# COLORPAK - 2K Epoxy Top Coat
# CPS607, CPS608, CPS622, CPS626

## SECTION 1: IDENTIFICATION

**1.1 Product identifier:** COLORPAK - 2K Epoxy Top Coat
CPS607, CPS608, CPS622, CPS626 **Other means of identification:**

Product numbers:
CPS607, CPS608, CPS622, CPS626

**1.2 Recommended uses and any restrictions on use or supply:**

Relevant uses: Paint

Uses advised against: All uses not specified in this section or in section 7.3

**1.3 Supplier's details:** Maston Oy

Teollisuustie 10
FI 02880 Veikkola - Finland Phone: +358 20 7188 580 maston@maston.fi
www.maston.fi

MANUFACTURER:
Import Distribution Ltd./Formula ID
60B Cryers Road, East Tamaki
2013, Auckland, New Zealand

**1.4 Emergency phone number:** 0800 764 766 (National Poison Centre)

## SECTION 2: HAZARD IDENTIFICATION

**2.1 Classification of the substance or mixture:**

**Hazardous Substances (Hazard Classification) Notice 2020.:**

This product was classified in accordance with Hazardous Substances (Hazard Classification) Notice 2020.

Aerosol 1: Pressurised container: May burst if heated., H229
Aerosol 1: Flammable aerosols, Category 1, H222
Aquatic Chronic 3: Hazardous to the aquatic environment, long-term hazard, Category 3, H412
Carc. 2: Carcinogenicity, Category 2, H351
Eye Irrit. 2: Eye irritation, Category 2, H319
Skin Irrit. 2: Skin irritation, Category 2, H315
Skin Sens. 1: Sensitisation, skin, Category 1, H317
STOT SE 3: Specific toxicity causing drowsiness and dizziness, single exposure, Category 3, H336

**2.2 Label elements, including precautionary statements:**

**Hazardous Substances (Hazard Classification) Notice 2020.:**

**Danger**

**Hazard statements:**

Aerosol 1: H229 - Pressurised container: May burst if heated.
Aerosol 1: H222 - Extremely flammable aerosol.
Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.
Carc. 2: H351 - Suspected of causing cancer.
Eye Irrit. 2: H319 - Causes serious eye irritation.
Skin Irrit. 2: H315 - Causes skin irritation.
Skin Sens. 1: H317 - May cause an allergic skin reaction.
STOT SE 3: H336 - May cause drowsiness or dizziness.

**Precautionary statements:**

## SECTION 2: HAZARD IDENTIFICATION (continued)

CONTINUED ON NEXT PAGE

P101: If medical advice is needed, have product container or label at hand.
P102: Keep out of reach of children.
P103: Read label before use.
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211: Do not spray on an open flame or other ignition source.
P251: Do not pierce or burn, even after use.
P260: Do not breathe spray.
P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.
P501: Dispose of contents and / or their container according to the separated collection system used in your municipality.
**Substances that contribute to the classification** acetone (CAS: 67-64-1) (10 - <30 %); 1-methoxy-2-propanol (CAS: 107-98-2) (10 - <30 %); Bis-[4-(2,3-epoxipropoxi)phenyl] propane (CAS: 1675-54-3) (10 - <30 %); N-butyl acetate (CAS: 123-86-4) (<10 %) **Additional labeling:**

Read label before use
Beware: Deliberately sniffing or inhaling concentrated contents can be harmful or fatal

### 2.3 Other hazards which do not result in classification:

Non-applicable

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances:

Non-applicable

### 3.2 Mixtures:

**Chemical description:** Aerosol

**Components:**

In accordance with Part B: Concentration cut-offs for ingredients in mixtures for purpose of section 3 of Consolidated Hazardous Substances (Safety Data Sheets) Notice 2017, the product contains:

| Identification | Chemical name | Concentration |
|---|---|---|
| CAS: 67-64-1 | **acetone** | **10 - <30 %** |
| CAS: 107-98-2 | **1-methoxy-2-propanol** | **10 - <30 %** |
| CAS: 1675-54-3 | **Bis-[4-(2,3-epoxipropoxi)phenyl]propane** | **10 - <30 %** |
| CAS: 123-86-4 | **N-butyl acetate** | **<10 %** |
| CAS: 78-93-3 | **Butanone** | **<10 %** |
| CAS: 122-51-0 | **Ethyl Orthoformate** | **<10 %** |
| CAS: Non-applicable | **Reaction mass of ethylbenzene and xylene** | **<10 %** |
| CAS: 108-10-1 | **4-methylpentan-2-one** | **<10 %** |
| CAS: 1330-20-7 | **Xylene** | **<10 %** |

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

## SECTION 4: FIRST-AID MEASURES

### 4.1 First aid instructions according to each relevant route of exposure;:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product. **By inhalation:**

CONTINUED ON NEXT PAGE

## SECTION 4: FIRST-AID MEASURES (continued)

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance. **By skin contact:**

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection. **By eye contact:**

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product. **By ingestion/aspiration:**

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

**4.2 Most important symptoms and effects, acute and delayed:**

Acute and delayed effects are indicated in sections 2 and 11.

**4.3 Indication of medical attention and its urgency:**

Non-applicable

## SECTION 5: FIRE-FIGHTING MEASURES

**5.1 Information on the appropriate type of extinguishers or fire-fighting agents:**

**Appropriate type of extinguishers or fire-fighting agents:**

If possible use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers ($CO_2$).

**Inappropriate type of extinguishers or fire-fighting agents:**

IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.

**5.2 Advice on specific hazards that may arise from the substance:**

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

**5.3 Special protective equipment and precautions for fire-fighters:**

Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) **Additional provisions:**

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**6.1 Personal precautions, protective equipment and emergency procedures:**

**For non-emergency personnel:**

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8).
Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Remove any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground. **For emergency responders:**

Wear protective equipment. Keep unprotected persons away. See section 8.

**6.2 Environmental precautions from accidental spills and release;:**

Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

CONTINUED ON NEXT PAGE

## SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)

**6.3 Advice on how to contain and clean up a spill or release:** It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

**6.4 Reference to other sections:** See sections 8 and 13.

## SECTION 7: HANDLING AND STORAGE

**7.1 Precautions for safe handling:** A.-

General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Avoid the evaporation of the product as it contains flammable substances, which could form flammable vapour/air mixtures in the presence of sources of ignition. Control sources of ignition (mobile phones, sparks,...) and transfer at slow speeds to avoid the creation of electrostatic charges. Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.

**7.2 Conditions for safe storage, including any incompatibilities:**

A.- Technical measures for storage

Minimum Temp.: 5 ºC

Maximum Temp.: 50 ºC

Maximum time: 36 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

**7.3 Specific end use(s):**

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1 Occupational exposure limits:**

Substances whose workplace exposure standards (WES) have to be monitored in the work environment:

Workplace exposure standards (WES) and biological exposure indices, Edition 12-1:

| Identification | Occup itional exposure limits | | |
|---|---|---|---|
| 2,6-dimethylheptan-4-one<br>CAS: 108-83-8 | TWA | 25 ppm | 145 mg/m³ |
| | STEL | | |
| 2-methylpropan-1-ol<br>CAS: 78-83-1 | TWA | 50 ppm | 152 mg/m³ |
| | STEL | | |
| Solvent naphtha (petroleum), light arom., < 0.1 % EC 200-753-7<br>CAS: 64742-95-6 | TWA | 400 ppm | 1600 mg/m³ |
| | STEL | | |
| Modified bentonite<br>CAS: 121888-68-4 | TWA | | 10 mg/m³ |
| | STEL | | |
| Titanium dioxide<br>CAS: 13463-67-7 | TWA | | 10 mg/m³ |

CONTINUED ON NEXT PAGE

| | | | |
|---|---|---|---|
| | STEL | | |
| Xylene<br>CAS: 1330-20-7 | TWA | 50 ppm | 217 mg/m³ |
| | STEL | | |
| Toluene<br>CAS: 108-88-3 | TWA | 50 ppm | 188 mg/m³ |
| | STEL | | |

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

CONTINUED ON NEXT PAGE

Workplace exposure standards (WES) and biological exposure indices, Edition 12-1:

| Identification | Occupational exposure limits | | |
|---|---|---|---|
| Ethylbenzene<br>CAS: 100-41-4 | TWA | 100 ppm | 434 mg/m³ |
| | STEL | 125 ppm | 543 mg/m³ |
| acetic anhydride<br>CAS: 108-24-7 | TWA | 5 ppm | 21 mg/m³ |
| | STEL | 5 ppm | 21 mg/m³ |
| 1-methoxy-2-propanol<br>CAS: 107-98-2 | TWA | 100 ppm | 369 mg/m³ |
| | STEL | 150 ppm | 553 mg/m³ |
| acetone<br>CAS: 67-64-1 | TWA | 500 ppm | 1185 mg/m³ |
| | STEL | 1000 ppm | 2375 mg/m³ |
| N-butyl acetate<br>CAS: 123-86-4 | TWA | 150 ppm | 713 mg/m³ |
| | STEL | 200 ppm | 950 mg/m³ |
| Butanone<br>CAS: 78-93-3 | TWA | 150 ppm | 445 mg/m³ |
| | STEL | 300 ppm | 890 mg/m³ |
| Hydrocarbons, C9, aromatics<br>CAS: 128601-23-0 | TWA | 400 ppm | 1600 mg/m³ |
| | STEL | | |
| Reaction mass of ethylbenzene and xylene<br>CAS: Non-applicable | TWA | 50 ppm | 217 mg/m³ |
| | STEL | | |
| Chrome antimony titanium buff rutile<br>CAS: 68186-90-3 | TWA | | 0.005 mg/m³ |
| | STEL | | |
| 4-methylpentan-2-one<br>CAS: 108-10-1 | TWA | 50 ppm | 205 mg/m³ |
| | STEL | 75 ppm | 307 mg/m³ |
| Dimethyl ether<br>CAS: 115-10-6 | TWA | 400 ppm | 766 mg/m³ |
| | STEL | 500 ppm | 958 mg/m³ |

## 8.2 Engineering controls:

A.- Identification of the specific types of personal protective equipment

As a preventative measure it is recommended to use basic Personal Protection Equipment. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,…) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1.
All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

| Pictogram | PPE | Remarks |
|---|---|---|
|  <br>Mandatory respiratory tract protection | Filter mask for gases, vapours and particles | Replace when an increase in resistence to breathing is observed and/or a smell or taste of the contaminant is detected. |

C.- Specific protection for the hands

| Pictogram | PPE | Remarks |
|---|---|---|
|  <br>Mandatory hand protection | Chemical protective gloves (Material: Linear low -density polyethylene (LLDPE), Breakthrough time: > 480 min, Thickness: 0.062 mm) | Replace the gloves at any sign of deterioration. |

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

D.- Eye and face protection

| Pictogram | PPE | Remarks |
|---|---|---|

CONTINUED ON NEXT PAGE

| | | |
|---|---|---|
|  Mandatory face protection | Panoramic glasses against splash/projections. | Clean daily and disinfect periodically according to the manufacturer´s instructions. Use if there is a risk of splashing. |

E.- Bodily protection

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

CONTINUED ON NEXT PAGE

| Pictogram | PPE | Remarks |
|---|---|---|
|  Mandatory complete body protection | Antistatic and fireproof protective clothing | Limited protection against flames. |
|  Mandatory foot protection | Safety footwear with antistatic and heat resistant properties | Replace boots at any sign of deterioration. |

F.- Additional emergency measures

| Emergency measure | Standards | Emergency measure | Standards |
|---|---|---|---|
|  Emergency shower | ANSI Z358-1<br>ISO 3864-1:2011, ISO 3864-4:2011 |  Eyewash stations | DIN 12 899<br>ISO 3864-1:2011, ISO 3864-4:2011 |

**Environmental exposure controls:**

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

For complete information see the product datasheet. **Appearance:**

Physical state at 20 ºC: Aerosol

Appearance: Not available Colour: Not available Odour: Not available

Odour threshold: Non-applicable *

**Volatility:**

Initial boiling point and boiling range: -25 - 330 ºC (Propellant)

Vapour pressure at 20 ºC: 359970 Pa

Vapour pressure at 50 ºC: 729940.07 Pa (729.94 kPa)

Evaporation rate at 20 ºC: Non-applicable *

**Product description:**

Density at 20 ºC: 810 kg/m³

Relative density at 20 ºC: 0.81

Dynamic viscosity at 20 ºC: Non-applicable * Kinematic viscosity at 20 ºC: Non-applicable *

Kinematic viscosity at 40 ºC: Non-applicable *

Concentration: Non-applicable * pH: Non-applicable *

Vapour density at 20 ºC: Non-applicable *

Partition coefficient n-octanol/water 20 ºC: Non-applicable *

Solubility in water at 20 ºC: Non-applicable * Solubility properties: Non-applicable *

Decomposition temperature: Non-applicable *

*Not relevant due to the nature of the product, not providing information property of its hazards.

CONTINUED ON NEXT PAGE

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

| | |
|---|---|
| Melting point/freezing point: | Non-applicable * |
| Recipient pressure: | Non-applicable * |

**Flammability:**

| | |
|---|---|
| Flash Point: | Non-applicable |
| Flammability (solid, gas): | Non-applicable * |
| Autoignition temperature: | 240 ºC (Propellant) |
| Lower flammability limit: | 0.8 % Volume |
| Upper flammability limit: | 14 % Volume |

**Particle characteristics:**

| | |
|---|---|
| Median equivalent diameter: | Non-applicable |

**9.2 Other information:**

**Information with regard to physical hazard classes:**

Explosive properties: Non-applicable *

Oxidising properties: Non-applicable * Corrosive to metals: Non-applicable

* Heat of combustion: Non-applicable *

Aerosols-total percentage (by mass) of flammable components: Non-applicable *

**Other safety characteristics:**

| | |
|---|---|
| Surface tension at 20 ºC: | Non-applicable * |
| Refraction index: | Non-applicable * |

*Not relevant due to the nature of the product, not providing information property of its hazards.

## SECTION 10: STABILITY AND REACTIVITY

**10.1 Chemical reactivity:**

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

**10.2 Chemical stability:**

Chemically stable under the indicated conditions of storage, handling and use.

**10.3 Possibility of hazardous reactions:**

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

**10.4 List of conditions to avoid or prevent a hazardous situation:** Applicable for handling and storage at room temperature:

| Shock and friction | Contact with air | Increase in temperature | Sunlight | Humidity |
|---|---|---|---|---|
| Not applicable | Not applicable | Risk of combustion | Avoid direct impact | Not applicable |

**10.5 Information on incompatible substances or materials:**

| Acids | Water | Oxidising materials | Combustible materials | Others |
|---|---|---|---|---|
| Avoid strong acids | Not applicable | Avoid direct impact | Not applicable | Avoid alkalis or strong bases |

**10.6 Information on hazardous decomposition products:**

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide ($CO_2$), carbon monoxide and other organic compounds.

## SECTION 11: TOXICOLOGICAL INFORMATION

**11.1 Information on toxicological effects:**

The experimental information related to the toxicological properties of the product itself is not available

Contains glycols. With possibility of effects that are hazardous to the health, it is recommended not to breathe the vapours for long periods of time.

CONTINUED ON NEXT PAGE

## SECTION 11: TOXICOLOGICAL INFORMATION (continued)

**Dangerous health implications:**

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure: A- Ingestion (acute effect):

- Acute toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified ashazardous for consumption. For more information see section 3
- Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nauseaand vomiting.

B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met. However, it contains substances classifiedas hazardous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it contains substancesclassified as hazardous for inhalation. For more information see section 3. C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Produces skin inflammation.
- Contact with the eyes: Produces eye damage after contact.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Exposure to this product can cause cancer. For more specific information on the possible health effects seesection 2.
  IARC: Solvent naphtha (petroleum), light arom., < 0.1 % EC 200-753-7 (3); Titanium dioxide (2B); Xylene (3); Toluene (3);
  Ethylbenzene (2B); Bis-[4-(2,3-epoxipropoxi)phenyl]propane (3); Hydrocarbons, C9, aromatics (3); Reaction mass of ethylbenzene and xylene (3); 4-methylpentan-2-one (2B)
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified ashazardous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substancesclassified as hazardous for this effect. For more information see section 3. E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified ashazardous with sensitising effects. For more information see section 3.
- Skin: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.F- Specific target organ toxicity (STOT) - single exposure:

Exposure in high concentration can cause a breakdown in the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness. G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met,however, it does contain substances which are classified as dangerous due to repetitive exposure. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified ashazardous for this effect. For more information see section 3. H- Aspiration hazard:

Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3. **Other information:** Non-applicable

**Specific toxicology information on the substances:**

| Identification | Acute toxicity | | Genus |
|---|---|---|---|
| 1-methoxy-2-propanol<br>CAS: 107-98-2 | LD50 oral | >5000 mg/kg | |
| | LD50 dermal | >5000 mg/kg | |
| | LC50 inhalation | >20 mg/L | |
| acetone<br>CAS: 67-64-1 | LD50 oral | 5800 mg/kg | Rat |
| | LD50 dermal | 7426 mg/kg | Rabbit |
| | LC50 inhalation | 76 mg/L (4 h) | Rat |

CONTINUED ON NEXT PAGE

## SECTION 11: TOXICOLOGICAL INFORMATION (continued)

| Identification | Acute toxicity | | Genus |
|---|---|---|---|
| N-butyl acetate<br>CAS: 123-86-4 | LD50 oral | 12789 mg/kg | Rat |
| | LD50 dermal | 14112 mg/kg | Rabbit |
| | LC50 inhalation | 23.4 mg/L (4 h) | Rat |
| Ethyl Orthoformate<br>CAS: 122-51-0 | LD50 oral | 7060 mg/kg | Rat |
| | LD50 dermal | 18000 mg/kg | Rabbit |
| | LC50 inhalation | 49.3 mg/L (8 h) | Rat |
| Bis-[4-(2,3-epoxipropoxi)phenyl]propane<br>CAS: 1675-54-3 | LD50 oral | >5000 mg/kg | |
| | LD50 dermal | >5000 mg/kg | |
| | LC50 inhalation | >20 mg/L | |
| Butanone<br>CAS: 78-93-3 | LD50 oral | 4000 mg/kg | Rat |
| | LD50 dermal | 6400 mg/kg | Rabbit |
| | LC50 inhalation | 23.5 mg/L (4 h) | Rat |
| Reaction mass of ethylbenzene and xylene<br>CAS: Non-applicable | LD50 oral | 2100 mg/kg | Rat |
| | LD50 dermal | 1100 mg/kg | Rat |
| | LC50 inhalation | 11 mg/L (4 h) | Rat |
| 4-methylpentan-2-one<br>CAS: 108-10-1 | LD50 oral | >5000 mg/kg | |
| | LD50 dermal | >5000 mg/kg | |
| | LC50 inhalation | 11 mg/L (4 h) | Rat |
| Xylene<br>CAS: 1330-20-7 | LD50 oral | 3523 mg/kg | Rat |
| | LD50 dermal | 1100 mg/kg | |
| | LC50 inhalation | >20 mg/L | |

**Acute Toxicity Estimate (ATE mix):**

| | ATE mix | Ingredient(s) of unknown toxicity |
|---|---|---|
| Oral | >5000 mg/kg (Calculation method) | Non-applicable |
| Dermal | >5000 mg/kg (Calculation method) | Non-applicable |
| Inhalation | >20 mg/L (4 h) (Calculation method) | Non-applicable |

## SECTION 12: ECOLOGICAL INFORMATION

CONTINUED ON NEXT PAGE

The experimental information related to the eco-toxicological properties of the product itself is not available

**12.1 Ecotoxicity (aquatic and terrestrial):**

**Acute toxicity:**

| Identification | | Concentration | Species | Genus |
|---|---|---|---|---|
| acetone<br>CAS: 67-64-1 | LC50 | 5540 mg/L (96 h) | Oncorhynchus mykiss | Fish |
| | EC50 | 8800 mg/L (48 h) | Daphnia pulex | Crustacean |
| | EC50 | 3400 mg/L (48 h) | Chlorella pyrenoidosa | Algae |
| 1-methoxy-2-propanol<br>CAS: 107-98-2 | LC50 | 20800 mg/L (96 h) | Pimephales promelas | Fish |
| | EC50 | 23300 mg/L (48 h) | Daphnia magna | Crustacean |
| | EC50 | 1000 mg/L (168 h) | Selenastrum capricornutum | Algae |
| Bis-[4-(2,3-epoxipropoxi)phenyl]propane<br>CAS: 1675-54-3 | LC50 | 2 mg/L (96 h) | Oncorhynchus mykiss | Fish |
| | EC50 | 1.7 mg/L (48 h) | Daphnia magna | Crustacean |
| | EC50 | 9.4 mg/L (72 h) | Scenedesmus subspicatus | Algae |
| N-butyl acetate<br>CAS: 123-86-4 | LC50 | Non-applicable | | |
| | EC50 | Non-applicable | | |
| | EC50 | 675 mg/L (72 h) | Scenedesmus subspicatus | Algae |
| Butanone<br>CAS: 78-93-3 | LC50 | 3220 mg/L (96 h) | Pimephales promelas | Fish |
| | EC50 | 5091 mg/L (48 h) | Daphnia magna | Crustacean |
| | EC50 | 4300 mg/L (168 h) | Scenedesmus quadricauda | Algae |
| Ethyl Orthoformate<br>CAS: 122-51-0 | LC50 | 592 mg/L (48 h) | Leuciscus idus | Fish |
| | EC50 | 617 mg/L (48 h) | Daphnia magna | Crustacean |
| | EC50 | Non-applicable | | |

## SECTION 12: ECOLOGICAL INFORMATION (continued)

CONTINUED ON NEXT PAGE

| Identification | | Concentration | Species | Genus |
|---|---|---|---|---|
| 4-methylpentan-2-one<br>CAS: 108-10-1 | LC50 | 900 mg/L (48 h) | Leuciscus idus | Fish |
| | EC50 | 862 mg/L (24 h) | Daphnia magna | Crustacean |
| | EC50 | 980 mg/L (48 h) | Scenedesmus subspicatus | Algae |

**Chronic toxicity:**

| Identification | | Concentration | Species | Genus |
|---|---|---|---|---|
| acetone<br>CAS: 67-64-1 | NOEC | Non-applicable | | |
| | NOEC | 2212 mg/L | Daphnia magna | Crustacean |
| Bis-[4-(2,3-epoxipropoxi)phenyl]propane<br>CAS: 1675-54-3 | NOEC | Non-applicable | | |
| | NOEC | 0.3 mg/L | Daphnia magna | Crustacean |
| N-butyl acetate<br>CAS: 123-86-4 | NOEC | Non-applicable | | |
| | NOEC | 23.2 mg/L | Daphnia magna | Crustacean |
| Reaction mass of ethylbenzene and xylene<br>CAS: Non-applicable | NOEC | 1.3 mg/L | Oncorhynchus mykiss | Fish |
| | NOEC | 1.17 mg/L | Ceriodaphnia dubia | Crustacean |
| 4-methylpentan-2-one<br>CAS: 108-10-1 | NOEC | Non-applicable | | |
| | NOEC | 78 mg/L | Daphnia magna | Crustacean |
| Xylene<br>CAS: 1330-20-7 | NOEC | 1.3 mg/L | Oncorhynchus mykiss | Fish |
| | NOEC | 1.17 mg/L | Ceriodaphnia dubia | Crustacean |

## 12.2 Persistence and degradability:

**Substance-specific information:**

| Identification | Degradability | | Biodegradability | |
|---|---|---|---|---|
| acetone<br>CAS: 67-64-1 | BOD5 | Non-applicable | Concentration | 100 mg/L |
| | COD | Non-applicable | Period | 28 days |
| | BOD5/COD | Non-applicable | % Biodegradable | 96 % |
| 1-methoxy-2-propanol<br>CAS: 107-98-2 | BOD5 | Non-applicable | Concentration | 100 mg/L |
| | COD | Non-applicable | Period | 28 days |
| | BOD5/COD | Non-applicable | % Biodegradable | 90 % |
| Bis-[4-(2,3-epoxipropoxi)phenyl]propane<br>CAS: 1675-54-3 | BOD5 | Non-applicable | Concentration | Non-applicable |
| | COD | Non-applicable | Period | 28 days |
| | BOD5/COD | Non-applicable | % Biodegradable | 5 % |
| N-butyl acetate<br>CAS: 123-86-4 | BOD5 | Non-applicable | Concentration | Non-applicable |
| | COD | Non-applicable | Period | 5 days |
| | BOD5/COD | Non-applicable | % Biodegradable | 84 % |
| Butanone<br>CAS: 78-93-3 | BOD5 | 2.03 g O2/g | Concentration | Non-applicable |
| | COD | 2.31 g O2/g | Period | 20 days |
| | BOD5/COD | 0.88 | % Biodegradable | 89 % |
| Ethyl Orthoformate<br>CAS: 122-51-0 | BOD5 | Non-applicable | Concentration | 600 mg/L |
| | COD | Non-applicable | Period | 13 days |

CONTINUED ON NEXT PAGE

| | | | | |
|---|---|---|---|---|
| | BOD5/COD | Non-applicable | % Biodegradable | 95 % |
| 4-methylpentan-2-one<br>CAS: 108-10-1 | BOD5 | 2.06 g O2/g | Concentration | 100 mg/L |
| | COD | 2.16 g O2/g | Period | 14 days |
| | BOD5/COD | 0.95 | % Biodegradable | 84 % |
| Xylene<br>CAS: 1330-20-7 | BOD5 | Non-applicable | Concentration | Non-applicable |
| | COD | Non-applicable | Period | 28 days |
| | BOD5/COD | Non-applicable | % Biodegradable | 88 % |

**12.3 Potential to be bioaccumulative: Substance-specific information:**

| Identification | Bioaccumulation potential | |
|---|---|---|
| acetone<br>CAS: 67-64-1 | BCF | 1 |
| | Pow Log | -0.24 |
| | Potential | Low |

## SECTION 12: ECOLOGICAL INFORMATION (continued)

CONTINUED ON NEXT PAGE

| Identification | Bioaccu ɹulation potential | |
|---|---|---|
| 1-methoxy-2-propanol<br>CAS: 107-98-2 | BCF | 3 |
| | Pow Log | -0.44 |
| | Potential | Low |
| Bis-[4-(2,3-epoxipropoxi)phenyl]propane<br>CAS: 1675-54-3 | BCF | 31 |
| | Pow Log | 3 |
| | Potential | Moderate |
| N-butyl acetate<br>CAS: 123-86-4 | BCF | 4 |
| | Pow Log | 1.78 |
| | Potential | Low |
| Butanone<br>CAS: 78-93-3 | BCF | 3 |
| | Pow Log | 0.29 |
| | Potential | Low |
| Reaction mass of ethylbenzene and xylene<br>CAS: Non-applicable | BCF | 9 |
| | Pow Log | 2.77 |
| | Potential | Low |
| 4-methylpentan-2-one<br>CAS: 108-10-1 | BCF | 2 |
| | Pow Log | 1.31 |
| | Potential | Low |
| Xylene<br>CAS: 1330-20-7 | BCF | 9 |
| | Pow Log | 2.77 |
| | Potential | Low |

**12.4 Mobility in soil:**

| Identification | Absorption/desorption | | Volatility | | |
|---|---|---|---|---|---|
| acetone<br>CAS: 67-64-1 | Koc | 1 | Henry | | 2.93 Pa·m³/mol |
| | Conclusion | Very High | Dry soil | | Yes |
| | Surface tension | 2.304E-2 N/m (25 ºC) | Moist soil | | Yes |
| Bis-[4-(2,3-epoxipropoxi)phenyl]propane<br>CAS: 1675-54-3 | Koc | 450 | Henry | | Non-applicable |
| | Conclusion | Low | Dry soil | | Non-applicable |
| | Surface tension | Non-applicable | Moist soil | | Non-applicable |
| N-butyl acetate<br>CAS: 123-86-4 | Koc | Non-applicable | Henry | | Non-applicable |
| | Conclusion | Non-applicable | Dry soil | | Non-applicable |
| | Surface tension | 2.478E-2 N/m (25 ºC) | Moist soil | | Non-applicable |
| Butanone<br>CAS: 78-93-3 | Koc | 30 | Henry | | 5.77 Pa·m³/mol |
| | Conclusion | Very High | Dry soil | | Yes |
| | Surface tension | 2.396E-2 N/m (25 ºC) | Moist soil | | Yes |
| 4-methylpentan-2-one<br>CAS: 108-10-1 | Koc | Non-applicable | Henry | | Non-applicable |
| | Conclusion | Non-applicable | Dry soil | | Non-applicable |
| | Surface tension | 2.35E-2 N/m (25 ºC) | Moist soil | | Non-applicable |
| Xylene | Koc | 202 | Henry | | 524.86 Pa·m³/mol |

CONTINUED ON NEXT PAGE

| | | | | | |
|---|---|---|---|---|---|
| CAS: 1330-20-7 | Conclusion | Moderate | Dry soil | | Yes |
| | Surface tension | Non-applicable | Moist soil | | Yes |

**12.5 Results of PBT and vPvB assessment:** Non-applicable

**12.6 Other adverse effects:**

Not described

## SECTION 13: DISPOSAL CONSIDERATIONS

**13.1 Appropriate and achievable disposal methods:**

**Special precautions to be taken during disposal:**

## SECTION 13: DISPOSAL CONSIDERATIONS (continued)

CONTINUED ON NEXT PAGE

Consult the authorized waste service manager on the assessment and disposal operations. In case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as nondangerous residue. Waste should not be disposed of to drains. See epigraph 6.2. **Regulations related to waste management:**

Legislation related to waste management:

Consolidated Imports and Exports (Restrictions) Prohibition Order (No 2) 2004
Consolidated Hazardous Substances (Disposal) Notice 2017

## SECTION 14: TRANSPORT INFORMATION

**Transport of dangerous goods by land:**

With regard to NZS 5433.1:2012 Transport of dangerous goods on land


| | | |
|---|---|---|
| | **14.1 UN number:** | UN1950 |
| **14.2** | **UN proper shipping name:** | AEROSOLS |
| | **14.3 UN dangerous goods class and subsidiary risk:** | 2 |
| | Labels: | 2.1 |
| **14.4** | **UN Packing Group:** | N/A |
| | **14.5 Environmental hazards:** | No |
| | **14.6 Special precautions for user** | |
| | Physico-Chemical properties: | see section 9 |
| | **14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** | Non-applicable |

**Transport of dangerous goods by sea:**

With regard to IMDG 40-20:


| | | |
|---|---|---|
| | **14.1 UN number:** | UN1950 |
| **14.2** | **UN proper shipping name:** | AEROSOLS |
| | **14.3 UN dangerous goods class and subsidiary risk:** | 2 |
| | Labels: | 2.1 |
| **14.4** | **UN Packing Group:** | N/A |
| **14.5** | **Marine pollutant:** | No |
| | **14.6 Special precautions for user** | |
| | Special regulations: | 63, 959, 190, 277, 327, 344 |
| | EmS Codes: | F-D, S-U |
| | Physico-Chemical properties: | see section 9 |
| | Limited quantities: | 1 L |
| | Segregation group: | Non-applicable |
| | **14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** | Non-applicable |

**Transport of dangerous goods by air:**

With regard to IATA/ICAO 2023:

## SECTION 14: TRANSPORT INFORMATION (continued)


**2**

| | |
|---|---|
| **14.1 UN number:** | UN1950 |
| **14.2 UN proper shipping name:** | AEROSOLS |
| **14.3 UN dangerous goods class and subsidiary risk:** | 2 |
| Labels: | 2.1 |
| **14.4 UN Packing Group:** | N/A |

CONTINUED ON NEXT PAGE

| | |
|---|---|
| **14.5 Environmental hazards:** | No |
| **14.6 Special precautions for user** | |
| Physico-Chemical properties: | see section 9 |
| **14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** | Non-applicable |

## SECTION 15: REGULATORY INFORMATION

**15.1 Safety, health and environmental regulations specific for the product in question:**

- Substances listed in the Montreal Protocol: Non-applicable
- Substances listed in the Rotterdam Convention: Non-applicable
- Substances listed in the Stockholm Convention: Non-applicable

**Specific provisions in terms of protecting people or the environment:**

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

**Relevant regulatory requirements:**

Health and Safety at Work (Hazardous Substances) Regulations 2017
Health and Safety at Work Act 2015
Consolidated Hazardous Substances (Labelling) Notice 2017
Consolidated Hazardous Substances (Packaging) Notice 2017
Consolidated Hazardous Substances (Hazardous Property Controls) Notice 2017
Consolidated Hazardous Substances (Importers and Manufacturers) Notice 2015

## SECTION 16: OTHER INFORMATION

**Legislation related to safety data sheets:**

This safety data sheet has been designed in accordance with Schedule: Content and format of safety data sheets (clause 7) of Consolidated Hazardous Substances (Safety Data Sheets) Notice 2017 **Texts of the legislative phrases mentioned in section 2:**

H336: May cause drowsiness or dizziness.
H317: May cause an allergic skin reaction.
H351: Suspected of causing cancer.
H315: Causes skin irritation.
H412: Harmful to aquatic life with long lasting effects.
H229: Pressurised container: May burst if heated.
H222: Extremely flammable aerosol.
H319: Causes serious eye irritation.

**Advice related to training:**

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product. **Principal bibliographical sources:**
https://www.epa.govt.nz/

**Abbreviations and acronyms:**

CONTINUED ON NEXT PAGE

## SECTION 16: OTHER INFORMATION (continued)

HSNO Act: Hazardous substances and new organisms Act
IMDG: International maritime dangerous goods code
IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
COD: Chemical Oxygen Demand
BOD5: 5-day biochemical oxygen demand
BCF: Bioconcentration factor
LD50: Lethal Dose 50
CL50: Lethal Concentration 50
EC50: Effective concentration 50
Log-POW: Octanol-water partition coefficient
Koc: Partition coefficient of organic carbon
IARC: International Agency for Research on Cancer



END OF SAFETY DATA SHEET