

SAFETY DATA SHEET



1-185 1K Primer

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

1.1 Product identifier

Product name : 1-185 1K Primer
Product type : Liquid.

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

Identified uses

Professional spray painting, near-industrial setting
Use in coatings - Priming materials and coatings

Uses advised against

Not applicable.

1.3 Details of the supplier of the safety data sheet

Valspar b.v.
Zuiveringweg 89
8243 PE Lelystad
The Netherlands
tel: +31 (0)320 292200

e-mail address of person responsible for this SDS : msds@valspar.com

National contact

GPS Automotive Lelystad
tel: +31 (0)320 292288

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number : UK: 0-800-014-8126
CALL: +(44)-870-8200418 (Hours of operation - 24 hours)

Ireland: +353 1 8092566 Beaumont Hospital - National Poisons Information Centre
CALL: +(353)-19014670 (Hours of operation - 24 hours)

Supplier

Telephone number : Call: +31 (0)320 292200 (8:30AM - 5PM)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

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

Flam. Liq. 3, H226
Skin Irrit. 2, H315
Eye Dam. 1, H318
STOT SE 3, H335
STOT SE 3, H336
STOT RE 2, H373
Asp. Tox. 1, H304
Aquatic Chronic 2, H411

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

SECTION 2: Hazards identification

2.2 Label elements

Hazard pictograms :



Signal word :

Danger

Hazard statements :

Flammable liquid and vapour.
 May be fatal if swallowed and enters airways.
 Causes skin irritation.
 Causes serious eye damage.
 May cause respiratory irritation.
 May cause drowsiness or dizziness.
 May cause damage to organs through prolonged or repeated exposure.
 Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention :

Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment.

Response :

Collect spillage.

Storage :

Store in a well-ventilated place. Keep container tightly closed.

Disposal :

Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazardous ingredients :

n-butyl acetate; xylene and butan-1-ol

Supplemental label elements :

Contains formaldehyde. May produce an allergic reaction.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles :

Not applicable.

Special packaging requirements

Containers to be fitted with child-resistant fastenings :

Not applicable.

Tactile warning of danger :

Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII :

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do not result in classification :

None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures :

Mixture

SECTION 3: Composition/information on ingredients

| Product/ingredient name | Identifiers | % | Classification | Specific Conc. Limits, M-factors and ATEs | Type |
|--|--|-----------|--|---|---------|
| n-butyl acetate | REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1 | ≥25 - ≤50 | Flam. Liq. 3, H226 STOT SE 3, H336 EUH066 | - | [1] [2] |
| xylene | REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9 | ≥10 - <25 | Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 | ATE [Dermal] = 1100 mg/kg ATE [Inhalation (gases)] = 5000 ppm | [1] [2] |
| butan-1-ol | REACH #: 01-2119484630-38 EC: 200-751-6 CAS: 71-36-3 Index: 603-004-00-6 | ≤10 | Flam. Liq. 3, H226 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336 | ATE [Oral] = 790 mg/kg | [1] |
| 1-methoxy-2-propanol | REACH #: 01-2119457435-35 EC: 203-539-1 CAS: 107-98-2 Index: 603-064-00-3 | ≤10 | Flam. Liq. 3, H226 STOT SE 3, H336 | - | [1] [2] |
| trizinc bis(orthophosphate) | REACH #: 01-2119485044-40 EC: 231-944-3 CAS: 7779-90-0 Index: 030-011-00-6 | ≤5 | Aquatic Acute 1, H400 Aquatic Chronic 1, H410 | M [Acute] = 1 M [Chronic] = 1 | [1] |
| ethylbenzene | REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4 | ≤3 | Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412 | ATE [Inhalation (vapours)] = 11 mg/ l | [1] [2] |
| 2-methylpropan-1-ol | REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1 | ≤3 | Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336 | - | [1] |
| Urea, polymer with formaldehyde, isobutylated | CAS: 68002-18-6 | ≤3 | Aquatic Chronic 4, H413 | - | [1] |
| zinc oxide | REACH #: 01-2119463881-32 EC: 215-222-5 CAS: 1314-13-2 Index: 030-013-00-7 | ≤3 | Aquatic Acute 1, H400 Aquatic Chronic 1, H410 | M [Acute] = 1 M [Chronic] = 1 | [1] |
| Phosphoric acid, polymer with 4,4'-(1-methylethylidene)bis | CAS: 64346-82-3 | ≤3 | Eye Dam. 1, H318 | - | [1] |

SECTION 3: Composition/information on ingredients

| | | | | | |
|--|---|------|---|---|---------|
| [phenol] and 2,2'-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)] bis[oxirane] | | | | | |
| 2-butoxyethanol | REACH #: 01-2119475108-36 EC: 203-905-0 CAS: 111-76-2 Index: 603-014-00-0 | ≤2.8 | Acute Tox. 4, H302 Acute Tox. 3, H331 Skin Irrit. 2, H315 Eye Irrit. 2, H319 | ATE [Oral] = 1200 mg/kg ATE [Inhalation (vapours)] = 3 mg/l | [1] [2] |
| phenol | REACH #: 01-2119471329-32 EC: 203-632-7 CAS: 108-95-2 Index: 604-001-00-2 | <1 | Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 1, H330 Skin Corr. 1B, H314 Eye Dam. 1, H318 Muta. 2, H341 STOT RE 2, H373 | ATE [Oral] = 100 mg/kg ATE [Dermal] = 630 mg/kg ATE [Inhalation (vapours)] = 0.316 mg/l Skin Corr. 1B, H314: C ≥ 3% Skin Irrit. 2, H315: 1% ≤ C < 3% Eye Dam. 1, H318: C ≥ 3% Eye Irrit. 2, H319: 1% ≤ C < 3% | [1] [2] |
| 4-methylpentan-2-one | REACH #: 01-2119473980-30 EC: 203-550-1 CAS: 108-10-1 Index: 606-004-00-4 | ≤0.3 | Flam. Liq. 2, H225 Acute Tox. 4, H332 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H336 EUH066 | ATE [Inhalation (vapours)] = 11 mg/l | [1] [2] |
| Formaldehyde, solution | REACH #: 01-2119488953-20 EC: 200-001-8 CAS: 50-00-0 Index: 605-001-00-5 | <0.1 | Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 2, H330 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Carc. 1B, H350 See Section 16 for the full text of the H statements declared above. | ATE [Oral] = 100 mg/kg ATE [Dermal] = 270 mg/kg ATE [Inhalation (gases)] = 250 ppm Skin Corr. 1B, H314: C ≥ 25% Skin Irrit. 2, H315: 5% ≤ C < 25% Skin Sens. 1, H317: C ≥ 0.2% | [1] [2] |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General** : In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.
- Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
- Inhalation** : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
- Skin contact** : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
- Ingestion** : If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains formaldehyde. May produce an allergic reaction.

4.3 Indication of any immediate medical attention and special treatment needed

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.

See toxicological information (Section 11)

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media** : Recommended: alcohol-resistant foam, CO₂, powders, water spray.
- Unsuitable extinguishing media** : Do not use water jet.

5.2 Special hazards arising from the substance or mixture

SECTION 5: Firefighting measures

- Hazards from the substance or mixture** : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.
- Hazardous combustion products** : Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

5.3 Advice for firefighters

- Special protective actions for fire-fighters** : Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.
- Special protective equipment for fire-fighters** : Appropriate breathing apparatus may be required.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : Exclude sources of ignition and ventilate the area. Avoid breathing vapour or mist. Refer to protective measures listed in sections 7 and 8.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

- : Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

6.3 Methods and material for containment and cleaning up

- : Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Preferably clean with a detergent. Avoid using solvents.

6.4 Reference to other sections

- : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

- : Prevent the creation of flammable or explosive concentrations of vapours in air and avoid vapour concentrations higher than the occupational exposure limits. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear antistatic footwear and clothing and floors should be of the conducting type. Keep away from heat, sparks and flame. No sparking tools should be used. Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Avoid inhalation of dust from sanding. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Put on appropriate personal protective equipment (see Section 8). Never use pressure to empty. Container is not a pressure vessel. Always keep in containers made from the same material as the original one. Comply with the health and safety at work laws. Do not allow to enter drains or watercourses.
- Information on fire and explosion protection**

SECTION 7: Handling and storage

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations.

Notes on joint storage

Keep away from: oxidising agents, strong alkalis, strong acids.

Additional information on storage conditions

Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Care should be taken when handling emptied containers that have not been cleaned or rinsed out.

Seveso Directive - Reporting thresholds

Danger criteria

| Category | Notification and MAPP threshold | Safety report threshold |
|----------|---------------------------------|-------------------------|
| P5c | 5000 tonnes | 50000 tonnes |
| E2 | 200 tonnes | 500 tonnes |

7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific solutions : Not available.

SECTION 8: Exposure controls/personal protection

The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1 Control parameters

Occupational exposure limits

| Product/ingredient name | Exposure limit values |
|-------------------------|--|
| n-butyl acetate | Department of labour inspection (Cyprus, 7/2021) STEL 15 minutes: 150 ppm. STEL 15 minutes: 723 mg/m ³ . TWA 8 hours: 50 ppm. TWA 8 hours: 241 mg/m ³ . |
| xylene | Department of labour inspection (Cyprus, 7/2021) [Ξυλένιο, μικτά ισομερή, καθαρά] Absorbed through skin. STEL 15 minutes: 100 ppm. STEL 15 minutes: 442 mg/m ³ . TWA 8 hours: 50 ppm. TWA 8 hours: 221 mg/m ³ . |
| 1-methoxy-2-propanol | Department of labour inspection (Cyprus, 7/2021) Absorbed through skin. STEL 15 minutes: 150 ppm. STEL 15 minutes: 568 mg/m ³ . TWA 8 hours: 100 ppm. TWA 8 hours: 375 mg/m ³ . |
| ethylbenzene | Department of labour inspection (Cyprus, 7/2021) Absorbed through skin. |

SECTION 8: Exposure controls/personal protection

| | |
|------------------------|--|
| 2-butoxyethanol | STEL 15 minutes: 884 mg/m ³ . TWA 8 hours: 100 ppm. TWA 8 hours: 442 mg/m ³ . STEL 15 minutes: 200 ppm. Department of labour inspection (Cyprus, 7/2021) Absorbed through skin. |
| phenol | STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m ³ . TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m ³ . Department of labour inspection (Cyprus, 7/2021) Absorbed through skin. |
| 4-methylpentan-2-one | STEL 15 minutes: 4 ppm. STEL 15 minutes: 16 mg/m ³ . TWA 8 hours: 2 ppm. TWA 8 hours: 8 mg/m ³ . Department of labour inspection (Cyprus, 7/2021) |
| Formaldehyde, solution | STEL 15 minutes: 50 ppm. STEL 15 minutes: 208 mg/m ³ . TWA 8 hours: 20 ppm. TWA 8 hours: 83 mg/m ³ . EU OEL (Europe, 3/2024) Skin sensitiser. STEL 15 minutes: 0.6 ppm. STEL 15 minutes: 0.74 mg/m ³ . TWA 8 hours: 0.3 ppm. TWA 8 hours: 0.37 mg/m ³ . |

Biological exposure indices

No exposure indices known.

Recommended monitoring procedures

: Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name

n-butyl acetate

Result

DNEL - General population - Consumers - Long term - Inhalation

35.7 mg/m³
Effects: Local

DNEL - General population - Consumers - Short term - Inhalation

300 mg/m³
Effects: Local

DNEL - General population - Short term - Dermal

6 mg/kg bw/day
Effects: Systemic

DNEL - General population - Consumers - Long term - Oral

2 mg/kg bw/day
Effects: Systemic

DNEL - General population - Consumers - Short term -

SECTION 8: Exposure controls/personal protection

Oral

2 mg/kg bw/day

Effects: Systemic

DNEL - Workers - Long term - Inhalation

300 mg/m³

Effects: Systemic

DNEL - Workers - Short term - Inhalation

600 mg/m³

Effects: Systemic

DNEL - Workers - Long term - Inhalation

300 mg/m³

Effects: Local

DNEL - Workers - Short term - Inhalation

600 mg/m³

Effects: Local

DNEL - Workers - Long term - Dermal

11 mg/kg bw/day

Effects: Systemic

DNEL - Workers - Short term - Dermal

11 mg/kg bw/day

Effects: Systemic

DNEL - General population - Long term - Oral

2 mg/kg bw/day

Effects: Systemic

DNEL - General population - Short term - Oral

2 mg/kg bw/day

Effects: Systemic

DNEL - General population - Long term - Dermal

3.4 mg/kg bw/day

Effects: Systemic

DNEL - General population - Short term - Dermal

6 mg/kg bw/day

Effects: Systemic

DNEL - Workers - Long term - Dermal

7 mg/kg bw/day

Effects: Systemic

DNEL - Workers - Short term - Dermal

11 mg/kg bw/day

Effects: Systemic

DNEL - General population - Long term - Inhalation

12 mg/m³

Effects: Systemic

DNEL - General population - Long term - Inhalation

35.7 mg/m³

Effects: Local

DNEL - Workers - Long term - Inhalation

48 mg/m³

SECTION 8: Exposure controls/personal protection

xylene

Effects: Systemic

DNEL - General population - Short term - Inhalation

300 mg/m³

Effects: Local

DNEL - General population - Short term - Inhalation

300 mg/m³

Effects: Systemic

DNEL - Workers - Long term - Inhalation

300 mg/m³

Effects: Local

DNEL - Workers - Short term - Inhalation

600 mg/m³

Effects: Local

DNEL - Workers - Short term - Inhalation

600 mg/m³

Effects: Systemic

DNEL - General population - Consumers - Short term - Inhalation

174 mg/m³

Effects: Local

DNEL - General population - Consumers - Short term - Inhalation

174 mg/m³

Effects: Systemic

DNEL - General population - Long term - Oral

5 mg/kg bw/day

Effects: Systemic

DNEL - General population - Long term - Inhalation

65.3 mg/m³

Effects: Local

DNEL - General population - Long term - Inhalation

65.3 mg/m³

Effects: Systemic

DNEL - General population - Long term - Dermal

125 mg/kg bw/day

Effects: Systemic

DNEL - Workers - Long term - Dermal

212 mg/kg bw/day

Effects: Systemic

DNEL - Workers - Long term - Inhalation

221 mg/m³

Effects: Local

DNEL - Workers - Long term - Inhalation

221 mg/m³

Effects: Systemic

DNEL - General population - Short term - Inhalation

260 mg/m³

SECTION 8: Exposure controls/personal protection

Effects: Local

DNEL - General population - Short term - Inhalation

260 mg/m³

Effects: Systemic

DNEL - Workers - Short term - Inhalation

442 mg/m³

Effects: Local

DNEL - Workers - Short term - Inhalation

442 mg/m³

Effects: Systemic

butan-1-ol

DNEL - General population - Consumers - Long term - Dermal

3.125 mg/kg bw/day

Effects: Systemic

DNEL - General population - Long term - Oral

1.5625 mg/kg bw/day

Effects: Systemic

DNEL - General population - Long term - Dermal

3.125 mg/kg bw/day

Effects: Systemic

DNEL - General population - Long term - Inhalation

55.357 mg/m³

Effects: Systemic

DNEL - General population - Long term - Inhalation

155 mg/m³

Effects: Local

DNEL - Workers - Long term - Inhalation

310 mg/m³

Effects: Local

1-methoxy-2-propanol

DNEL - Workers - Long term - Dermal

51 mg/kg bw/day

Effects: Systemic

DNEL - General population - Long term - Oral

33 mg/kg bw/day

Effects: Systemic

DNEL - General population - Long term - Inhalation

43.9 mg/m³

Effects: Systemic

DNEL - General population - Long term - Dermal

78 mg/kg bw/day

Effects: Systemic

DNEL - Workers - Long term - Dermal

183 mg/kg bw/day

Effects: Systemic

DNEL - Workers - Long term - Inhalation

369 mg/m³

Effects: Systemic

SECTION 8: Exposure controls/personal protection

| | |
|---------------------|--|
| ethylbenzene | <p>DNEL - Workers - Short term - Inhalation 553.5 mg/m³ <u>Effects:</u> Local</p> <p>DNEL - Workers - Short term - Inhalation 553.5 mg/m³ <u>Effects:</u> Systemic</p> <p>DMEL - Workers - Long term - Inhalation 442 mg/m³ <u>Effects:</u> Local</p> <p>DMEL - Workers - Short term - Inhalation 884 mg/m³ <u>Effects:</u> Systemic</p> <p>DNEL - General population - Long term - Oral 1.6 mg/kg bw/day <u>Effects:</u> Systemic</p> <p>DNEL - General population - Long term - Inhalation 15 mg/m³ <u>Effects:</u> Systemic</p> <p>DNEL - Workers - Long term - Inhalation 77 mg/m³ <u>Effects:</u> Systemic</p> <p>DNEL - Workers - Long term - Dermal 180 mg/kg bw/day <u>Effects:</u> Systemic</p> <p>DNEL - Workers - Short term - Inhalation 293 mg/m³ <u>Effects:</u> Local</p> |
| 2-methylpropan-1-ol | <p>DNEL - General population - Long term - Oral 25 mg/kg bw/day <u>Effects:</u> Systemic</p> <p>DNEL - Workers - Long term - Inhalation 310 mg/m³ <u>Effects:</u> Systemic</p> <p>DNEL - General population - Long term - Inhalation 55 mg/m³ <u>Effects:</u> Local</p> <p>DNEL - Workers - Long term - Inhalation 310 mg/m³ <u>Effects:</u> Local</p> |
| zinc oxide | <p>DNEL - General population - Long term - Dermal 83 mg/kg bw/day <u>Effects:</u> Systemic</p> <p>DNEL - General population - Long term - Inhalation 2.5 mg/m³ <u>Effects:</u> Systemic</p> <p>DNEL - Workers - Long term - Dermal 83 mg/kg bw/day</p> |

SECTION 8: Exposure controls/personal protection

| | |
|----------------------|---|
| | <p><u>Effects</u>: Systemic</p> <p>DNEL - Workers - Long term - Inhalation 5 mg/m³ <u>Effects</u>: Systemic</p> <p>DNEL - General population - Long term - Oral 6.3 mg/kg bw/day <u>Effects</u>: Systemic</p> <p>DNEL - General population - Short term - Oral 26.7 mg/kg bw/day <u>Effects</u>: Systemic</p> <p>DNEL - General population - Long term - Inhalation 59 mg/m³ <u>Effects</u>: Systemic</p> <p>DNEL - Workers - Long term - Inhalation 98 mg/m³ <u>Effects</u>: Systemic</p> <p>DNEL - General population - Short term - Inhalation 147 mg/m³ <u>Effects</u>: Local</p> <p>DNEL - Workers - Short term - Inhalation 246 mg/m³ <u>Effects</u>: Local</p> <p>DNEL - General population - Short term - Inhalation 426 mg/m³ <u>Effects</u>: Systemic</p> <p>DNEL - Workers - Short term - Inhalation 1091 mg/m³ <u>Effects</u>: Systemic</p> |
| 2-butoxyethanol | |
| phenol | <p>DNEL - General population - Long term - Inhalation 0.452 mg/m³ <u>Effects</u>: Systemic</p> <p>DNEL - General population - Long term - Oral 0.5 mg/kg bw/day <u>Effects</u>: Systemic</p> <p>DNEL - General population - Long term - Dermal 0.5 mg/kg bw/day <u>Effects</u>: Systemic</p> <p>DNEL - Workers - Long term - Dermal 1.23 mg/kg bw/day <u>Effects</u>: Systemic</p> <p>DNEL - Workers - Long term - Inhalation 8 mg/m³ <u>Effects</u>: Systemic</p> <p>DNEL - Workers - Short term - Inhalation 16 mg/m³ <u>Effects</u>: Local</p> |
| 4-methylpentan-2-one | <p>DNEL - General population - Long term - Dermal</p> |

SECTION 8: Exposure controls/personal protection

4.2 mg/kg bw/day

Effects: Systemic

DNEL - Workers - Long term - Dermal

11.8 mg/kg bw/day

Effects: Systemic

DNEL - General population - Long term - Inhalation

14.7 mg/m³

Effects: Local

DNEL - General population - Long term - Inhalation

14.7 mg/m³

Effects: Systemic

DNEL - Workers - Long term - Inhalation

83 mg/m³

Effects: Local

DNEL - Workers - Long term - Inhalation

83 mg/m³

Effects: Systemic

DNEL - General population - Short term - Inhalation

155.2 mg/m³

Effects: Local

DNEL - General population - Short term - Inhalation

155.2 mg/m³

Effects: Systemic

DNEL - Workers - Short term - Inhalation

208 mg/m³

Effects: Local

DNEL - Workers - Short term - Inhalation

208 mg/m³

Effects: Systemic

DNEL - General population - Long term - Oral

4.2 mg/kg bw/day

Effects: Systemic

Formaldehyde, solution

DNEL - Workers - Long term - Dermal

0.037 mg/cm²

Effects: Local

DNEL - General population - Consumers - Long term - Dermal

0.012 mg/cm²

Effects: Local

DNEL - General population - Long term - Dermal

12 µg/cm²

Effects: Local

DNEL - Workers - Long term - Dermal

37 µg/cm²

Effects: Local

DNEL - General population - Long term - Inhalation

0.1 mg/m³

SECTION 8: Exposure controls/personal protection

Effects: Local

DNEL - Workers - Long term - Inhalation

0.375 mg/m³

Effects: Local

DNEL - Workers - Short term - Inhalation

0.75 mg/m³

Effects: Local

DNEL - General population - Long term - Inhalation

3.2 mg/m³

Effects: Systemic

DNEL - General population - Long term - Oral

4.1 mg/kg bw/day

Effects: Systemic

DNEL - Workers - Long term - Inhalation

9 mg/m³

Effects: Systemic

DNEL - General population - Long term - Dermal

102 mg/kg bw/day

Effects: Systemic

DNEL - Workers - Long term - Dermal

240 mg/kg bw/day

Effects: Systemic

PNECs

Product/ingredient name

n-butyl acetate

Result

Fresh water

0.18 mg/l

Marine

0.018 mg/l

Sewage Treatment Plant

35.6 mg/l

Fresh water sediment

0.981 mg/kg dwt

Marine water sediment

0.0981 mg/kg dwt

Soil

0.0903 mg/kg dwt

xylene

Fresh water

0.327 mg/l

Marine water

0.327 mg/l

Sewage Treatment Plant

6.58 mg/l

Fresh water sediment

12.46 mg/kg dwt

SECTION 8: Exposure controls/personal protection

| | |
|-----------------------------|---|
| butan-1-ol | <p>Marine water sediment 12.46 mg/kg dwt</p> <p>Soil 2.31 mg/kg dwt</p> <p>Fresh water - Assessment Factors 0.082 mg/l</p> <p>Marine water - Assessment Factors 0.0082 mg/l</p> <p>Sewage Treatment Plant - Assessment Factors 2476 mg/l</p> <p>Fresh water sediment - Equilibrium Partitioning 0.324 mg/kg dwt</p> <p>Marine water sediment - Equilibrium Partitioning 0.0324 mg/kg dwt</p> <p>Soil - Equilibrium Partitioning 0.017 mg/kg dwt</p> |
| 1-methoxy-2-propanol | <p>Fresh water 10 mg/l</p> <p>Marine water 1 mg/l</p> <p>Sewage Treatment Plant 100 mg/l</p> <p>Fresh water sediment 52.3 mg/kg dwt</p> <p>Marine water sediment 5.2 mg/kg dwt</p> <p>Soil 4.59 mg/kg dwt</p> |
| trizinc bis(orthophosphate) | <p>Fresh water 20.6 µg/l</p> <p>Marine water 6.1 µg/l</p> <p>Sewage Treatment Plant 100 µg/l</p> <p>Fresh water sediment 117.8 mg/kg dwt</p> <p>Marine water sediment 56.5 mg/kg dwt</p> <p>Soil 35.6 mg/kg dwt</p> |
| ethylbenzene | <p>Fresh water 0.1 mg/l</p> |

SECTION 8: Exposure controls/personal protection

| | |
|---------------------|---|
| | <p>Marine water 0.01 mg/l</p> <p>Sewage Treatment Plant 9.6 mg/l</p> <p>Fresh water sediment 13.7 mg/kg dwt</p> <p>Marine water sediment 1.37 mg/kg dwt</p> <p>Soil 2.68 mg/kg dwt</p> |
| 2-methylpropan-1-ol | <p>Fresh water - Assessment Factors 0.4 mg/l</p> <p>Marine - Assessment Factors 0.04 mg/l</p> <p>Sewage Treatment Plant - Assessment Factors 10 mg/l</p> <p>Fresh water sediment - Equilibrium Partitioning 1.56 mg/kg dwt</p> <p>Marine water sediment - Equilibrium Partitioning 0.156 mg/kg dwt</p> <p>Soil - Equilibrium Partitioning 0.076 mg/kg dwt</p> |
| zinc oxide | <p>Fresh water 20.6 µg/l</p> <p>Marine water 6.1 µg/l</p> <p>Fresh water sediment 117 mg/kg dwt</p> <p>Sewage Treatment Plant 52 µg/l</p> <p>Marine water sediment 56.5 mg/kg dwt</p> <p>Soil 35.6 mg/kg dwt</p> |
| 2-butoxyethanol | <p>Fresh water 8.8 mg/l</p> <p>Marine water 0.88 mg/l</p> <p>Sewage Treatment Plant 463 mg/l</p> <p>Fresh water sediment 34.6 mg/kg dwt</p> |

SECTION 8: Exposure controls/personal protection

| | |
|------------------------|--|
| phenol | <p>Marine water sediment 3.46 mg/kg dwt</p> <p>Soil 2.33 mg/kg dwt</p> <p>Secondary Poisoning 20 mg/kg</p> <p>Fresh water 0.077 mg/l</p> <p>Marine water 0.0077 mg/l</p> <p>Sewage Treatment Plant 2.1 mg/l</p> <p>Fresh water sediment 0.0915 mg/kg dwt</p> <p>Marine water sediment 0.00915 mg/kg dwt</p> <p>Soil 0.136 mg/kg dwt</p> |
| 4-methylpentan-2-one | <p>Fresh water 0.6 mg/l</p> <p>Marine 0.06 mg/l</p> <p>Sewage Treatment Plant 27.5 mg/l</p> <p>Fresh water sediment 8.27 mg/kg dwt</p> <p>Marine water sediment 0.83 mg/kg dwt</p> <p>Soil 1.3 mg/kg dwt</p> |
| Formaldehyde, solution | <p>Fresh water - Sensitivity Distribution 0.44 mg/l</p> <p>Marine water - Assessment Factors 0.44 mg/l</p> <p>Sewage Treatment Plant - Assessment Factors 0.19 mg/l</p> <p>Fresh water sediment - Equilibrium Partitioning 2.3 mg/kg dwt</p> <p>Marine water sediment - Equilibrium Partitioning 2.3 mg/kg dwt</p> <p>Soil - Equilibrium Partitioning 0.2 mg/kg dwt</p> |

SECTION 8: Exposure controls/personal protection

8.2 Exposure controls

Appropriate engineering controls : Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapours below the OEL, suitable respiratory protection must be worn.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Use safety eyewear designed to protect against splash of liquids.

Skin protection

Hand protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance. Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

Gloves : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. > 8 hours (breakthrough time): Recommended EN 374 polyvinyl alcohol (PVA) Viton® ≥ 0.7 mm
< 1 hour (breakthrough time): Conditionally suitable materials for protective gloves; EN 374: Nitrile rubber - NBR (≥ 0.35 mm). Only suitable as splash protection. Only suitable for brief exposure. In the event of contamination, change protective gloves immediately.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods. Recommended: Cotton or cotton/synthetic overalls or coveralls are normally suitable.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended: EN 405:2001 + A1:2009 organic vapour (Type A) and particulate filter FFA2P3 R D

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

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

| | |
|---|--|
| Physical state | : Liquid. |
| Colour | : Grey. |
| Odour | : Fruity. |
| Odour threshold | : Not available. |
| Melting point/freezing point | : Not applicable. |
| Boiling point or initial boiling point and boiling range | : >100°C (>212°F) |
| Flammability | : Not available. |
| Lower and upper explosion limit | : Lower: 0.8% Upper: 13.7% |
| Flash point | : Closed cup: 24.5°C (76.1°F) |
| Auto-ignition temperature | : 270°C (518°F) |
| Decomposition temperature | : Not applicable. |
| pH | : Not applicable. |
| Viscosity | : Dynamic (room temperature): Not available. Kinematic (room temperature): Not available. Kinematic (40°C): 6 mm ² /s |

Solubility

:

| Media | Result |
|--------------|---------------|
| cold water | Not soluble |
| hot water | Not soluble |

Solubility in water : Not applicable.

Partition coefficient n-octanol/water (log Pow) : Not applicable.

Vapour pressure : 1.3 kPa (10 mm Hg)

Relative density : 1.04

Density : 1.04 g/cm³

Relative vapour density : 4 [Air = 1]

Particle characteristics

Median particle size : Not applicable.

9.2 Other information**9.2.1 Information with regard to physical hazard classes**

Explosive properties : Not available.

Oxidising properties : Not available.

9.2.2 Other safety characteristics

Miscible with water : No.

Evaporation rate : 1 (butyl acetate = 1)

SECTION 10: Stability and reactivity

- 10.1 Reactivity** : No specific test data related to reactivity available for this product or its ingredients.
- 10.2 Chemical stability** : Stable under recommended storage and handling conditions (see Section 7).
- 10.3 Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- 10.4 Conditions to avoid** : When exposed to high temperatures may produce hazardous decomposition products.
- 10.5 Incompatible materials** : Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.
- 10.6 Hazardous decomposition products** : Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains formaldehyde. May produce an allergic reaction.

Acute toxicity**Product/ingredient name**

n-butyl acetate

Result**Rabbit - Dermal - LD50**

>14112 mg/kg

OECD [Acute Dermal Toxicity]

Rat - Oral - LD50

10760 mg/kg

OECD [Acute Oral toxicity - Acute Toxic Class Method]

Rat - Inhalation - LC50 Vapour

>21.1 mg/l [4 hours]

OECD [Acute Inhalation Toxicity]

Rat - Inhalation - LC50 Gas.

390 ppm [4 hours]

Toxic effects: Behavioral - Changes in motor activity (specific assay) Lung, Thorax, or Respiration - Acute pulmonary edema

Blood - Hemorrhage

xylene

Rabbit - Dermal - LD50

12126 mg/kg

SECTION 11: Toxicological information

| | |
|---|--|
| | <p>Rat - Oral - LD50 4300 mg/kg</p> <p>Rat - Male - Inhalation - LC50 Vapour 29000 mg/l [4 hours]</p> <p>Rat - Inhalation - LC50 Gas. 5000 ppm [4 hours]</p> |
| butan-1-ol | <p>Rat - Oral - LD50 790 mg/kg <u>Toxic effects:</u> Liver - Fatty liver degeneration Kidney, Ureter, and Bladder - Other changes Blood - Other changes</p> <p>Rabbit - Dermal - LD50 3400 mg/kg</p> <p>Rat - Inhalation - LC50 Vapour 24000 mg/m³ [4 hours]</p> |
| 1-methoxy-2-propanol | <p>Rabbit - Dermal - LD50 2000 mg/kg</p> <p>Rat - Oral - LD50 4016 mg/kg</p> |
| trizinc bis(orthophosphate) | <p>Rat - Oral - LD50 >5000 mg/kg</p> <p>Rat - Inhalation - LC50 Dusts and mists >5.7 mg/l [4 hours]</p> |
| ethylbenzene | <p>Rabbit - Dermal - LD50 12126 mg/kg</p> <p>Rat - Oral - LD50 3500 mg/kg <u>Toxic effects:</u> Liver - Other changes Kidney, Ureter, and Bladder - Other changes</p> <p>Rat - Inhalation - LC50 Vapour 6350 ppm [4 hours]</p> |
| 2-methylpropan-1-ol | <p>Rabbit - Dermal - LD50 3392 mg/kg OECD [Acute Dermal Toxicity]</p> <p>Rat - Oral - LD50 2460 mg/kg</p> <p>Rat - Inhalation - LC50 Vapour 19200 mg/m³ [4 hours]</p> |
| Urea, polymer with formaldehyde, isobutylated | <p>Rat - Oral - LD50 >5 g/kg <u>Toxic effects:</u> Olfaction - Other changes Behavioral - Somnolence (general depressed activity) Behavioral - Food intake (animal)</p> <p>Rabbit - Dermal - LD50 >5 g/kg <u>Toxic effects:</u> Skin After systemic exposure - Dermatitis, other</p> |

SECTION 11: Toxicological information

| | |
|------------------------|---|
| zinc oxide | <p>Rat - Dermal - LD50 >2000 mg/kg</p> <p>Rat - Oral - LD50 >5000 mg/kg</p> <p>Rat - Inhalation - LC50 Dusts and mists >5.7 mg/l [4 hours]</p> |
| 2-butoxyethanol | <p>Rat - Dermal - LD50 >2000 mg/kg</p> <p>Rabbit - Dermal - LD50 220 mg/kg</p> <p>Rat - Oral - LD50 250 mg/kg</p> <p>Rat - Inhalation - LC50 Gas. 450 ppm [4 hours] <u>Toxic effects:</u> Behavioral - Ataxia Gross Metabolite Changes - Weight loss or decreased weight gain</p> |
| phenol | <p>Rat - Dermal - LD50 669 mg/kg <u>Toxic effects:</u> Behavioral - Tremor Kidney, Ureter, and Bladder - Hematuria Skin After topical exposure - Cutaneous sensitization (experimental)</p> <p>Rabbit - Dermal - LD50 630 mg/kg</p> <p>Rat - Oral - LD50 317 mg/kg <u>Toxic effects:</u> Behavioral - Convulsions or effect on seizure threshold</p> <p>Rat - Inhalation - LC50 Vapour 316 mg/m³ [4 hours]</p> |
| 4-methylpentan-2-one | <p>Rabbit - Dermal - LD50 >2000 mg/kg</p> <p>Rat - Oral - LD50 2080 mg/kg</p> <p>Rat - Inhalation - LC50 Vapour 16.4 mg/l [4 hours]</p> |
| Formaldehyde, solution | <p>Rat - Oral - LD50 100 mg/kg <u>Toxic effects:</u> Eye - Retinal changes (pigmentary depositions, retinitis, other) Eye - Hemorrhage Eye - Other</p> <p>Rabbit - Dermal - LD50 270 mg/kg</p> <p>Rat - Inhalation - LC50 Gas. 250 ppm [4 hours]</p> |

Conclusion/Summary [Product] : Not available.

SECTION 11: Toxicological information**Acute toxicity estimates**

| Product/ingredient name | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapours) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|-------------------------|--------------|----------------|--------------------------|-----------------------------|-------------------------------------|
| 1-185 1K Primer | 5919.3 | 8948.7 | 43108.9 | 55.7 | N/A |
| n-butyl acetate | 10760 | N/A | N/A | N/A | N/A |
| xylene | 4300 | 1100 | 5000 | 29000 | N/A |
| butan-1-ol | 790 | 3400 | N/A | 24 | N/A |
| 1-methoxy-2-propanol | 4016 | N/A | N/A | N/A | N/A |
| ethylbenzene | 3500 | 12126 | N/A | 11 | N/A |
| 2-methylpropan-1-ol | 2460 | 3392 | N/A | N/A | N/A |
| 2-butoxyethanol | 1200 | N/A | N/A | 3 | N/A |
| phenol | 100 | 630 | N/A | 0.316 | N/A |
| 4-methylpentan-2-one | 2080 | N/A | N/A | 11 | N/A |
| Formaldehyde, solution | 100 | 270 | 250 | N/A | N/A |

Skin corrosion/irritation**Product/ingredient name**

n-butyl acetate

Result**Rabbit - Skin - Moderate irritant**Duration of treatment/exposure: 24 hoursAmount/concentration applied: 500 mg

xylene

Rat - Skin - Mild irritantDuration of treatment/exposure: 8 hoursAmount/concentration applied: 60 uL**Rabbit - Skin - Moderate irritant**Duration of treatment/exposure: 24 hoursAmount/concentration applied: 500 mg

butan-1-ol

Rabbit - Skin - Moderate irritantAmount/concentration applied: 100 %**Rabbit - Skin - Moderate irritant**Duration of treatment/exposure: 24 hoursAmount/concentration applied: 20 mg

1-methoxy-2-propanol

Rabbit - Skin - Mild irritantAmount/concentration applied: 500 mg

ethylbenzene

Rabbit - Skin - Mild irritantDuration of treatment/exposure: 24 hoursAmount/concentration applied: 15 mg

zinc oxide

Rabbit - Skin - Mild irritantDuration of treatment/exposure: 24 hoursAmount/concentration applied: 500 milligrams

2-butoxyethanol

Rabbit - Skin - Mild irritantAmount/concentration applied: 500 mg

phenol

Pig - Skin - Severe irritantDuration of treatment/exposure: 0.5 minutesAmount/concentration applied: 400 uL**Rabbit - Skin - Mild irritant**Amount/concentration applied: 100 mg**Rabbit - Skin - Severe irritant**

SECTION 11: Toxicological information

| | |
|------------------------|--|
| 4-methylpentan-2-one | <p><u>Amount/concentration applied:</u> 535 mg</p> <p>Rabbit - Skin - Mild irritant <u>Duration of treatment/exposure:</u> 24 hours <u>Amount/concentration applied:</u> 500 mg</p> |
| Formaldehyde, solution | <p>Human - Skin - Mild irritant <u>Duration of treatment/exposure:</u> 72 hours <u>Amount/concentration applied:</u> 150 ug l</p> <p>Human - Skin - Severe irritant <u>Amount/concentration applied:</u> 0.01 %</p> <p>Rabbit - Skin - Mild irritant <u>Amount/concentration applied:</u> 540 mg</p> <p>Rabbit - Skin - Moderate irritant <u>Duration of treatment/exposure:</u> 24 hours <u>Amount/concentration applied:</u> 50 mg</p> <p>Rabbit - Skin - Severe irritant <u>Duration of treatment/exposure:</u> 24 hours <u>Amount/concentration applied:</u> 2 mg</p> <p>Rabbit - Skin - Severe irritant <u>Amount/concentration applied:</u> 0.8 %</p> <p>Mouse - Skin - Moderate irritant <u>Amount/concentration applied:</u> 7 %</p> <p>Rat - Skin - Moderate irritant <u>Amount/concentration applied:</u> 7 %</p> |

Conclusion/Summary [Product] : Not available.

Serious eye damage/eye irritation

Product/ingredient name

n-butyl acetate

Result

Rabbit - Eyes - Moderate irritant
Amount/concentration applied: 100 mg

xylene

Rabbit - Eyes - Mild irritant
Amount/concentration applied: 87 mg

Rabbit - Eyes - Severe irritant
Duration of treatment/exposure: 24 hours
Amount/concentration applied: 5 mg

butan-1-ol

Rabbit - Eyes - Severe irritant
Duration of treatment/exposure: 24 hours
Amount/concentration applied: 2 mg

Rabbit - Eyes - Severe irritant
Amount/concentration applied: 0.005 MI

Rabbit - Eyes - Severe irritant
Amount/concentration applied: 1.62 mg

1-methoxy-2-propanol

Rabbit - Eyes - Mild irritant
Duration of treatment/exposure: 24 hours
Amount/concentration applied: 500 mg

SECTION 11: Toxicological information

| | |
|---|--|
| ethylbenzene | Rabbit - Eyes - Severe irritant <u>Amount/concentration applied:</u> 500 mg |
| Urea, polymer with formaldehyde, isobutylated | Rabbit - Eyes - Severe irritant <u>Duration of treatment/exposure:</u> 24 hours <u>Amount/concentration applied:</u> 100 uL |
| zinc oxide | Rabbit - Eyes - Mild irritant <u>Duration of treatment/exposure:</u> 24 hours <u>Amount/concentration applied:</u> 500 milligrams |
| 2-butoxyethanol | Rabbit - Eyes - Moderate irritant <u>Duration of treatment/exposure:</u> 24 hours <u>Amount/concentration applied:</u> 100 mg Rabbit - Eyes - Severe irritant <u>Amount/concentration applied:</u> 100 mg |
| phenol | Rabbit - Eyes - Mild irritant <u>Duration of treatment/exposure:</u> 0.5 minutes <u>Amount/concentration applied:</u> 5 mg Rabbit - Eyes - Severe irritant <u>Amount/concentration applied:</u> 5 mg |
| 4-methylpentan-2-one | Rabbit - Eyes - Moderate irritant <u>Duration of treatment/exposure:</u> 24 hours <u>Amount/concentration applied:</u> 100 uL Rabbit - Eyes - Severe irritant <u>Amount/concentration applied:</u> 40 mg |
| Formaldehyde, solution | Human - Eyes - Mild irritant <u>Duration of treatment/exposure:</u> 6 minutes <u>Amount/concentration applied:</u> 1 ppm Rabbit - Eyes - Severe irritant <u>Duration of treatment/exposure:</u> 24 hours <u>Amount/concentration applied:</u> 750 ug Rabbit - Eyes - Severe irritant <u>Amount/concentration applied:</u> 750 ug Rabbit - Eyes - Severe irritant <u>Amount/concentration applied:</u> 37 % Rabbit - Eyes - Severe irritant <u>Amount/concentration applied:</u> 10 mg Mouse - Eyes - Moderate irritant <u>Amount/concentration applied:</u> 3 % |

Conclusion/Summary [Product] : Not available.

Respiratory corrosion/irritation

Not available.

Conclusion/Summary [Product] : Not available.

Respiratory or skin sensitization

SECTION 11: Toxicological information

Not available.

Skin

Conclusion/Summary [Product] : Not available.

Respiratory

Conclusion/Summary [Product] : Not available.

Germ cell mutagenicity

Not available.

Conclusion/Summary [Product] : Not available.

Carcinogenicity

Not available.

Conclusion/Summary [Product] : Not available.

Reproductive toxicity

Not available.

Conclusion/Summary [Product] : Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name

n-butyl acetate
xylene
butan-1-ol

1-methoxy-2-propanol
2-methylpropan-1-ol

4-methylpentan-2-one

Result

STOT SE 3, H336 (Narcotic effects)
STOT SE 3, H335 (Respiratory tract irritation)
STOT SE 3, H335 (Respiratory tract irritation)
STOT SE 3, H336 (Narcotic effects)
STOT SE 3, H336 (Narcotic effects)
STOT SE 3, H335 (Respiratory tract irritation)
STOT SE 3, H336 (Narcotic effects)
STOT SE 3, H336 (Narcotic effects)

Specific target organ toxicity (repeated exposure)

Product/ingredient name

xylene
ethylbenzene
phenol

Result

STOT RE 2, H373
STOT RE 2, H373 (hearing organs)
STOT RE 2, H373

Aspiration hazard

Product/ingredient name

xylene
ethylbenzene

Result

ASPIRATION HAZARD - Category 1
ASPIRATION HAZARD - Category 1

Information on likely routes of exposure

Not available.

Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.

Skin contact : Causes skin irritation.

SECTION 11: Toxicological information

Ingestion : Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:
 pain
 watering
 redness

Inhalation : Adverse symptoms may include the following:
 respiratory tract irritation
 coughing
 nausea or vomiting
 headache
 drowsiness/fatigue
 dizziness/vertigo
 unconsciousness

Skin contact : Adverse symptoms may include the following:
 pain or irritation
 redness
 blistering may occur

Ingestion : Adverse symptoms may include the following:
 stomach pains
 nausea or vomiting

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

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary [Product] : Not available.

General : May cause damage to organs through prolonged or repeated exposure.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : No known significant effects or critical hazards.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

Conclusion/Summary [Product] : The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

11.2.2 Other information

Not available.

SECTION 12: Ecological information**12.1 Toxicity**

There are no data available on the mixture itself.
Do not allow to enter drains or watercourses.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.

Product/ingredient name

n-butyl acetate

Result**Acute - NOEC**

Algae
200 mg/l [72 hours]

Acute - EC50

OECD 201 [Alga, Growth Inhibition Test]
Algae - *Selenastrum capricornutum*
397 mg/l [72 hours]

Acute - LC50 - Fresh water

Fish - Fathead minnow - *Pimephales promelas*
Age: 31 to 32 days; Size: 21.6 mm; Weight: 0.175 g
18 mg/l [96 hours]
Effect: Mortality

Acute - LC50 - Marine water

Crustaceans - Brine shrimp - *Artemia salina*
32 mg/l [48 hours]
Effect: Mortality

xylene

Acute - EC50

Algae
1 to 10 mg/l [72 hours]

Acute - LC50 - Marine water

Crustaceans - Daggerblade grass shrimp - *Palaemon pugio*
8500 µg/l [48 hours]
Effect: Mortality

Acute - LC50 - Fresh water

Fish - Fathead minnow - *Pimephales promelas*
Age: 31 days; Size: 18.4 mm; Weight: 0.077 g
13.4 mg/l [96 hours]
Effect: Mortality

butan-1-ol

Acute - LC50

OECD [Fish, Acute Toxicity Test]
Fish - *Pimephales promelas*
1376 mg/l [96 hours]

Acute - EC50

OECD [Daphnia sp. Acute Immobilization Test and
Reproduction Test]
Daphnia - *Daphnia magna*
1328 mg/l [48 hours]

Acute - EC50

OECD [Alga, Growth Inhibition Test]
Algae - *Desmodesmus subspicatus*
225 mg/l [96 hours]

Chronic - NOEC

OECD [Daphnia Magna Reproduction Test]
Daphnia - *Daphnia magna*

SECTION 12: Ecological information

| | |
|-----------------------------|--|
| | 4.1 mg/l [21 days] |
| 1-methoxy-2-propanol | <p>Acute - LC50 Fish - <i>Leuciscus idus</i> 6812 mg/l [96 hours]</p> <p>Acute - EC50 Daphnia - <i>Daphnia magna</i> >21000 mg/l [48 hours]</p> <p>Acute - EC50 Aquatic plants - <i>Selenastrum capricornutum</i> >1000 mg/l [96 hours]</p> |
| trizinc bis(orthophosphate) | <p>Acute - EC50 Mortality Daphnia - <i>Daphnia magna</i> 63.1 mg/l [48 hours]</p> <p>Acute - LC50 - Fresh water Fish - Rainbow trout,donaldson trout - <i>Oncorhynchus mykiss</i> <u>Age</u>: 180 days; <u>Weight</u>: 1.5 g 90 µg/l [96 hours] <u>Effect</u>: Mortality</p> |
| ethylbenzene | <p>Acute - LC50 - Fresh water Fish - Rainbow trout,donaldson trout - <i>Oncorhynchus mykiss</i> 4200 µg/l [96 hours] <u>Effect</u>: Mortality</p> <p>Acute - EC50 - Fresh water Daphnia - Water flea - <i>Daphnia magna</i> - Neonate <u>Age</u>: ≤24 hours 2.93 mg/l [48 hours] <u>Effect</u>: Intoxication</p> <p>Acute - EC50 - Fresh water Algae - Green algae - <i>Raphidocelis subcapitata</i> 3600 µg/l [96 hours] <u>Effect</u>: Population</p> |
| 2-methylpropan-1-ol | <p>Acute - EC50 Algae - <i>Pseudokirchneriella subcapitata</i> 1799 mg/l [72 hours]</p> <p>Chronic - NOEC OECD [Alga, Growth Inhibition Test] Algae - <i>Pseudokirchneriella subcapitata</i> 117 mg/l [72 hours]</p> <p>Acute - LC50 - Fresh water Fish - Rainbow trout,donaldson trout - <i>Oncorhynchus mykiss</i> <u>Weight</u>: 1.67 g 1330 mg/l [96 hours] <u>Effect</u>: Mortality</p> <p>Acute - LC50 - Marine water Crustaceans - Brine shrimp - <i>Artemia salina</i> 600 mg/l [48 hours] <u>Effect</u>: Mortality</p> <p>Chronic - NOEC - Fresh water</p> |

SECTION 12: Ecological information

| | |
|-----------------|--|
| zinc oxide | <p>Daphnia - Water flea - <i>Daphnia magna</i> <u>Age:</u> ≤24 hours 4 mg/l [21 days] <u>Effect:</u> Reproduction</p> <p>Acute - EC50 Algae - <i>Selenastrum capricornutum</i> 0.17 mg/l [72 hours]</p> <p>Acute - LC50 Fish - <i>Lepomis macrochirus</i> 320 ppm [96 hours]</p> <p>Chronic - NOEC Algae - <i>Pseudokirchneriella subcapitata</i> 0.017 mg/l [72 hours]</p> |
| 2-butoxyethanol | <p>Acute - EC50 Algae - <i>Pseudokirchneriella subcapitata</i> 911 mg/l [72 hours]</p> <p>Chronic - NOEC Daphnia - <i>Daphnia magna</i> 100 mg/l [21 days]</p> <p>Chronic - NOEC Fish - <i>Brachydanio rerio</i> >100 mg/l [21 days]</p> <p>Acute - LC50 - Marine water Crustaceans - Common shrimp, sand shrimp - <i>Crangon crangon</i> 800 mg/l [48 hours] <u>Effect:</u> Mortality</p> <p>Acute - LC50 - Marine water Fish - Inland silverside - <i>Menidia beryllina</i> 1250 ppm [96 hours] <u>Effect:</u> Mortality</p> |
| phenol | <p>Acute - LC50 - Fresh water Fish - common carp - <i>Cyprinus carpio</i> - Larvae <u>Size:</u> 8 mm 1.75 µg/l [96 hours] <u>Effect:</u> Mortality</p> <p>Acute - LC50 - Marine water Crustaceans - Opossum shrimp - <i>Archaeomysis kokuboi</i> - Juvenile (Fledgling, Hatchling, Weanling) 800 µg/l [48 hours] <u>Effect:</u> Mortality</p> <p>Chronic - NOEC - Fresh water Fish - Rainbow trout, donaldson trout - <i>Oncorhynchus mykiss</i> 118 µg/l [90 days] <u>Effect:</u> Mortality</p> <p>Chronic - NOEC - Fresh water Daphnia - Water flea - <i>Daphnia magna</i> <u>Age:</u> <24 hours 1.5 mg/l [21 days] <u>Effect:</u> Reproduction</p> |

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4-methylpentan-2-one

Chronic - NOEC - Marine water

Algae - Neptune's Necklace - *Hormosira banksii* - Gamete
 16 µg/l [72 hours]
Effect: Development

Acute - EC50 - Fresh water

Algae - Green algae - *Raphidocelis subcapitata*
Age: 4 to 7 days
 61.1 µg/l [96 hours]
Effect: Population

EC50

Algae
 400 mg/l [96 hours]

EC50

Daphnia - *Daphnia magna*
 >200 mg/l [48 hours]

Acute - LC50 - Fresh water

Fish - Fathead minnow - *Pimephales promelas*
Age: 29 days; Size: 21 mm; Weight: 0.141 g
 505 mg/l [96 hours]
Effect: Mortality

Chronic - NOEC - Fresh water

Daphnia - Water flea - *Daphnia magna*
 78 mg/l [21 days]
Effect: Behavior

Chronic - NOEC - Fresh water

Fish - Fathead minnow - *Pimephales promelas* - Embryo
Age: <24 hours
 168 mg/l [33 days]
Effect: Mortality

Formaldehyde, solution

Acute - LC50 - Fresh water

US EPA
 Fish - Rainbow trout, donaldson trout - *Oncorhynchus mykiss*
 1.41 ppm [96 hours]
Effect: Mortality

Chronic - NOEC - Marine water

Algae - Haptophyte - *Isochrysis galbana* - Exponential growth phase
Age: 4 to 5 days
 0.005 mg/l [96 hours]
Effect: Population

Acute - EC50 - Fresh water

Daphnia - Water flea - *Daphnia magna* - Embryo
Age: 8 hours
 3.26 mg/l [48 hours]
Effect: Development

Chronic - NOEC - Fresh water

Crustaceans - European crayfish - *Astacus astacus* - Egg
 3000 ppm [21 days]
Effect: Mortality

Acute - EC50 - Marine water

SECTION 12: Ecological informationAlgae - Green algae - *Ulva pertusa*Size: 9.4 mm

0.442 mg/l [96 hours]

Effect: Reproduction**Chronic - NOEC - Fresh water**Fish - Nile tilapia - *Oreochromis niloticus* - FingerlingWeight: 1.8 g

1.56 mg/l [12 weeks]

Effect: Cells**Conclusion/Summary [Product]** : Not available.**12.2 Persistence and degradability****Product/ingredient name**

n-butyl acetate

ResultOECD [Ready Biodegradability - Closed Bottle Test]
>80% [5 days]

butan-1-ol

OECD [Ready Biodegradability - Modified OECD Screening Test]
>70% [19 days]

1-methoxy-2-propanol

OECD 301E [Ready Biodegradability - Modified OECD Screening Test]
96% [28 days]

2-methylpropan-1-ol

70 to 80% [28 days]

2-butoxyethanol

90.4% [28 days] - Readily

Conclusion/Summary [Product] : Not available.

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|-------------------------|-------------------|------------|------------------|
| n-butyl acetate | - | - | Readily |
| butan-1-ol | - | - | Readily |
| 1-methoxy-2-propanol | - | - | Readily |
| 2-methylpropan-1-ol | - | - | Readily |
| 2-butoxyethanol | - | - | Readily |
| 4-methylpentan-2-one | - | - | Readily |

12.3 Bioaccumulative potential

| Product/ingredient name | LogP _{ow} | BCF | Potential |
|-----------------------------|--------------------|------------------|-----------|
| n-butyl acetate | 2.3 | - | Low |
| xylene | 3.12 | 8.1 to 25.9 | Low |
| butan-1-ol | 1 | - | Low |
| 1-methoxy-2-propanol | <1 | - | Low |
| trizinc bis(orthophosphate) | - | 60960 | High |
| ethylbenzene | 3.6 | - | Low |
| 2-methylpropan-1-ol | 1 | - | Low |
| zinc oxide | - | 28960 | High |
| 2-butoxyethanol | 0.81 | - | Low |
| phenol | 1.47 | 647 [OECD 305 E] | High |
| 4-methylpentan-2-one | 1.9 | - | Low |
| Formaldehyde, solution | 0.35 | - | Low |

SECTION 12: Ecological information**12.4 Mobility in soil****Soil/water partition coefficient**

| Product/ingredient name | logKoc | Koc |
|-------------------------|--------|---------|
| n-butyl acetate | 1.5 | 33.2139 |
| butan-1-ol | 0.51 | 3.22078 |
| 1-methoxy-2-propanol | 1 | 10.447 |
| ethylbenzene | 2.2 | 170.406 |
| 2-methylpropan-1-ol | 1.1 | 12.0246 |
| 2-butoxyethanol | 1.8 | 67.3685 |
| phenol | 1.4 | 27.0339 |
| 4-methylpentan-2-one | 1.6 | 40.9047 |
| Formaldehyde, solution | 0.44 | 2.72646 |

Results of PMT and vPvM assessment

| Product/ingredient name | PMT | P | M | T | vPvM | vP | vM |
|--|-----|----|----|----|------|----|----|
| n-butyl acetate | No | No | No | No | No | No | No |
| xylene | No | No | No | No | No | No | No |
| butan-1-ol | No | No | No | No | No | No | No |
| 1-methoxy-2-propanol | No | No | No | No | No | No | No |
| trizinc bis(orthophosphate) | No | No | No | No | No | No | No |
| ethylbenzene | No | No | No | No | No | No | No |
| 2-methylpropan-1-ol | No | No | No | No | No | No | No |
| Urea, polymer with formaldehyde, isobutylated | No | No | No | No | No | No | No |
| zinc oxide | No | No | No | No | No | No | No |
| Phosphoric acid, polymer with 4,4'-(1-methylethylidene)bis[phenol] and 2,2'-(1-methylethylidene)bis(4,1-phenyleneoxymethylene)] bis[oxirane] | No | No | No | No | No | No | No |
| 2-butoxyethanol | No | No | No | No | No | No | No |
| phenol | No | No | No | No | No | No | No |
| 4-methylpentan-2-one | No | No | No | No | No | No | No |
| Formaldehyde, solution | No | No | No | No | No | No | No |

Mobility : Not available.**Conclusion/Summary** : The product does not meet the criteria to be considered as a PMT or vPvM.**12.5 Results of PBT and vPvB assessment****Regulation (EC) No. 1907/2006 [REACH]**

| Product/ingredient name | PBT | P | B | T | vPvB | vP | vB |
|---|-----|-----|-----|-----|------|-----|-----|
| n-butyl acetate | No | N/A | N/A | No | N/A | N/A | N/A |
| xylene | No | N/A | No | Yes | No | N/A | No |
| butan-1-ol | No | N/A | N/A | No | N/A | N/A | N/A |
| 1-methoxy-2-propanol | No | N/A | N/A | No | N/A | N/A | N/A |
| trizinc bis(orthophosphate) | No | No | No | No | No | No | No |
| ethylbenzene | N/A | N/A | N/A | Yes | N/A | N/A | N/A |
| 2-methylpropan-1-ol | No | N/A | N/A | No | N/A | N/A | N/A |
| Urea, polymer with formaldehyde, isobutylated | No | N/A | N/A | No | N/A | N/A | N/A |
| zinc oxide | No | No | No | No | No | No | No |
| Phosphoric acid, polymer with 4,4'-(1-methylethylidene)bis[phenol] and 2,2'-(1-methylethylidene)bis(4,1-phenyleneoxymethylene)] | No | N/A | N/A | No | N/A | N/A | N/A |

SECTION 12: Ecological information

| | | | | | | | |
|------------------------|-----|-----|-----|-----|-----|-----|-----|
| bis[oxirane] | No | N/A | N/A | No | N/A | N/A | N/A |
| 2-butoxyethanol | No | N/A | No | Yes | No | N/A | No |
| phenol | No | N/A | N/A | No | N/A | N/A | N/A |
| 4-methylpentan-2-one | No | N/A | N/A | Yes | N/A | N/A | N/A |
| Formaldehyde, solution | N/A | N/A | N/A | No | N/A | N/A | N/A |

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

| Product/ingredient name | PBT | P | B | T | vPvB | vP | vB |
|---|-----|----|----|----|------|----|----|
| n-butyl acetate | No | No | No | No | No | No | No |
| xylene | No | No | No | No | No | No | No |
| butan-1-ol | No | No | No | No | No | No | No |
| 1-methoxy-2-propanol | No | No | No | No | No | No | No |
| trizinc bis(orthophosphate) | No | No | No | No | No | No | No |
| ethylbenzene | No | No | No | No | No | No | No |
| 2-methylpropan-1-ol | No | No | No | No | No | No | No |
| Urea, polymer with formaldehyde, isobutylated | No | No | No | No | No | No | No |
| zinc oxide | No | No | No | No | No | No | No |
| Phosphoric acid, polymer with 4,4'-(1-methylethylidene) bis[phenol] and 2,2'-(1-methylethylidene)bis(4,1-phenyleneoxymethylene)] bis[oxirane] | No | No | No | No | No | No | No |
| 2-butoxyethanol | No | No | No | No | No | No | No |
| phenol | No | No | No | No | No | No | No |
| 4-methylpentan-2-one | No | No | No | No | No | No | No |
| Formaldehyde, solution | No | No | No | No | No | No | No |

Conclusion/Summary Regulation (EC) No. 1272/2008 [CLP] : The product does not meet the criteria to be considered as a PBT or vPvB.

12.6 Endocrine disrupting properties

Not available.

Conclusion/Summary [Product] : The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods**Product**

Methods of disposal : Avoid release to the environment. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazardous waste : Yes.

Disposal considerations : Do not allow to enter drains or watercourses. Dispose of according to all federal, state and local applicable regulations. If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.

European waste catalogue (EWC)

SECTION 13: Disposal considerations

The European Waste Catalogue classification of this product, when disposed of as waste, is:

| Waste code | Waste designation |
|------------|---|
| 08 01 11* | waste paint and varnish containing organic solvents or other hazardous substances |

Packaging





Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Disposal considerations : Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned. Dispose of containers contaminated by the product in accordance with local or national legal provisions.

| Type of packaging | European waste catalogue (EWC) |
|-------------------|--|
| CEPE Guidelines | 15 01 10* packaging containing residues of or contaminated by hazardous substances |

Special precautions : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

| | ADR/RID | ADN | IMDG | IATA |
|---------------------------------|--|--|---|--|
| 14.1 UN number or ID number | UN1263 | UN1263 | UN1263 | UN1263 |
| 14.2 UN proper shipping name | PAINT | PAINTPAINT | PAINT | Paint |
| 14.3 Transport hazard class(es) | 3  | 3  | 3  | 3  |
| 14.4 Packing group | III | III | III | III |
| 14.5 Environmental hazards | Yes. | Yes. | Yes. | Yes. The environmentally hazardous substance mark is not required. |

Additional information

ADR/RID : The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.
Hazard identification number 30
Limited quantity 5 L
Special provisions 163, 640E, 650, 367
Tunnel code (D/E)

ADN : The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.
Special provisions 163, 367, 640E, 650

IMDG : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.
Emergency schedules F-E, _S-E_
Special provisions 163, 223, 367, 955

SECTION 14: Transport information

IATA : The environmentally hazardous substance mark may appear if required by other transportation regulations.
Quantity limitation Passenger and Cargo Aircraft: 60 L. Packaging instructions: 355. Cargo Aircraft Only: 220 L. Packaging instructions: 366. Limited Quantities - Passenger Aircraft: 10 L. Packaging instructions: Y344.
Special provisions A3, A72, A192

14.6 Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Maritime transport in bulk according to IMO instruments : Not available.

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed above the relevant limit.

Substances of very high concern

None of the components are listed above the relevant limit.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

| Product/ingredient name | % | Designation [Usage] |
|-------------------------|-------|---------------------|
| 1-185 1K Primer | ≥90 | 3 |
| Formaldehyde, solution | <0.1 | 72 |
| toluene | ≤0.1 | 48 |
| bisphenol A | <0.01 | 66 |

Labelling : Not applicable.

Synthetic polymer microparticles - Designation 78

Generic identity of polymer(s) : Polyvinyl butyral.

Total percentage of synthetic polymer microparticles : 4.5%

The synthetic polymer microparticles supplied is subject to conditions laid down by entry 78 of Annex XVII to Regulation (EC) No 1907/2006 of the European Parliament and of the Council.

Other EU regulations

VOC : The provisions of Directive 2004/42/EC on VOC apply to this product. Refer to the product label and/or technical data sheet for further information.

VOC for Ready-for-Use Mixture : Not available.

Industrial emissions (integrated pollution prevention and control) - Air : Not listed

Industrial emissions (integrated pollution prevention and control) - Water : Not listed

SECTION 15: Regulatory information

Explosive precursors : Not applicable.

Ozone depleting substances (EU 2024/590)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product may add to the calculation for determining whether a site is within the scope of the Seveso Directive on major accident hazards.

National regulations

Industrial use : The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

- Australia** : All components are listed or exempted.
- Canada** : All components are listed or exempted.
- China** : All components are listed, exempted, or notified.
- Eurasian Economic Union** : **Russian Federation inventory**: Not determined.
- Japan** : **Japan inventory (CSCL)**: At least one component is not listed.
Japan inventory (ISHL): Not determined.
- New Zealand** : All components are listed or exempted.
- Philippines** : Not determined.
- Republic of Korea** : All components are listed or exempted.
- Taiwan** : Not determined.
- Thailand** : Not determined.
- Turkey** : Not determined.
- United States** : Not determined.
- Viet Nam** : Not determined.

15.2 Chemical safety assessment : No Chemical Safety Assessment has been carried out.

SECTION 16: Other information**CEPE code** : 1

✔ Indicates information that has changed from previously issued version.

Abbreviations and acronyms :

- ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
- ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
- ATE = Acute Toxicity Estimate
- B = Bioaccumulative
- BCF = Bioconcentration Factor
- CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
- DMEL = Derived Minimal Effect Level
- DNEL = Derived No Effect Level
- EUH statement = CLP-specific Hazard statement
- IATA = International Air Transport Association
- IMDG = International Maritime Dangerous Goods
- IMO = International Maritime Organization
- M = Mobile
- N/A = Not available
- P = Persistent
- PBT = Persistent, Bioaccumulative and Toxic
- PMT = Persistent, Mobile and Toxic
- PNEC = Predicted No Effect Concentration
- RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
- RRN = REACH Registration Number
- SGG = Segregation Group
- T = Toxic
- vB = Very Bioaccumulative
- vM = Very Mobile
- vP = Very Persistent
- vPvB = Very Persistent and Very Bioaccumulative
- vPvM = Very Persistent and Very Mobile

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

| Classification | Justification |
|-------------------------|-----------------------|
| Flam. Liq. 3, H226 | On basis of test data |
| Skin Irrit. 2, H315 | Calculation method |
| Eye Dam. 1, H318 | Calculation method |
| STOT SE 3, H335 | Calculation method |
| STOT SE 3, H336 | Calculation method |
| STOT RE 2, H373 | Calculation method |
| Asp. Tox. 1, H304 | Calculation method |
| Aquatic Chronic 2, H411 | Calculation method |

Full text of abbreviated H statements

| | |
|------|---|
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H311 | Toxic in contact with skin. |
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H330 | Fatal if inhaled. |
| H331 | Toxic if inhaled. |
| H332 | Harmful if inhaled. |

SECTION 16: Other information

| | |
|--------|--|
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H341 | Suspected of causing genetic defects. |
| H350 | May cause cancer. |
| H351 | Suspected of causing cancer. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| H413 | May cause long lasting harmful effects to aquatic life. |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |

Full text of classifications [CLP/GHS]

| | |
|-------------------|---|
| Acute Tox. 1 | ACUTE TOXICITY - Category 1 |
| Acute Tox. 2 | ACUTE TOXICITY - Category 2 |
| Acute Tox. 3 | ACUTE TOXICITY - Category 3 |
| Acute Tox. 4 | ACUTE TOXICITY - Category 4 |
| Aquatic Acute 1 | SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 |
| Aquatic Chronic 1 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 |
| Aquatic Chronic 2 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 |
| Aquatic Chronic 3 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 |
| Aquatic Chronic 4 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4 |
| Asp. Tox. 1 | ASPIRATION HAZARD - Category 1 |
| Carc. 1B | CARCINOGENICITY - Category 1B |
| Carc. 2 | CARCINOGENICITY - Category 2 |
| Eye Dam. 1 | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 |
| Eye Irrit. 2 | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 |
| Flam. Liq. 2 | FLAMMABLE LIQUIDS - Category 2 |
| Flam. Liq. 3 | FLAMMABLE LIQUIDS - Category 3 |
| Muta. 2 | GERM CELL MUTAGENICITY - Category 2 |
| Skin Corr. 1B | SKIN CORROSION/IRRITATION - Category 1B |
| Skin Irrit. 2 | SKIN CORROSION/IRRITATION - Category 2 |
| Skin Sens. 1 | SKIN SENSITISATION - Category 1 |
| STOT RE 2 | SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 |
| STOT SE 3 | SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3 |

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Notice to reader

The information in this Safety Data Sheet is based on the present state of knowledge and current legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications. The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with. The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation.

SUMI

Safe Use of Mixtures

Information for end-users



Title : Professional spray painting, near-industrial setting

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet and labels.

General description of the process covered

Indoor spray painting by professionals with efficient ventilation such as spray booth or local exhaust ventilation

Operational conditions

Place of use : Indoor use

Risk management measures (RMM)

| Contributing activity | Process category (ies) | Maximum duration | Ventilation | |
|---|------------------------|----------------------|--|---------------------------------------|
| | | | Type | ach (air changes per hour) |
| Preparation of material for application | PROC05 | 1 to 4 hours | Enhanced (mechanical) room ventilation | 5 - 10 |
| Loading of application equipment and handling of coated parts before curing | PROC08a | 15 minutes to 1 hour | Enhanced (mechanical) room ventilation | 5 - 10 |
| Professional application of coatings and inks by spraying | PROC11 | 1 to 4 hours | Local exhaust ventilation | Refer to relevant technical standards |
| Film formation - force drying, stoving and other technologies | PROC04 | 1 to 4 hours | Local exhaust ventilation | Refer to relevant technical standards |
| Cleaning | PROC05 | 1 to 4 hours | Enhanced (mechanical) room ventilation | 5 - 10 |
| Waste management | PROC08a | 15 minutes to 1 hour | Enhanced (mechanical) room ventilation | 5 - 10 |

| Contributing activity | Process category (ies) | Respiratory | Eye | Hands |
|---|------------------------|--|---|---------------------------------------|
| Preparation of material for application | PROC05 | None | Use eye protection according to EN ISO 16321. | Wear suitable gloves tested to EN374. |
| Loading of application equipment and handling of coated parts before curing | PROC08a | None | Use eye protection according to EN ISO 16321. | Wear suitable gloves tested to EN374. |
| Professional application of coatings and inks by spraying | PROC11 | Wear a respirator conforming to EN140 with an assigned protection factor of at least 10. | Use eye protection according to EN ISO 16321. | Wear suitable gloves tested to EN374. |
| Film formation - force drying, stoving and other technologies | PROC04 | Wear a respirator conforming to EN140 with an assigned protection factor of at least 10. | None | None |
| Cleaning | PROC05 | Wear a respirator conforming to EN140 with an assigned protection factor of at least 10. | Use eye protection according to EN ISO 16321. | Wear suitable gloves tested to EN374. |
| Waste management | PROC08a | Wear a respirator conforming to EN140 with | Use eye protection according to EN ISO 16321. | Wear suitable gloves tested to EN374. |

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|--|--|---|--|--|
| | | an assigned protection factor of at least 10. | | |
|--|--|---|--|--|

See section 8 of this Safety Data Sheet for specifications.



Disclaimer

The information in this Safe Use of Mixture Information sheet is based on the data provided by the substance supplier for the substances in the product for which a chemical safety assessment has been carried out at the time of issue. It does not guarantee safe use of the product and does not replace any occupational risk assessment required by legislation. When developing workplace instructions for employees, SUMI sheets should always be considered in combination with the SDS and the label of the product.

No liability is accepted for any damage, no matter of what kind, which is direct or indirect consequence of acts and/or decisions (partly) based on the contents of this document.