicity | Calculation method |
| Reproductive toxicity | Calculation method |
| STOT - single exposure | Calculation method |
| STOT - repeated exposure | Calculation method |
| Acute aquatic toxicity | Calculation method |
| Chronic aquatic toxicity | Calculation method |
| Aspiration hazard | Calculation method |
| Ozone | Calculation method |

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)
 U.S. Environmental Protection Agency ChemView Database
 European Food Safety Authority (EFSA)
 European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)
 European Chemicals Agency (ECHA) (ECHA_API)
 EPA (Environmental Protection Agency)
 Acute Exposure Guideline Level(s) (AEGl(s))
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
 U.S. Environmental Protection Agency High Production Volume Chemicals
 Food Research Journal
 Hazardous Substance Database
 International Uniform Chemical Information Database (IUCLID)
 National Institute of Technology and Evaluation (NITE)
 Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
 NIOSH (National Institute for Occupational Safety and Health)
 National Library of Medicine's ChemID Plus (NLM CIP)
 National Library of Medicine's PubMed database (NLM PUBMED)
 National Toxicology Program (NTP)
 New Zealand's Chemical Classification and Information Database (CCID)
 Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications
 Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme
 Organisation for Economic Co-operation and Development Screening Information Data Set
 World Health Organization

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

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet