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

### 1.1. Product identifier

| | |
|---|---|
| **Product identifier.** | 9004/280 |
| **Product name.** | MAKE 5000 LT BATCH |
| **UFI** | No Information |

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

| | |
|---|---|
| **Recommended Use.** | Industrial Wood Coating |
| **Uses advised against.** | Professional Use Only |

### 1.3. Details of the supplier of the safety data sheet

| | |
|---|---|
| **Supplier.** | Morrells Woodfinishes Ltd<br>Wellington Works<br>Mill Lane, Woodley<br>Stockport<br>SK6 1RN<br>Tel: +44 (0)161 406 5300<br>Fax: +44 (0)161 406 6276<br><br>EMail: enquires@morrells.co.uk |
| **1.4. Emergency telephone number** | Chemtrec: +1-800-424-9300 USA<br>Chemtrec: +1 703-527-3887 ex-USA<br>24 hrs./day, 7 days/week |
| **Europe** | 112 |
| **Austria** | +43 1 406 43 43 |
| **Belgium** | Poison center (BE): +32 70 245 245 |
| **Denmark** | Poison Control Hotline (DK): +45 82 12 12 12 |
| **Finland** | Poison Information Centre (FI):+358 9 471 977 |
| **France** | ORFILA (FR): + 01 45 42 59 59 |
| **Germany** | Poison Center Berlin (DE): +49 030 30686 790 \|par Poison Center Nord: +49 551 19240 (24h available English / German) |
| **Ireland** | National Poisons Information Centre (IE): +353 1 8379964 / + 353 1 8092566 |
| **Iceland** | +354 543 2222 |
| **Italy** | Poison Center, Milan (IT): +39 02 6610 1029 |
| **Luxembourg** | 112 |
| **Netherlands** | National Poisons Information Center (NL): +31 88 755 8000 (NB: this service is only available to health professionals) |
| **Norway** | Poisons Information (NO):+ 47 22 591300 |
| **Portugal** | Poison Information Center (PT): +351 21 330 3284 |
| **Spain** | Poison Information Service (ES): +34 91 562 04 20 |
| **Sweden** | Poisons Information Center (SV):+46 8 33 12 31 |
| **Switzerland** | Poison Center: Tel 145; +41 44 251 51 51 |
| **United Kingdom** | 111 / 0300 020 0155 |

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Flammable Liquid, category 2
Reproductive_ToxicityD_category_2
STOT, single exposure, category 3, NE
STOT, repeated exposure, category 2
Skin Irritation, category 2
Serious Eye Damage, category 1
Hazardous to the aquatic environment, Chronic, category 3

### 2.2. Label elements

**Signal Word**
Danger

**Hazardous ingredients which must be listed on the label**
Not Applicable

**Possible Hazards**
11.7% of the mixture consists of ingredient(s) of unknown toxicity
8.4% of the mixture consists of ingredient(s) of unknown acute dermal toxicity
11.7% of the mixture consists of ingredient(s) of unknown acute inhalation toxicity

**GHS HAZARD STATEMENTS**

| | |
|---|---|
| H225 | Highly flammable liquid and vapour. |
| H412 | Harmful to aquatic life with long lasting effects. |
| H361D | Suspected of damaging the unborn child. |
| H318 | Causes serious eye damage. |
| H315 | Causes skin irritation. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H336 | May cause drowsiness or dizziness. |

**GHS SDS PRECAUTIONARY STATEMENTS**

| | |
|---|---|
| P102 | Keep out of reach of children. |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P240 | Ground and bond container and receiving equipment. |
| P241 | Use explosion-proof electrical/ ventilating/ lighting/ equipment. |
| P242 | Use non-sparking tools. |
| P243 | Take action to prevent static discharges. |
| P260 | Do not breathe dust/fume/gas/mist/vapours/spray. |
| P262 | Do not get in eyes, on skin, or on clothing. |
| P264 | Wash contaminated skin thoroughly after handling. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P301+P310 | IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. |
| P302+P352 | IF ON SKIN: Wash with plenty of soap and water. |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. |
| P304+P340 | IF INHALED: Remove person to fresh air and keep 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. |
| P321 | Specific treatment (see supplemental first aid instructions on this label). |
| P331 | Do NOT induce vomiting. |
| P332+P313 | If skin irritation occurs: Get medical advice/attention. |
| P362+P364 | Take off contaminated clothing and wash it before reuse. |
| P370+P378 | In case of fire: Use carbon dioxide to extinguish. |
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed. |
| P403+P235 | Store in a well-ventilated place. Keep cool. |
| P405 | Store locked up. |
| P501 | Dispose of contents/container in accordance with national regulations. |

### 2.3. Other hazards

EMERGENCY OVERVIEW: No Information

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

This product is a mixture. Health hazard information is based on its components.

### 3.2. Mixtures

| Chemical Name | CAS-No. | EC No. | Wt. % |
|---|---|---|---|
| ISOBUTYL ACETATE | 110-19-0 | 203-745-1 | >=20 - <30 |
| Toluene | 108-88-3 | 203-625-9 | >=10 - <20 |
| Xylene | 1330-20-7 | 215-535-7 | >=10 - <20 |
| Ethanol | 64-17-5 | 200-578-6 | >=5 - <10 |
| Isopropyl alcohol | 67-63-0 | 200-661-7 | >=3 - <7 |
| ISOBUTYL ALCOHOL | 78-83-1 | 201-148-0 | >=1 - <3 |
| 1-METHOXY-2-PROPANOL | 107-98-2 | 203-539-1 | >=1 - <3 |

| | | | |
|---|---|---|---|
| N-BUTANOL | 71-36-3 | 200-751-6 | >=0.5 - <1.5 |
| Bis(2-ethylhexyl) adipate | 103-23-1 | 203-090-1 | >=0.5 - <1.5 |
| METHANOL | 67-56-1 | 200-659-6 | <1 |
| Phosphoric acid | 7664-38-2 | 231-633-2 | <1 |
| Ethylbenzene | 100-41-4 | 202-849-4 | <1 |
| 2-Methoxy-1-methylethyl acetate | 108-65-6 | 203-603-9 | <1 |

| Chemical Name | Classification (1272/2008/EC) | Specific Conc. Limits, M-factors and ATEs |
|---|---|---|
| ISOBUTYL ACETATE | EUH066<br>Flam. Liq. 2 (H225) | ATE oral (mg/kg): 15400 mg/kg Rat<br>ATE dermal (mg/kg): >17400 mg/kg Rabbit<br>ATE inhalation - vapor (mg/l/4h): N.R.<br>ATE inhalation - dust/mist (mg/l/4h): N.R. |
| Toluene | Flam. Liq. 2 (H225)<br>Asp. Tox. 1 (H304)<br>Skin Irrit. 2 (H315)<br>STOT SE 3 NE (H336)<br>Repr. 2 (H361D)<br>STOT RE 2 (H373) | ATE oral (mg/kg): 2600 mg/kg Rat<br>ATE dermal (mg/kg): 12000 mg/kg Rabbit<br>ATE inhalation - vapor (mg/l/4h): N.R.<br>ATE inhalation - dust/mist (mg/l/4h): N.R. |
| Xylene | Flam. Liq. 3 (H226)<br>Skin Irrit. 2 (H315)<br>Acute Tox. 4 Inhalation (H332) | ATE oral (mg/kg): 3500 mg/kg Rat<br>ATE dermal (mg/kg): >4350 mg/kg Rabbit<br>ATE inhalation - vapor (mg/l/4h): N.R.<br>ATE inhalation - dust/mist (mg/l/4h): N.R. |
| Ethanol | Flam. Liq. 2 (H225)<br>Aquatic Chronic 2 (H411) | ATE oral (mg/kg): 7060 mg/kg Rat<br>ATE dermal (mg/kg): N.R.<br>ATE inhalation - vapor (mg/l/4h): 116.9 mg/L, 133.8 mg/L Rat<br>ATE inhalation - dust/mist (mg/l/4h): N.R. |
| Isopropyl alcohol | Flam. Liq. 2 (H225)<br>Eye Irrit. 2 (H319)<br>STOT SE 3 RTI (H335)<br>STOT SE 3 NE (H336) | ATE oral (mg/kg): 4710 - 5840 mg/kg Rat<br>ATE dermal (mg/kg): 4059 mg/kg Rabbit<br>ATE inhalation - vapor (mg/l/4h): N.R.<br>ATE inhalation - dust/mist (mg/l/4h): N.R. |
| ISOBUTYL ALCOHOL | Flam. Liq. 3 (H226)<br>Skin Irrit. 2 (H315)<br>Eye Dam. 1 (H318)<br>Acute Tox. 4 Inhalation (H332)<br>STOT SE 3 RTI (H335)<br>STOT SE 3 NE (H336) | ATE oral (mg/kg): 2460 mg/kg Rat<br>ATE dermal (mg/kg): 3400 mg/kg Rabbit<br>ATE inhalation - vapor (mg/l/4h): >18.18 mg/L Rat |
| 1-METHOXY-2-PROPANOL | Flam. Liq. 3 (H226)<br>STOT SE 3 NE (H336) | ATE oral (mg/kg): N.R.<br>ATE dermal (mg/kg): N.R.<br>ATE inhalation - vapor (mg/l/4h): N.R.<br>ATE inhalation - dust/mist (mg/l/4h): N.R. |
| N-BUTANOL | Flam. Liq. 3 (H226)<br>Acute Tox. 4 Oral (H302)<br>Skin Irrit. 2 (H315)<br>Eye Dam. 1 (H318)<br>STOT SE 3 RTI (H335)<br>STOT SE 3 NE (H336)<br>Aquatic Chronic 3 (H412) | ATE oral (mg/kg): 700 mg/kg Rat<br>ATE dermal (mg/kg): 3402 mg/kg Rabbit<br>ATE inhalation - vapor (mg/l/4h): N.R.<br>ATE inhalation - dust/mist (mg/l/4h): N.R. |
| Bis(2-ethylhexyl) adipate | Not classified | ATE oral (mg/kg): 5600 mg/kg Rat<br>ATE dermal (mg/kg): 8410 mg/kg Rabbit |
| METHANOL | Flam. Liq. 2 (H225)<br>STOT SE 1 (H370)<br>Aquatic Chronic 3 (H412) | ATE oral (mg/kg): 6200 mg/kg Rat<br>ATE dermal (mg/kg): 15840 mg/kg Rabbit<br>ATE inhalation - vapor (mg/l/4h): N.R.<br>ATE inhalation - dust/mist (mg/l/4h): N.R. |
| Phosphoric acid | Acute Tox. 4 Oral (H302)<br>Skin Corr. 1B (H314)<br>Acute Tox. 3 Inhalation (H331) | ATE oral (mg/kg): 1530 mg/kg Rat<br>ATE dermal (mg/kg): 2740 mg/kg Rabbit<br>ATE inhalation - vapor (mg/l/4h): 3.8 mg/L Rat |
| Ethylbenzene | Flam. Liq. 2 (H225)<br>Asp. Tox. 1 (H304)<br>Acute Tox. 4 Inhalation (H332)<br>STOT RE 2 (H373) | ATE oral (mg/kg): 3500 mg/kg Rat<br>ATE dermal (mg/kg): 15400 mg/kg Rabbit<br>ATE inhalation - vapor (mg/l/4h): 17.2 mg/L<br>ATE inhalation - dust/mist (mg/l/4h): N.R. |

| | | |
|---|---|---|
| 2-Methoxy-1-methylethyl acetate | Flam. Liq. 3 (H226) | ATE oral (mg/kg): N.R.<br>ATE dermal (mg/kg): N.R.<br>ATE inhalation - vapor (mg/l/4h): N.R.<br>ATE inhalation - dust/mist (mg/l/4h): N.R. |

**For the full text of the H-Statements mentioned in this Section, see Section 16**

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**General advice.**

Immediate medical attention is required. Show this safety data sheet to the doctor in attendance. Do not get in eyes, on skin, or on clothing. Do not delay care and transport of a seriously injured person. Effects should disappear after individual has been exposed to fresh air for approximately 10 minutes. Remove and isolate contaminated clothing and shoes. Use first aid treatment according to the nature of the injury. Do not breathe dust. Move out of dangerous area. Use personal protective equipment. Remove all sources of ignition. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. See section 8 for more information. Ensure adequate ventilation.

**Inhalation.**

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Keep victim warm and quiet. If unconscious place in recovery position and seek medical advice. Artificial respiration and/or oxygen may be necessary. Administer oxygen if breathing is difficult. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Get medical attention immediately if symptoms occur. Get medical attention if symptoms occur.

**Skin contact.**

Take off contaminated clothing and shoes immediately. Wash off immediately with soap and plenty of water for at least 15 minutes. Do not remove clothing if adhering to skin. Wash contaminated clothing before reuse. Get medical attention if symptoms occur. Thoroughly clean shoes before reuse.

**Eye contact.**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Do not rub affected area. Get medical attention immediately.

**Ingestion.**

Rinse mouth. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice. Remove from exposure, lie down. If swallowed, call a poison control center or doctor immediately. Keep at rest.

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

**Symptoms.**

Itching. Burning. Rashes. Drowsiness. Dizziness. Skin irritation. Eye irritation. Redness.

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

**Notes to physician.**

Treat symptomatically. Symptoms may be delayed.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media.**

Use:. Dry chemical. Carbon dioxide ($CO_2$). Water spray or fog. Alcohol-resistant foam. Move containers from fire area if you can do it without risk.

**Extinguishing media which shall not be used for safety reasons.**

Do not use a solid water stream as it may scatter and spread fire. Water may be ineffective.

### 5.2. Special hazards arising from the substance or mixture

The product causes burns of eyes, skin and mucous membranes. Flammable. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Runoff may pollute waterways. Vapor explosion hazard indoors, outdoors or in sewers. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Will be easily ignited by heat, sparks or flames. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Do not allow run-off from fire fighting to enter drains or water courses. Cool drums with water spray. Fire will produce dense black smoke containing hazardous combustion products (see section 10). Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration. Container may explode in heat of fire.

### 5.3. Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.Keep away from sources of ignition. Prevent fire fighting water from entering surface water or groundwater. Cool containers with spray water from a safe distance. Never use welding or cutting torch on or near container (even empty) because product may ignite explosively.Cool closed containers exposed to fire with water spray.
Pay attention to flashback. Refer to protective measures listed in sections 7 and 8.

## 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. Ensure adequate ventilation, especially in confined areas. Remove all sources of ignition. Keep people away from and upwind of spill/leak. Take precautionary measures against static discharges. Pay attention to flashback. All equipment used when handling the product must be grounded. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Stop leak if you can do it without risk. Avoid contact with skin, eyes and inhalation of vapors. Do not get in eyes, on skin, or on clothing. A vapor suppressing foam may be used to reduce vapors. Wash thoroughly after handling. Contaminated surfaces will be extremely slippery. Refer to protective measures listed in sections 7 and 8. Do not breathe dust. Avoid exceeding of the given occupational exposure limits (see section 8). Wear appropriate respiratory protection and protective clothing as described in Section VIII. Corrosive.

**Advice for emergency responders.**

Pay attention to flashback. Refer to protective measures listed in sections 7 and 8.

### 6.2. Environmental precautions

Do not allow material to contaminate ground water system. Local authorities should be advised if significant spillages cannot be contained. Should not be released into the environment. Prevent entry into waterways, sewers, basements or confined areas. Prevent spreading of vapors through sewers, ventilation systems and confined areas. See Section 12 for additional Ecological information. Dispose of contents/container to an approved waste disposal plant. See Section 12 for additional Ecological information. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. Try to prevent the material from entering drains or water courses. Prevent further leakage or spillage if safe to do so.

### 6.3. Methods and material for containment and cleaning up

**Methods for Containment.**

Soak up with inert absorbent material. Place into closed container and store in a safe location to await disposal. Wash the spill area with soap and water. Change contaminated clothing and launder before re-use. Wear proper personal protective clothing and equipment.

**Methods for cleaning up.**

No Information

**Other information.**

All equipment used when handling the product must be grounded. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Ventilate the area. Use personal protective equipment as required.

### 6.4. Reference to other sections

See Section 8, 13 for additional information.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Advice on safe handling.**

Use spark-proof tools and explosion-proof equipment. Wear personal protective equipment. Remove and wash contaminated clothing before re-use. Take precautionary measures against static discharges. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation at machinery. Ensure adequate ventilation. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Use only in area provided with appropriate exhaust ventilation. Wash thoroughly after handling. Never pierce, drill, grind, cut, saw or weld any empty container. Provide sufficient air exchange and/or exhaust in work rooms. Vapors may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapor in air and avoid vapor concentration higher than the occupational exposure limits. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Keep product and empty container away from heat and sources of ignition. Electrical equipment should be protected to the appropriate standard. Keep container closed when not in use. Ground and bond containers when transferring material.

**Hygiene measures.**

Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Handle in accordance with good industrial hygiene and safety practice. Contaminated work clothing should not be allowed out of the workplace. Avoid contact with skin, eyes and clothing. Wash hands before breaks and at the end of workday. Regular cleaning of equipment, work area and clothing is recommended.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage Conditions.**

Keep in a bunded area. Keep in properly labeled containers. Keep container tightly closed. Keep in an area equipped with sprinklers. Keep out of the reach of children. Store in accordance with the particular national regulations. Store in accordance with local regulations. Ensure all equipment is electrically grounded before beginning transfer operations. Use spark-proof tools and explosion-proof equipment. Keep locked up or in an area accessible only to qualified or authorized persons. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Store between 41 and 77 °F (5 - 25° C) in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

### 7.3. Specific end use(s)

**Specific use(s).**

No Information

**Exposure scenario.**

No Information Available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

**Exposure Limit Values**

| Chemical Name | Austria | Belgium | Denmark | European Union. | Finland | France |
|---|---|---|---|---|---|---|
| ISOBUTYL ACETATE 110-19-0 | STEL: 100 ppm STEL: 480 mg/m3 TWA: 50 ppm TWA: 241 mg/m3 | STEL: 150 ppm STEL: 712 mg/m3 TWA: 50 ppm TWA: 238 mg/m3 | TWA: 50 ppm TWA: 241 mg/m3 | N.D. | STEL: 150 ppm STEL: 725 mg/m3 TWA: 50 ppm TWA: 240 mg/m3 | STEL: 150 ppm STEL: 723 mg/m3 TWA: 50 ppm TWA: 241 mg/m3 |
| Toluene 108-88-3 | STEL: 100 ppm STEL: 380 mg/m3 TWA: 50 ppm TWA: 190 mg/m3 | STEL: 100 ppm STEL: 384 mg/m3 TWA: 20 ppm TWA: 77 mg/m3 | TWA: 25 ppm TWA: 94 mg/m3 | STEL: 100 ppm STEL: 384 mg/m3 TWA: 50 ppm TWA: 192 mg/m3 | STEL: 100 ppm STEL: 380 mg/m3 TWA: 25 ppm TWA: 81 mg/m3 | STEL: 100 ppm STEL: 384 mg/m3 TWA: 20 ppm TWA: 76.8 mg/m3 |
| Xylene 1330-20-7 | STEL: 100 ppm STEL: 442 mg/m3 TWA: 50 ppm TWA: 221 mg/m3 | STEL: 100 ppm STEL: 442 mg/m3 TWA: 50 ppm TWA: 221 mg/m3 | TWA: 25 ppm TWA: 109 mg/m3 | STEL: 100 ppm STEL: 442 mg/m3 TWA: 50 ppm TWA: 221 mg/m3 | STEL: 100 ppm STEL: 440 mg/m3 TWA: 50 ppm TWA: 220 mg/m3 | STEL: 100 ppm STEL: 442 mg/m3 TWA: 50 ppm TWA: 221 mg/m3 |
| Ethanol 64-17-5 | STEL: 2000 ppm STEL: 3800 mg/m3 TWA: 1000 ppm TWA: 1900 mg/m3 | TWA: 1000 ppm TWA: 1907 mg/m3 | TWA: 1000 ppm TWA: 1900 mg/m3 | N.D. | STEL: 1300 ppm STEL: 2500 mg/m3 TWA: 1000 ppm TWA: 1900 mg/m3 | STEL: 5000 ppm STEL: 9500 mg/m3 TWA: 1000 ppm TWA: 1900 mg/m3 |
| Isopropyl alcohol 67-63-0 | STEL: 800 ppm STEL: 2000 mg/m3 TWA: 200 ppm TWA: 500 mg/m3 | STEL: 400 ppm STEL: 1000 mg/m3 TWA: 200 ppm TWA: 500 mg/m3 | TWA: 200 ppm TWA: 490 mg/m3 | N.D. | STEL: 250 ppm STEL: 620 mg/m3 TWA: 200 ppm TWA: 500 mg/m3 | STEL: 400 ppm STEL: 980 mg/m3 |
| ISOBUTYL ALCOHOL 78-83-1 | STEL: 200 ppm STEL: 600 mg/m3 TWA: 50 ppm TWA: 150 mg/m3 | TWA: 50 ppm TWA: 154 mg/m3 | N.D. | N.D. | STEL: 75 ppm STEL: 230 mg/m3 TWA: 150 mg/m3 TWA: 50 ppm | TWA: 50 ppm TWA: 150 mg/m3 |
| 1-METHOXY-2-PROPANOL 107-98-2 | STEL: 50 ppm STEL: 187 mg/m3 TWA: 50 ppm TWA: 187 mg/m3 | STEL: 100 ppm STEL: 369 mg/m3 TWA: 50 ppm TWA: 184 mg/m3 | TWA: 50 ppm TWA: 185 mg/m3 | STEL: 150 ppm STEL: 568 mg/m3 TWA: 100 ppm TWA: 375 mg/m3 | STEL: 150 ppm STEL: 560 mg/m3 TWA: 100 ppm TWA: 370 mg/m3 | STEL: 100 ppm STEL: 375 mg/m3 TWA: 50 ppm TWA: 188 mg/m3 |
| N-BUTANOL 71-36-3 | STEL: 200 ppm STEL: 600 mg/m3 TWA: 50 ppm TWA: 150 mg/m3 | TWA: 20 ppm TWA: 62 mg/m3 | N.D. | N.D. | STEL: 75 ppm STEL: 230 mg/m3 TWA: 50 ppm TWA: 150 mg/m3 | STEL: 50 ppm STEL: 150 mg/m3 |

| Chemical Name | Austria | Belgium | Denmark | European Union. | Finland | France |
|---|---|---|---|---|---|---|
| Bis(2-ethylhexyl) adipate 103-23-1 | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. |
| METHANOL 67-56-1 | STEL: 800 ppm STEL: 1040 mg/m3 TWA: 200 ppm TWA: 260 mg/m3 | STEL: 250 ppm STEL: 333 mg/m3 TWA: 200 ppm TWA: 266 mg/m3 | TWA: 200 ppm TWA: 260 mg/m3 | TWA: 200 ppm TWA: 260 mg/m3 | STEL: 250 ppm STEL: 330 mg/m3 TWA: 200 ppm TWA: 270 mg/m3 | STEL: 1000 ppm STEL: 1300 mg/m3 TWA: 200 ppm TWA: 260 mg/m3 |
| Phosphoric acid 7664-38-2 | STEL: 2 mg/m3 TWA: 1 mg/m3 | STEL: 2 mg/m3 TWA: 1 mg/m3 | TWA: 1 mg/m3 | STEL: 2 mg/m3 TWA: 1 mg/m3 | STEL: 2 mg/m3 TWA: 1 mg/m3 | STEL: 0.5 ppm STEL: 2 mg/m3 TWA: 0.2 ppm TWA: 1 mg/m3 |
| Ethylbenzene 100-41-4 | STEL: 200 ppm STEL: 880 mg/m3 TWA: 100 ppm TWA: 440 mg/m3 | STEL: 125 ppm STEL: 551 mg/m3 TWA: 20 ppm TWA: 87 mg/m3 | TWA: 50 ppm TWA: 217 mg/m3 | STEL: 200 ppm STEL: 884 mg/m3 TWA: 100 ppm TWA: 442 mg/m3 | STEL: 200 ppm STEL: 880 mg/m3 TWA: 50 ppm TWA: 220 mg/m3 | STEL: 100 ppm STEL: 442 mg/m3 TWA: 20 ppm TWA: 88.4 mg/m3 |
| 2-Methoxy-1-methylethyl acetate 108-65-6 | STEL: 100 ppm STEL: 550 mg/m3 TWA: 50 ppm TWA: 275 mg/m3 | STEL: 100 ppm STEL: 550 mg/m3 TWA: 50 ppm TWA: 275 mg/m3 | TWA: 50 ppm TWA: 275 mg/m3 | STEL: 100 ppm STEL: 550 mg/m3 TWA: 50 ppm TWA: 275 mg/m3 | STEL: 100 ppm STEL: 550 mg/m3 TWA: 50 ppm TWA: 270 mg/m3 | STEL: 100 ppm STEL: 550 mg/m3 TWA: 50 ppm TWA: 275 mg/m3 |

| Chemical Name | Germany | Iceland | Ireland | Italy | Luxembourg | Netherlands |
|---|---|---|---|---|---|---|
| ISOBUTYL ACETATE 110-19-0 | STEL: 200 ppm STEL: 960 mg/m3 TWA: 100 ppm TWA: 480 mg/m3 | STEL: 150 ppm STEL: 723 mg/m3 TWA: 50 ppm TWA: 241 mg/m3 | STEL: 150 ppm STEL: 723 mg/m3 TWA: 50 ppm TWA: 241 mg/m3 | STEL: 723 mg/m3 STEL: 150 ppm TWA: 241 mg/m3 TWA: 50 ppm | STEL: 723 mg/m3 STEL: 150 ppm TWA: 241 mg/m3 TWA: 50 ppm | STEL: 150 ppm STEL: 723 mg/m3 TWA: 50 ppm TWA: 241 mg/m3 |
| Toluene 108-88-3 | STEL: 100 ppm STEL: 380 mg/m3 TWA: 50 ppm TWA: 190 mg/m3 | STEL: 50 ppm STEL: 188 mg/m3 TWA: 25 ppm TWA: 94 mg/m3 | STEL: 384 mg/m3 STEL: 100 ppm TWA: 192 mg/m3 TWA: 50 ppm | TWA: 50 ppm TWA: 192 mg/m3 | STEL: 100 ppm STEL: 384 mg/m3 TWA: 50 ppm TWA: 192 mg/m3 | STEL: 100 ppm STEL: 384 mg/m3 TWA: 39 ppm TWA: 150 mg/m3 |
| Xylene 1330-20-7 | STEL: 100 ppm STEL: 440 mg/m3 TWA: 50 ppm TWA: 220 mg/m3 | STEL: 100 ppm STEL: 442 mg/m3 TWA: 25 ppm TWA: 109 mg/m3 | STEL: 100 ppm STEL: 442 mg/m3 TWA: 50 ppm TWA: 221 mg/m3 | STEL: 100 ppm STEL: 442 mg/m3 TWA: 50 ppm TWA: 221 mg/m3 | STEL: 100 ppm STEL: 442 mg/m3 TWA: 50 ppm TWA: 221 mg/m3 | STEL: 100 ppm STEL: 442 mg/m3 TWA: 47.5 ppm TWA: 210 mg/m3 |
| Ethanol 64-17-5 | STEL: 800 ppm STEL: 1520 mg/m3 TWA: 200 ppm TWA: 380 mg/m3 | TWA: 1000 ppm TWA: 1900 mg/m3 | STEL: 1000 ppm | N.D. | N.D. | STEL: 1000 ppm STEL: 1900 mg/m3 TWA: 137 ppm TWA: 260 mg/m3 |
| Isopropyl alcohol 67-63-0 | STEL: 400 ppm STEL: 1000 mg/m3 TWA: 200 ppm TWA: 500 mg/m3 | TWA: 200 ppm TWA: 490 mg/m3 | STEL: 400 ppm TWA: 200 ppm | N.D. | N.D. | N.D. |
| ISOBUTYL ALCOHOL 78-83-1 | STEL: 100 ppm STEL: 310 mg/m3 TWA: 100 ppm TWA: 310 mg/m3 | STEL: 50 ppm STEL: 150 mg/m3 | STEL: 225 mg/m3 STEL: 75 ppm TWA: 150 mg/m3 TWA: 50 ppm | N.D. | N.D. | N.D. |
| 1-METHOXY-2-PROPANOL 107-98-2 | STEL: 200 ppm STEL: 740 mg/m3 TWA: 100 ppm TWA: 370 mg/m3 | STEL: 150 ppm STEL: 568 mg/m3 TWA: 50 ppm TWA: 185 mg/m3 | STEL: 150 ppm STEL: 568 mg/m3 TWA: 100 ppm TWA: 375 mg/m3 | STEL: 150 ppm STEL: 568 mg/m3 TWA: 100 ppm TWA: 375 mg/m3 | STEL: 150 ppm STEL: 568 mg/m3 TWA: 100 ppm TWA: 375 mg/m3 | STEL: 150 ppm STEL: 563 mg/m3 TWA: 100 ppm TWA: 375 mg/m3 |
| N-BUTANOL 71-36-3 | STEL: 100 ppm STEL: 310 mg/m3 TWA: 100 ppm TWA: 310 mg/m3 | STEL: 50 ppm STEL: 150 mg/m3 | STEL: 60 ppm TWA: 20 ppm | N.D. | N.D. | N.D. |
| Bis(2-ethylhexyl) adipate 103-23-1 | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. |

| Chemical Name | Germany | Iceland | Ireland | Italy | Luxembourg | Netherlands |
|---|---|---|---|---|---|---|
| METHANOL<br>67-56-1 | STEL: 200 ppm<br>STEL: 260 mg/m3<br>TWA: 100 ppm<br>TWA: 130 mg/m3 | TWA: 200 ppm<br>TWA: 260 mg/m3 | STEL: 600 ppm<br>STEL: 780 mg/m3<br>TWA: 200 ppm<br>TWA: 260 mg/m3 | TWA: 200 ppm<br>TWA: 260 mg/m3 | TWA: 200 ppm<br>TWA: 260 mg/m3 | TWA: 100 ppm<br>TWA: 133 mg/m3 |
| Phosphoric acid<br>7664-38-2 | STEL: 4 mg/m3<br>TWA: 2 mg/m3 | STEL: 2 mg/m3<br>TWA: 1 mg/m3 | STEL: 2 mg/m3<br>TWA: 1 mg/m3 | STEL: 2 mg/m3<br>TWA: 1 mg/m3 | STEL: 2 mg/m3<br>TWA: 1 mg/m3 | STEL: 2 mg/m3<br>TWA: 1 mg/m3 |
| Ethylbenzene<br>100-41-4 | STEL: 40 ppm<br>STEL: 176 mg/m3<br>TWA: 20 ppm<br>TWA: 88 mg/m3 | STEL: 200 ppm<br>STEL: 884 mg/m3<br>TWA: 50 ppm<br>TWA: 200 mg/m3 | STEL: 200 ppm<br>STEL: 884 mg/m3<br>TWA: 100 ppm<br>TWA: 442 mg/m3 | STEL: 200 ppm<br>STEL: 884 mg/m3<br>TWA: 100 ppm<br>TWA: 442 mg/m3 | STEL: 200 ppm<br>STEL: 884 mg/m3<br>TWA: 100 ppm<br>TWA: 442 mg/m3 | STEL: 97.3 ppm<br>STEL: 430 mg/m3<br>TWA: 48.6 ppm<br>TWA: 215 mg/m3 |
| 2-Methoxy-1-methylethyl acetate<br>108-65-6 | STEL: 50 ppm<br>STEL: 270 mg/m3<br>TWA: 50 ppm<br>TWA: 270 mg/m3 | STEL: 100 ppm<br>STEL: 550 mg/m3<br>TWA: 50 ppm<br>TWA: 275 mg/m3 | STEL: 100 ppm<br>STEL: 550 mg/m3<br>TWA: 50 ppm<br>TWA: 275 mg/m3 | STEL: 100 ppm<br>STEL: 550 mg/m3<br>TWA: 50 ppm<br>TWA: 275 mg/m3 | STEL: 100 ppm<br>STEL: 550 mg/m3<br>TWA: 50 ppm<br>TWA: 275 mg/m3 | TWA: 100 ppm<br>TWA: 550 mg/m3 |

| Chemical Name | Norway | Portugal | Spain | Sweden | Switzerland | United Kingdom |
|---|---|---|---|---|---|---|
| ISOBUTYL ACETATE<br>110-19-0 | STEL: 723 mg/m3<br>STEL: 150 ppm<br>TWA: 241 mg/m3<br>TWA: 50 ppm | STEL: 723 mg/m3<br>STEL: 150 ppm<br>TWA: 50 ppm<br>TWA: 241 mg/m3 | STEL: 150 ppm<br>STEL: 723 mg/m3<br>TWA: 50 ppm<br>TWA: 241 mg/m3 | STEL: 150 ppm<br>STEL: 723 mg/m3<br>TWA: 50 ppm<br>TWA: 241 mg/m3 | STEL: 150 ppm<br>STEL: 720 mg/m3<br>TWA: 50 ppm<br>TWA: 240 mg/m3 | STEL: 187 ppm<br>STEL: 903 mg/m3<br>TWA: 150 ppm<br>TWA: 724 mg/m3 |
| Toluene<br>108-88-3 | STEL: 37.5 ppm<br>STEL: 141 mg/m3<br>TWA: 25 ppm<br>TWA: 94 mg/m3 | STEL: 100 ppm<br>STEL: 384 mg/m3<br>TWA: 50 ppm<br>TWA: 192 mg/m3 | STEL: 100 ppm<br>STEL: 384 mg/m3<br>TWA: 50 ppm<br>TWA: 192 mg/m3 | STEL: 100 ppm<br>STEL: 384 mg/m3<br>TWA: 50 ppm<br>TWA: 192 mg/m3 | STEL: 200 ppm<br>STEL: 760 mg/m3<br>TWA: 50 ppm<br>TWA: 190 mg/m3 | STEL: 100 ppm<br>STEL: 384 mg/m3<br>TWA: 50 ppm<br>TWA: 191 mg/m3 |
| Xylene<br>1330-20-7 | STEL: 37.5 ppm<br>STEL: 135 mg/m3<br>TWA: 25 ppm<br>TWA: 108 mg/m3 | STEL: 100 ppm<br>STEL: 442 mg/m3<br>TWA: 50 ppm<br>TWA: 221 mg/m3 | STEL: 100 ppm<br>STEL: 442 mg/m3<br>TWA: 50 ppm<br>TWA: 221 mg/m3 | STEL: 100 ppm<br>STEL: 442 mg/m3<br>TWA: 50 ppm<br>TWA: 221 mg/m3 | STEL: 100 ppm<br>STEL: 440 mg/m3<br>TWA: 50 ppm<br>TWA: 220 mg/m3 | STEL: 100 ppm<br>STEL: 441 mg/m3<br>TWA: 50 ppm<br>TWA: 220 mg/m3 |
| Ethanol<br>64-17-5 | STEL: 625 ppm<br>STEL: 1187.5 mg/m3<br>TWA: 500 ppm<br>TWA: 950 mg/m3 | STEL: 1000 ppm | STEL: 1000 ppm<br>STEL: 1910 mg/m3 | STEL: 1000 ppm<br>STEL: 1900 mg/m3<br>TWA: 500 ppm<br>TWA: 1000 mg/m3 | STEL: 1000 ppm<br>STEL: 1920 mg/m3<br>TWA: 500 ppm<br>TWA: 960 mg/m3 | STEL: 3000 ppm<br>STEL: 5760 mg/m3<br>TWA: 1000 ppm<br>TWA: 1920 mg/m3 |
| Isopropyl alcohol<br>67-63-0 | STEL: 150 ppm<br>STEL: 306.25 mg/m3<br>TWA: 100 ppm<br>TWA: 245 mg/m3 | STEL: 400 ppm<br>TWA: 200 ppm | STEL: 400 ppm<br>STEL: 1000 mg/m3<br>TWA: 200 ppm<br>TWA: 500 mg/m3 | STEL: 250 ppm<br>STEL: 600 mg/m3<br>TWA: 150 ppm<br>TWA: 350 mg/m3 | STEL: 400 ppm<br>STEL: 1000 mg/m3<br>TWA: 200 ppm<br>TWA: 500 mg/m3 | STEL: 500 ppm<br>STEL: 1250 mg/m3<br>TWA: 400 ppm<br>TWA: 999 mg/m3 |
| ISOBUTYL ALCOHOL<br>78-83-1 | N.D. | TWA: 50 ppm | TWA: 50 ppm<br>TWA: 154 mg/m3 | STEL: 75 ppm<br>STEL: 250 mg/m3<br>TWA: 50 ppm<br>TWA: 150 mg/m3 | STEL: 50 ppm<br>STEL: 150 mg/m3<br>TWA: 50 ppm<br>TWA: 150 mg/m3 | STEL: 75 ppm<br>STEL: 231 mg/m3<br>TWA: 50 ppm<br>TWA: 154 mg/m3 |
| 1-METHOXY-2-PROPANOL<br>107-98-2 | STEL: 75 ppm<br>STEL: 225 mg/m3<br>TWA: 50 ppm<br>TWA: 180 mg/m3 | STEL: 150 ppm<br>STEL: 568 mg/m3<br>TWA: 100 ppm<br>TWA: 375 mg/m3 | STEL: 150 ppm<br>STEL: 568 mg/m3<br>TWA: 100 ppm<br>TWA: 375 mg/m3 | STEL: 150 ppm<br>STEL: 568 mg/m3<br>TWA: 50 ppm<br>TWA: 190 mg/m3 | STEL: 200 ppm<br>STEL: 720 mg/m3<br>TWA: 100 ppm<br>TWA: 360 mg/m3 | STEL: 150 ppm<br>STEL: 560 mg/m3<br>TWA: 100 ppm<br>TWA: 375 mg/m3 |
| N-BUTANOL<br>71-36-3 | N.D. | TWA: 20 ppm | STEL: 50 ppm<br>STEL: 154 mg/m3<br>TWA: 20 ppm<br>TWA: 61 mg/m3 | STEL: 30 ppm<br>STEL: 90 mg/m3<br>TWA: 15 ppm<br>TWA: 45 mg/m3 | STEL: 100 ppm<br>STEL: 310 mg/m3<br>TWA: 100 ppm<br>TWA: 310 mg/m3 | STEL: 50 ppm<br>STEL: 154 mg/m3 |
| Bis(2-ethylhexyl) adipate<br>103-23-1 | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. |
| METHANOL<br>67-56-1 | STEL: 150 ppm<br>STEL: 162.5 mg/m3<br>TWA: 100 ppm<br>TWA: 130 mg/m3 | STEL: 250 ppm<br>TWA: 200 ppm<br>TWA: 260 mg/m3 | TWA: 200 ppm<br>TWA: 266 mg/m3 | STEL: 250 ppm<br>STEL: 350 mg/m3<br>TWA: 200 ppm<br>TWA: 250 mg/m3 | STEL: 400 ppm<br>STEL: 520 mg/m3<br>TWA: 200 ppm<br>TWA: 260 mg/m3 | STEL: 250 ppm<br>STEL: 333 mg/m3<br>TWA: 200 ppm<br>TWA: 266 mg/m3 |
| Phosphoric acid<br>7664-38-2 | STEL: 3 mg/m3<br>TWA: 1 mg/m3 | STEL: 2 mg/m3<br>TWA: 1 mg/m3 | STEL: 2 mg/m3<br>TWA: 1 mg/m3 | STEL: 2 mg/m3<br>TWA: 1 mg/m3 | STEL: 4 mg/m3<br>TWA: 2 mg/m3 | STEL: 2 mg/m3<br>TWA: 1 mg/m3 |

| Chemical Name | Norway | Portugal | Spain | Sweden | Switzerland | United Kingdom |
|---|---|---|---|---|---|---|
| Ethylbenzene 100-41-4 | STEL: 10 ppm STEL: 30 mg/m3 TWA: 5 ppm TWA: 20 mg/m3 | STEL: 200 ppm STEL: 884 mg/m3 TWA: 100 ppm TWA: 442 mg/m3 | STEL: 200 ppm STEL: 884 mg/m3 TWA: 100 ppm TWA: 441 mg/m3 | STEL: 200 ppm STEL: 884 mg/m3 TWA: 50 ppm TWA: 220 mg/m3 | STEL: 50 ppm STEL: 220 mg/m3 TWA: 50 ppm TWA: 220 mg/m3 | STEL: 125 ppm STEL: 552 mg/m3 TWA: 100 ppm TWA: 441 mg/m3 |
| 2-Methoxy-1-methylethyl acetate 108-65-6 | STEL: 75 ppm STEL: 337.5 mg/m3 TWA: 50 ppm TWA: 270 mg/m3 | STEL: 100 ppm STEL: 550 mg/m3 TWA: 50 ppm TWA: 275 mg/m3 | STEL: 100 ppm STEL: 550 mg/m3 TWA: 50 ppm TWA: 275 mg/m3 | STEL: 100 ppm STEL: 550 mg/m3 TWA: 50 ppm TWA: 275 mg/m3 | STEL: 50 ppm STEL: 275 mg/m3 TWA: 50 ppm TWA: 275 mg/m3 | STEL: 100 ppm STEL: 548 mg/m3 TWA: 50 ppm TWA: 274 mg/m3 |

TWA: Time weighted average

STEL: Short term exposure limit.

**EU - REACH (1906/2006) Registration Data - Derived No Effect Levels (DNELs)**

| Chemical Name | CAS Number | DNEL |
|---|---|---|
| ISOBUTYL ACETATE | 110-19-0 | general population dermal systemic effects long term exposure 5 mg/kg bw/day DNEL (203-745-1); general population dermal systemic effects acute/short term exposure 5 mg/kg bw/day DNEL (203-745-1); general population oral systemic effects long term exposure 5 mg/kg bw/day DNEL (203-745-1); general population oral systemic effects acute/short term exposure 5 mg/kg bw/day DNEL (203-745-1); workers dermal systemic effects long term exposure 10 mg/kg bw/day DNEL (203-745-1); workers dermal systemic effects acute/short term exposure 10 mg/kg bw/day DNEL (203-745-1); general population inhalation systemic effects long term exposure 35.7 mg/m3 DNEL (203-745-1); general population inhalation local effects long term exposure 35.7 mg/m3 DNEL (203-745-1); workers inhalation systemic effects long term exposure 300 mg/m3 DNEL (203-745-1); workers inhalation local effects long term exposure 300 mg/m3 DNEL (203-745-1); general population inhalation systemic effects acute/short term exposure 300 mg/m3 DNEL (203-745-1); general population inhalation local effects acute/short term exposure 300 mg/m3 DNEL (203-745-1); workers inhalation systemic effects acute/short term exposure 600 mg/m3 DNEL (203-745-1); workers inhalation local effects acute/short term exposure 600 mg/m3 DNEL (203-745-1) |
| Toluene | 108-88-3 | general population oral systemic effects long term exposure 8.13 mg/kg bw/day DNEL (203-625-9); general population inhalation systemic effects long term exposure 56.5 mg/m3 DNEL (203-625-9); general population inhalation local effects long term exposure 56.5 mg/m3 DNEL (203-625-9); workers inhalation systemic effects long term exposure 192 mg/m3 DNEL (203-625-9); workers inhalation local effects long term exposure 192 mg/m3 DNEL (203-625-9); general population inhalation systemic effects acute/short term exposure 226 mg/m3 DNEL (203-625-9); general population inhalation local effects acute/short term exposure 226 mg/m3 DNEL (203-625-9); general population dermal systemic effects long term exposure 226 mg/kg bw/day DNEL (203-625-9); workers inhalation systemic effects acute/short term exposure 384 mg/m3 DNEL (203-625-9); workers inhalation local effects acute/short term exposure 384 mg/m3 DNEL (203-625-9); workers dermal systemic effects long term exposure 384 mg/kg bw/day DNEL (203-625-9) |

| Chemical Name | CAS Number | DNEL |
|---|---|---|
| Xylene | 1330-20-7 | general population oral systemic effects long term exposure 12.5 mg/kg bw/day DNEL (215-535-7); general population inhalation systemic effects long term exposure 65.3 mg/m3 DNEL (215-535-7); general population inhalation local effects long term exposure 65.3 mg/m3 DNEL (215-535-7); general population dermal systemic effects long term exposure 125 mg/kg bw/day DNEL (215-535-7); workers dermal systemic effects long term exposure 212 mg/kg bw/day DNEL (215-535-7); workers inhalation systemic effects long term exposure 221 mg/m3 DNEL (215-535-7); workers inhalation local effects long term exposure 221 mg/m3 DNEL (215-535-7); general population inhalation systemic effects acute/short term exposure 260 mg/m3 DNEL (215-535-7); general population inhalation local effects acute/short term exposure 260 mg/m3 DNEL (215-535-7); workers inhalation systemic effects acute/short term exposure 442 mg/m3 DNEL (215-535-7); workers inhalation local effects acute/short term exposure 442 mg/m3 DNEL (215-535-7) |
| Ethanol | 64-17-5 | general population oral systemic effects long term exposure 87 mg/kg bw/day DNEL (200-578-6); general population inhalation systemic effects long term exposure 114 mg/m3 DNEL (200-578-6); general population dermal systemic effects long term exposure 206 mg/kg bw/day DNEL (200-578-6); workers dermal systemic effects long term exposure 343 mg/kg bw/day DNEL (200-578-6); workers inhalation systemic effects long term exposure 950 mg/m3 DNEL (200-578-6); general population inhalation local effects acute/short term exposure 950 mg/m3 DNEL (200-578-6); workers inhalation local effects acute/short term exposure 1900 mg/m3 DNEL (200-578-6) |
| Isopropyl alcohol | 67-63-0 | general population oral systemic effects long term exposure 26 mg/kg bw/day DNEL (200-661-7); general population inhalation systemic effects long term exposure 89 mg/m3 DNEL (200-661-7); general population dermal systemic effects long term exposure 319 mg/kg bw/day DNEL (200-661-7); workers inhalation systemic effects long term exposure 500 mg/m3 DNEL (200-661-7); workers dermal systemic effects long term exposure 888 mg/kg bw/day DNEL (200-661-7); workers inhalation systemic effects acute/short term exposure 1000 mg/m3 DNEL (200-661-7); general population inhalation systemic effects acute/short term exposure 178 mg/m3 DNEL (200-661-7); general population oral systemic effects acute/short term exposure 51 mg/kg bw/day DNEL |
| ISOBUTYL ALCOHOL | 78-83-1 | general population inhalation local effects long term exposure 55 mg/m3 DNEL (201-148-0); workers inhalation local effects long term exposure 310 mg/m3 DNEL (201-148-0) |
| 1-METHOXY-2-PROPANOL | 107-98-2 | general population oral systemic effects long term exposure 33 mg/kg bw/day DNEL (203-539-1); general population inhalation systemic effects long term exposure 43.9 mg/m3 DNEL (203-539-1); general population dermal systemic effects long term exposure 78 mg/kg bw/day DNEL (203-539-1); workers dermal systemic effects long term exposure 183 mg/kg bw/day DNEL (203-539-1); workers inhalation systemic effects long term exposure 369 mg/m3 DNEL (203-539-1); workers inhalation systemic effects acute/short term exposure 553.5 mg/m3 DNEL (203-539-1); workers inhalation local effects acute/short term exposure 553.5 mg/m3 DNEL (203-539-1) |
| N-BUTANOL | 71-36-3 | general population oral systemic effects long term exposure 1.5625 mg/kg bw/day DNEL (200-751-6); general population dermal systemic effects long term exposure 3.125 mg/kg bw/day DNEL (200-751-6); general population inhalation systemic effects long term exposure 55.357 mg/m3 DNEL (200-751-6); general population inhalation local effects long term exposure 155 mg/m3 DNEL (200-751-6); workers inhalation local effects long term exposure 310 mg/m3 DNEL (200-751-6) |

| Chemical Name | CAS Number | DNEL |
|---|---|---|
| Bis(2-ethylhexyl) adipate | 103-23-1 | general population oral systemic effects long term exposure 1.7 mg/kg bw/day DNEL (203-090-1); general population inhalation systemic effects long term exposure 4.4 mg/m3 DNEL (203-090-1); general population dermal systemic effects long term exposure 13 mg/kg bw/day DNEL (203-090-1); workers inhalation systemic effects long term exposure 17.8 mg/m3 DNEL (203-090-1); workers dermal systemic effects long term exposure 25.5 mg/kg bw/day DNEL (203-090-1) |
| METHANOL | 67-56-1 | general population dermal systemic effects long term exposure 4 mg/kg bw/day DNEL (200-659-6); general population dermal systemic effects acute/short term exposure 4 mg/kg bw/day DNEL (200-659-6); general population oral systemic effects long term exposure 4 mg/kg bw/day DNEL (200-659-6); general population oral systemic effects acute/short term exposure 4 mg/kg bw/day DNEL (200-659-6); workers dermal systemic effects long term exposure 20 mg/kg bw/day DNEL (200-659-6); workers dermal systemic effects acute/short term exposure 20 mg/kg bw/day DNEL (200-659-6); general population inhalation systemic effects long term exposure 26 mg/m3 DNEL (200-659-6); general population inhalation systemic effects acute/short term exposure 26 mg/m3 DNEL (200-659-6); general population inhalation local effects long term exposure 26 mg/m3 DNEL (200-659-6); general population inhalation local effects acute/short term exposure 26 mg/m3 DNEL (200-659-6); workers inhalation systemic effects long term exposure 130 mg/m3 DNEL (200-659-6); workers inhalation systemic effects acute/short term exposure 130 mg/m3 DNEL (200-659-6); workers inhalation local effects long term exposure 130 mg/m3 DNEL (200-659-6); workers inhalation local effects acute/short term exposure 130 mg/m3 DNEL (200-659-6) |
| Ethylbenzene | 100-41-4 | general population oral systemic effects long term exposure 1.6 mg/kg bw/day DNEL (202-849-4); general population inhalation systemic effects long term exposure 15 mg/m3 DNEL (202-849-4); workers inhalation systemic effects long term exposure 77 mg/m3 DNEL (202-849-4); workers dermal systemic effects long term exposure 180 mg/kg bw/day DNEL (202-849-4); workers inhalation local effects acute/short term exposure 293 mg/m3 DNEL (202-849-4) |
| 2-Methoxy-1-methylethyl acetate | 108-65-6 | general population inhalation systemic effects long term exposure 33 mg/m3 DNEL (203-603-9); general population inhalation local effects long term exposure 33 mg/m3 DNEL (203-603-9); general population oral systemic effects long term exposure 36 mg/kg bw/day DNEL (203-603-9); workers inhalation systemic effects long term exposure 275 mg/m3 DNEL (203-603-9); general population dermal systemic effects long term exposure 320 mg/kg bw/day DNEL (203-603-9); workers inhalation local effects acute/short term exposure 550 mg/m3 DNEL (203-603-9); workers dermal systemic effects long term exposure 796 mg/kg bw/day DNEL (203-603-9) |

**EU - REACH (1906/2006) Registration Data - Predicted No Effect Concentrations (PNECs)**

| Chemical Name | CAS Number | PNEC |
|---|---|---|
| ISOBUTYL ACETATE | 110-19-0 | 0.17 mg/L PNEC (freshwater, 203-745-1); 0.017 mg/L PNEC (marine water, 203-745-1); 0.34 mg/L PNEC (freshwater (intermittent releases), 203-745-1); 0.877 mg/kg sediment dw PNEC (sediment (freshwater), 203-745-1); 0.0877 mg/kg sediment dw PNEC (sediment (marine water), 203-745-1); 200 mg/L PNEC (sewage treatment, 203-745-1); 0.0755 mg/kg soil dw PNEC (soil, 203-745-1) |
| Toluene | 108-88-3 | 0.68 mg/L PNEC (freshwater, 203-625-9); 0.68 mg/L PNEC (marine water, 203-625-9); 0.68 mg/L PNEC (freshwater (intermittent releases), 203-625-9); 16.39 mg/kg sediment dw PNEC (sediment (freshwater), 203-625-9); 16.39 mg/kg sediment dw PNEC (sediment (marine water), 203-625-9); 13.61 mg/L PNEC (sewage treatment, 203-625-9); 2.89 mg/kg soil dw PNEC (soil, 203-625-9) |

| Chemical Name | CAS Number | PNEC |
|---|---|---|
| Xylene | 1330-20-7 | 0.327 mg/L PNEC (freshwater, 215-535-7); 0.327 mg/L PNEC (marine water, 215-535-7); 0.327 mg/L PNEC (freshwater (intermittent releases), 215-535-7); 12.46 mg/kg sediment dw PNEC (sediment (freshwater), 215-535-7); 12.46 mg/kg sediment dw PNEC (sediment (marine water), 215-535-7); 6.58 mg/L PNEC (sewage treatment, 215-535-7); 2.31 mg/kg soil dw PNEC (soil, 215-535-7) |
| ISOBUTYL ALCOHOL | 78-83-1 | 0.4 mg/L PNEC (freshwater, 201-148-0); 0.04 mg/L PNEC (marine water, 201-148-0); 11 mg/L PNEC (freshwater (intermittent releases), 201-148-0); 1.56 mg/kg sediment dw PNEC (sediment (freshwater), 201-148-0); 0.156 mg/kg sediment dw PNEC (sediment (marine water), 201-148-0); 10 mg/L PNEC (sewage treatment, 201-148-0); 0.0765 mg/kg soil dw PNEC (soil, 201-148-0) |
| 1-METHOXY-2-PROPANOL | 107-98-2 | 10 mg/L PNEC (freshwater, 203-539-1); 1 mg/L PNEC (marine water, 203-539-1); 100 mg/L PNEC (freshwater (intermittent releases), 203-539-1); 52.3 mg/kg sediment dw PNEC (sediment (freshwater), 203-539-1); 5.2 mg/kg sediment dw PNEC (sediment (marine water), 203-539-1); 100 mg/L PNEC (sewage treatment, 203-539-1); 4.59 mg/kg soil dw PNEC (soil, 203-539-1) |
| N-BUTANOL | 71-36-3 | 0.082 mg/L PNEC (freshwater, 200-751-6); 0.0082 mg/L PNEC (marine water, 200-751-6); 2.25 mg/L PNEC (freshwater (intermittent releases), 200-751-6); 0.324 mg/kg sediment dw PNEC (sediment (freshwater), 200-751-6); 0.0324 mg/kg sediment dw PNEC (sediment (marine water), 200-751-6); 2476 mg/L PNEC (sewage treatment, 200-751-6); 0.0166 mg/kg soil dw PNEC (soil, 200-751-6) |
| Bis(2-ethylhexyl) adipate | 103-23-1 | 0.865 mg/kg soil dw PNEC (soil, 203-090-1) |
| METHANOL | 67-56-1 | 20.8 mg/L PNEC (freshwater, 200-659-6); 2.08 mg/L PNEC (marine water, 200-659-6); 1540 mg/L PNEC (freshwater (intermittent releases), 200-659-6); 77 mg/kg sediment dw PNEC (sediment (freshwater), 200-659-6); 7.7 mg/kg sediment dw PNEC (sediment (marine water), 200-659-6); 100 mg/L PNEC (sewage treatment, 200-659-6); 100 mg/kg soil dw PNEC (soil, 200-659-6) |
| 2-Methoxy-1-methylethyl acetate | 108-65-6 | 0.635 mg/L PNEC (freshwater, 203-603-9); 0.0635 mg/L PNEC (marine water, 203-603-9); 6.35 mg/L PNEC (freshwater (intermittent releases), 203-603-9); 3.29 mg/kg sediment dw PNEC (sediment (freshwater), 203-603-9); 0.329 mg/kg sediment dw PNEC (sediment (marine water), 203-603-9); 100 mg/L PNEC (sewage treatment, 203-603-9); 0.29 mg/kg soil dw PNEC (soil, 203-603-9) |

**EU - REACH (1906/2006) Article 59(1) - Candidate Substances of Very High Concern (SVHC)**

None

### 8.2. Exposure controls

**Engineering Measures.**

Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation. Use explosion-proof electrical/ ventilating/ lighting/ equipment. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

**Personal protective equipment.**

**Eye/Face Protection.**

Tightly fitting safety goggles. If splashes are likely to occur, wear:. Face-shield. Chemical resistant goggles must be worn.

**Skin and body protection.**

No special protective equipment required. Solvent-resistant gloves. Protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. Follow the skin protection plan. Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Flame retardant antistatic protective clothing. Antistatic boots.

The selected protective gloves have to satisfy the specifications of EU Regulation (EU) 2016/425 and the standard EN 374 derived from it.

**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. In case of inadequate ventilation wear respiratory protection. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. In the case of dust or aerosol formation use respirator with an approved filter. Breathing apparatus with filter. Respirator with filter for organic vapor.

**Environmental Exposure Controls.**

Prevent product from entering drains.

## SECTION 9: Physical and chemical properties

**9.1. Information on basic physical and chemical properties**

| | |
|---|---|
| **Physical state** | Liquid |
| **Appearance** | No Information |
| **Colour** | No Information |
| **Odour** | No Information |
| **Odour Threshold** | No Information |
| **pH** | No Information |
| **Melting Point, °C** | No Information |
| **Flash Point, °C** | 4 |
| **Boiling Range, °C** | 78 - 378 |
| **Combustibility** | Does not Support Combustion |
| **Vapor Pressure, mmHg** | No Information |
| **Vapor density** | No Information |
| **Specific Gravity (g/cm3)** | Not Applicable |
| **Solubility in water** | No Information |
| **Partition Coefficient, n-octanol/water** | No Information |
| **Auto-Ignition Temperature, °C** | No Information |
| **Decomposition temperature, °C** | No Information |
| **Viscosity** | No Information |

**9.2. Other information**

| | |
|---|---|
| **Volatile organic compounds (VOC) content.** | 668.450746399 |

**9.2.1. Information with regard to physical hazard classes**

No Information

**9.2.2. Other safety characteristics**

| | |
|---|---|
| **Evaporation rate** | No Information Available |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Flammable.

### 10.2. Chemical stability

Stable under recommended storage conditions. Risk of ignition. To avoid thermal decomposition, do not overheat. Keep away from open flames, hot surfaces and sources of ignition.

### 10.3. Possibility of hazardous reactions

None known based on information supplied.

### 10.4. Conditions to avoid

Excessive heat. Storage near to reactive materials. Take precautionary measures against static discharges. Direct sources of heat.

### 10.5. Incompatible materials

Reducing agents. Risk of explosion if heated under confinement. Vapors are flammable. May form explosive mixtures in air. Oxidizing agents.

### 10.6. Hazardous decomposition products

Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

# SECTION 11: Toxicological information

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

**Acute toxicity.**

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

**Product Information**

The product itself has not been tested
Data on individual components are tabulated below

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

| | |
|---|---|
| **ATEmix (oral)** | >5000 mg/kg |
| **ATEmix (dermal)** | N.R. |
| **ATEmix (inhalation-vapor)** | 901.03 mg/l |

| CAS-No. | Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|---|---|---|---|
| 110-19-0 | ISOBUTYL ACETATE | 15400 mg/kg Rat | >17400 mg/kg Rabbit | N.R. |
| 108-88-3 | Toluene | 2600 mg/kg Rat | 12000 mg/kg Rabbit | N.R. |
| 1330-20-7 | Xylene | 3500 mg/kg Rat | >4350 mg/kg Rabbit | N.R. |
| 64-17-5 | Ethanol | 7060 mg/kg Rat | N.R. | 116.9 mg/L, 133.8 mg/L Rat |
| 67-63-0 | Isopropyl alcohol | 4710 - 5840 mg/kg Rat | 4059 mg/kg Rabbit | N.R. |
| 78-83-1 | ISOBUTYL ALCOHOL | 2460 mg/kg Rat | 3400 mg/kg Rabbit | >18.18 mg/L Rat |
| 107-98-2 | 1-METHOXY-2-PROPANOL | N.R. | N.R. | N.R. |
| 71-36-3 | N-BUTANOL | 700 mg/kg Rat | 3402 mg/kg Rabbit | N.R. |
| 103-23-1 | Bis(2-ethylhexyl) adipate | 5600 mg/kg Rat | 8410 mg/kg Rabbit | N.R. |
| 67-56-1 | METHANOL | 6200 mg/kg Rat | 15840 mg/kg Rabbit | 22500 ppm Rat |
| 7664-38-2 | Phosphoric acid | 1530 mg/kg Rat | 2740 mg/kg Rabbit | 3.8 mg/L Rat |
| 100-41-4 | Ethylbenzene | 3500 mg/kg Rat | 15400 mg/kg Rabbit | 17.2 mg/L |
| 108-65-6 | 2-Methoxy-1-methylethyl acetate | N.R. | N.R. | N.R. |

**Skin corrosion/irritation.**

Irritating to skin. May cause irritation. May cause skin irritation. SKIN IRRITANT.

**Eye damage/irritation.**

Causes serious eye damage.

**Respiratory or skin sensitization.**

May cause irritation. May cause drowsiness.

**Specific target organ systemic toxicity (single exposure).**

Vapors may cause drowsiness and dizziness.

**Specific target organ systemic toxicity (repeated exposure).**

Specific target organ systemic toxicity (repeated exposure). May cause damage to organs through prolonged or repeated exposure.

## 11.2. Information on other hazards

**Endocrine disrupting properties**

N.A.

**Other information.**

N.A.

# SECTION 12: Ecological information

## 12.1. Toxicity

8.41% of the mixture consists of components(s) of unknown hazards to the aquatic environment

**Ecotoxicity effects.**

| Chemical Name | Toxicity to algae | Toxicity to fish | Toxicity to daphnia. |
|---|---|---|---|
| ISOBUTYL ACETATE 110-19-0 | N.D. | LC50 96 h Oryzias latipes 17 mg/L | N.D. |

| | | | |
|---|---|---|---|
| Toluene<br>108-88-3 | EC50 96 h Pseudokirchneriella subcapitata >433 mg/L, EC50 72 h Pseudokirchneriella subcapitata 12.5 mg/L | LC50 96 h Pimephales promelas 15.22 - 19.05 mg/L, LC50 96 h Pimephales promelas 12.6 mg/L, LC50 96 h Oncorhynchus mykiss 5.89 - 7.81 mg/L, LC50 96 h Oncorhynchus mykiss 14.1 - 17.16 mg/L, LC50 96 h Oncorhynchus mykiss 5.8 mg/L, LC50 96 h Lepomis macrochirus 11.0 - 15.0 mg/L, LC50 96 h Oryzias latipes 54 mg/L, LC50 96 h Poecilia reticulata 28.2 mg/L, LC50 96 h Poecilia reticulata 50.87 - 70.34 mg/L | EC50 48 h Daphnia magna 5.46 - 9.83 mg/L, EC50 48 h Daphnia magna 11.5 mg/L |
| Xylene<br>1330-20-7 | N.D. | LC50 96 h Pimephales promelas 13.4 mg/L, LC50 96 h Oncorhynchus mykiss 2.661 - 4.093 mg/L, LC50 96 h Oncorhynchus mykiss 13.5 - 17.3 mg/L, LC50 96 h Lepomis macrochirus 13.1 - 16.5 mg/L, LC50 96 h Lepomis macrochirus 19 mg/L, LC50 96 h Lepomis macrochirus 7.711 - 9.591 mg/L, LC50 96 h Pimephales promelas 23.53 - 29.97 mg/L, LC50 96 h Cyprinus carpio 780 mg/L, LC50 96 h Cyprinus carpio >780 mg/L, LC50 96 h Poecilia reticulata 30.26 - 40. | EC50 48 h water flea 3.82 mg/L, LC50 48 h Gammarus lacustris 0.6 mg/L |
| Ethanol<br>64-17-5 | N.D. | LC50 96 h Oncorhynchus mykiss 12.0 - 16.0 mL/L, LC50 96 h Pimephales promelas >100 mg/L, LC50 96 h Pimephales promelas 13400 - 15100 mg/L | LC50 48 h Daphnia magna 9268 - 14221 mg/L, EC50 48 h Daphnia magna 2 mg/L |
| Isopropyl alcohol<br>67-63-0 | EC50 96 h Desmodesmus subspicatus >1000 mg/L, EC50 72 h Desmodesmus subspicatus >1000 mg/L | LC50 96 h Pimephales promelas 9640 mg/L, LC50 96 h Pimephales promelas 11130 mg/L, LC50 96 h Lepomis macrochirus >1400000 µg/L | EC50 48 h Daphnia magna 13299 mg/L |
| ISOBUTYL ALCOHOL<br>78-83-1 | N.D. | LC50 96 h Pimephales promelas 375 mg/L, LC50 96 h Pimephales promelas 1370 - 1670 mg/L, LC50 96 h Lepomis macrochirus 1480 - 1730 mg/L, LC50 96 h Oncorhynchus mykiss 1120 - 1520 mg/L | EC50 48 h Daphnia magna 1300 mg/L, EC50 48 h Daphnia magna 1070 - 1933 mg/L |
| 1-METHOXY-2-PROPANOL<br>107-98-2 | N.D. | LC50 96 h Pimephales promelas 20.8 g/L | EC50 48 h Daphnia magna 23300 mg/L |
| N-BUTANOL<br>71-36-3 | EC50 96 h Desmodesmus subspicatus >500 mg/L, EC50 72 h Desmodesmus subspicatus >500 mg/L | LC50 96 h Pimephales promelas 1730 - 1910 mg/L, LC50 96 h Pimephales promelas 1740 mg/L, LC50 96 h Lepomis macrochirus 100000 - 500000 µg/L, LC50 96 h Pimephales promelas 1910000 µg/L | EC50 48 h Daphnia magna 1983 mg/L, EC50 48 h Daphnia magna 1897 - 2072 mg/L |
| Bis(2-ethylhexyl) adipate<br>103-23-1 | EC50 72 h Desmodesmus subspicatus >500 mg/L | LC50 96 h Lepomis macrochirus 0.48 - 0.85 mg/L, LC50 96 h Oncorhynchus mykiss 0.48 - 0.85 mg/L, LC50 96 h Pimephales promelas 0.48 - 0.85 mg/L | EC50 48 h Daphnia magna >1.6 mg/L |

| | | | |
|---|---|---|---|
| METHANOL<br>67-56-1 | N.D. | LC50 96 h Pimephales promelas 28200 mg/L, LC50 96 h Pimephales promelas >100 mg/L, LC50 96 h Oncorhynchus mykiss 19500 - 20700 mg/L, LC50 96 h Oncorhynchus mykiss 18 - 20 mL/L, LC50 96 h Lepomis macrochirus 13500 - 17600 mg/L | N.D. |
| Phosphoric acid<br>7664-38-2 | N.D. | N.D. | N.D. |
| Ethylbenzene<br>100-41-4 | EC50 72 h Pseudokirchneriella subcapitata 4.6 mg/L, EC50 96 h Pseudokirchneriella subcapitata >438 mg/L, EC50 72 h Pseudokirchneriella subcapitata 2.6 - 11.3 mg/L, EC50 96 h Pseudokirchneriella subcapitata 1.7 - 7.6 mg/L | LC50 96 h Oncorhynchus mykiss 11.0 - 18.0 mg/L, LC50 96 h Oncorhynchus mykiss 4.2 mg/L, LC50 96 h Pimephales promelas 7.55 - 11 mg/L, LC50 96 h Lepomis macrochirus 32 mg/L, LC50 96 h Pimephales promelas 9.1 - 15.6 mg/L, LC50 96 h Poecilia reticulata 9.6 mg/L | EC50 48 h Daphnia magna 1.8 - 2.4 mg/L |
| 2-Methoxy-1-methylethyl acetate<br>108-65-6 | N.D. | LC50 96 h Pimephales promelas 161 mg/L | EC50 48 h Daphnia magna >500 mg/L |

### 12.2. Persistence and degradability
No data are available on the product itself

### 12.3. Bioaccumulative potential
Discharge into the environment must be avoided.

| CAS-No. | Chemical Name | Bio. Conc. Factor (BCF) | Octanol-water par. Coeff (KOW) |
|---|---|---|---|
| 110-19-0 | ISOBUTYL ACETATE | N.I. | 2.3 |
| 108-88-3 | Toluene | N.I. | 2.73 |
| 1330-20-7 | Xylene | N.I. | 2.77 - 3.15 |
| 64-17-5 | Ethanol | N.I. | -0.35 |
| 67-63-0 | Isopropyl alcohol | N.I. | 0.05 |
| 78-83-1 | ISOBUTYL ALCOHOL | N.I. | 1 |
| 107-98-2 | 1-METHOXY-2-PROPANOL | N.I. | <1 |
| 71-36-3 | N-BUTANOL | N.I. | 1 |
| 103-23-1 | Bis(2-ethylhexyl) adipate | N.I. | 8.94 |
| 67-56-1 | METHANOL | N.I. | -0.77 |
| 7664-38-2 | Phosphoric acid | N.I. | N.I. |
| 100-41-4 | Ethylbenzene | N.I. | 3.6 |
| 108-65-6 | 2-Methoxy-1-methylethyl acetate | N.I. | 1.2 |

### 12.4. Mobility in soil
**Mobility in soil.**
No information available

### 12.5. Results of PBT and vPvB assessment
No data are available on the product itself

### 12.6. Endocrine disrupting properties
No information available

### 12.7. Other adverse effects
No information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods
**Waste from residues / unused products.**
Disposal should be in accordance with applicable regional, national and local laws and regulations. Dispose of contents/container to an approved waste disposal plant.

**Contaminated packaging.**
Do not re-use empty containers.

**Other information.**
According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

## SECTION 14: Transport information

**ADR**

| | |
|---|---|
| **14.1. UN number or ID number** | 1263 |
| **14.2. UN proper shipping name** | Paint Related Material |
| **14.3. Transport hazard class(es)** | 3 |
| **14.4. Packing group** | II |
| **14.5. Environmental hazards** | No. |
| **14.6. Special precautions for user** | No Information |

**IMDG**

| | |
|---|---|
| **14.1. UN number or ID number** | 1263 |
| **14.2. UN proper shipping name** | Paint Related Material |
| **14.3. Transport hazard class(es)** | 3 |
| **14.4. Packing group** | II |
| **14.5 Marine Pollutant** | No. |
| **Environmental hazards** | No. |
| **14.6. Special precautions for user** | No Information |
| **14.7. Maritime transport in bulk according to IMO instruments** | No Information |

**IATA**

| | |
|---|---|
| **14.1. UN number or ID number** | 1263 |
| **14.2. UN proper shipping name** | Paint Related Material |
| **14.3. Transport hazard class(es)** | 3 |
| **14.4. Packing group** | II |
| **14.5. Environmental hazards** | No. |
| **14.6. Special precautions for user** | No Information |

## SECTION 15: Regulatory information

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

**National regulatory information.**

**French table of occupational diseases**

| CAS-No. | Chemical Name | French table of occupational diseases |
|---|---|---|
| 110-19-0 | ISOBUTYL ACETATE | RG 84 |
| 64-17-5 | Ethanol | RG 84 |
| 67-63-0 | Isopropyl alcohol | RG 84 |
| 78-83-1 | ISOBUTYL ALCOHOL | RG 84 |
| 107-98-2 | 1-METHOXY-2-PROPANOL | RG 84 |
| 71-36-3 | N-BUTANOL | RG 84 |
| 67-56-1 | METHANOL | RG 84 |
| 100-41-4 | Ethylbenzene | RG 84 |
| 108-65-6 | 2-Methoxy-1-methylethyl acetate | RG 84 |

### 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

**Persistent Organic Pollutants**

Not applicable

**Authorizations and/or restrictions on use:**

| CAS-No. | Chemical Name | Substance subject to authorization per REACH Annex XIV | Restricted substance per REACH Annex XVII |
|---|---|---|---|
| 108-88-3 | Toluene | No. | Yes. |
| 1330-20-7 | Xylene | No. | Yes. |
| 67-63-0 | Isopropyl alcohol | No. | Yes. |
| 78-83-1 | ISOBUTYL ALCOHOL | No. | Yes. |
| 71-36-3 | N-BUTANOL | No. | Yes. |
| 67-56-1 | METHANOL | No. | Yes. |
| 7664-38-2 | Phosphoric acid | No. | Yes. |

**EU Substances of Very High Concern**

None

### International Inventories.

| | |
|---|---|
| **TSCA** | Contains Non Listed Components |
| **DSL** | Contains Non Listed Components |
| **EINECS/ELINCS** | Contains Non Listed Components |
| **ENCS** | Contains Non Listed Components |
| **IECSC** | Contains Non Listed Components |
| **KECI** | Contains Non Listed Components |
| **PICCS** | Contains Non Listed Components |
| **AIIC** | Contains Non Listed Components |
| **NZIoC** | Contains Non Listed Components |

| | |
|---|---|
| **TSCA** | United States Toxic Substances Control Act Section 8(b) Inventory. |
| **DSL** | Canadian 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**

No.

## SECTION 16: Other information

| | |
|---|---|
| **Revision Date** | 11/26/2024 |
| **Indication of changes:** | Commission Regulation (EU) 2020/878: amending Annex II by introducing specific requirements regarding nanoforms of substances, adapting to the 6th and 7th revision of the GHS, and adding requirements regarding the Unique Formula Identifier (as set by Annex VIII to Regulation (EC) 1272/2008), endocrine disrupting properties, specific concentration limits, M-factors and acute toxicity estimates. |

**Legend.**

| | |
|---|---|
| N.D. | No data available. |
| N.I. | No information available. |
| N.A. | Not Applicable. |
| N.R. | Not relevant. |

This safety datasheet complies with the requirements of Regulation (EC) No. 2020/878

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.