

# Safety Data Sheet

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

### 1.1 Product identifier

**Product name** : 750 2-PK EPOXY PRIMER BASE GREY  
**Product code** : 0750P6000

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

Intended use : See Technical Data Sheet.  
For professional use only.  
Application methods: See Technical Data Sheet.

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

Cromadex  
Unit 5 Redwood Business Park  
Oldbury Road Smethwick  
West Midlands  
B66 1NJ

**Telephone number** : +44 (0) 121 555 1500  
**Fax no.** : +44 (0) 121 555 6417

### 1.4 Emergency telephone number

#### Supplier

**Telephone number** : +44 (0) 779 965 6086  
**Hours of operation** : 24 Hr  
**Official Advisory Body Telephone No.:** +44 (0)207 635 9191  
**Advice for Doctors and Hospitals**

#### National advisory body/Poison Centre

**Telephone number** :  
**e-mail address of person responsible for this SDS** : uk.marketingservices@akzonobel.com

## 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  
 Skin Sens. 1, H317  
 Aquatic Chronic 2, H411

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

**Ingredients of unknown ecotoxicity** : Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 3.9%

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.

### 2.2 Label elements

**Hazard pictograms** :



**Signal word** : Danger

**Hazard statements** : Flammable liquid and vapour.  
 Causes serious eye damage.  
 Causes skin irritation.  
 May cause an allergic skin reaction.  
 Toxic to aquatic life with long lasting effects.

#### Precautionary statements

**Prevention** : Wear protective gloves: > 8 hours (breakthrough time): polyvinyl alcohol (PVA) , Viton®; 4 - 8 hours (breakthrough time): neoprene , butyl rubber , nitrile rubber; < 1 hour (breakthrough time): natural rubber (latex). Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Avoid release to the environment.

**Response** : IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF IN EYES: Immediately call a POISON CENTER or physician.

**Storage** : Keep cool.

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

**Hazardous ingredients** : Reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin, 700 <mol weight < 1000 butan-1-ol

**Supplemental label elements** : Not applicable.

**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**

**Other hazards which do not result in classification** : None known.

**SECTION 3: Composition/information on ingredients**

**3.2 Mixtures** : Mixture

| Product/ingredient name   | Identifiers  | %         | Classification  | Type    |
|---|--|-----------|---|---------|
| Reaction product: bisphenol-A- (epichlorhydrin) and epoxy resin, 700 <mol weight < 1000 | CAS: 25068-38-6  | ≥10 - ≤25 | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317   | [1]     |
| 2-methoxy-1-methylethyl acetate   | EC: 203-603-9<br>CAS: 108-65-6<br>Index: 607-195-00-7  | ≤10       | Flam. Liq. 3, H226  | [2]     |
| xylene  | EC: 215-535-7<br>CAS: 1330-20-7<br>Index: 601-022-00-9 | ≤10       | Flam. Liq. 3, H226<br>Acute Tox. 4, H312<br>Acute Tox. 4, H332<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>STOT SE 3, H335<br>Asp. Tox. 1, H304 | [1] [2] |
| trizinc bis (orthophosphate)  | EC: 231-944-3<br>CAS: 7779-90-0<br>Index: 030-011-00-6 | ≤5        | Aquatic Acute 1, H400 (M=1)<br>Aquatic Chronic 1, H410 (M=1)  | [1]     |
| ethylbenzene  | EC: 202-849-4<br>CAS: 100-41-4<br>Index: 601-023-00-4  | ≤5        | Flam. Liq. 2, H225<br>Acute Tox. 4, H332<br>STOT RE 2, H373 (hearing organs)<br>Asp. Tox. 1, H304   | [1] [2] |
| butan-1-ol  | EC: 200-751-6<br>CAS: 71-36-3<br>Index: 603-004-00-6   | ≤5        | Flam. Liq. 3, H226<br>Acute Tox. 4, H302<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>STOT SE 3, H335<br>STOT SE 3, H336                           | [1] [2] |

Date of issue/Date of revision : 24/3/2018 Date of previous issue : 13/7/2016. Version : 10 3/20



|                            |   |    |   |         |
|----------------------------|---|----|---|---------|
| 2-(2-butoxyethoxy) ethanol | EC: 203-961-6<br>CAS: 112-34-5<br>Index: 603-096-00-8 | ≤3 | Eye Irrit. 2, H319<br><br><b>See Section 16 for the full text of the H statements declared above.</b> | [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 or vPvBs 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
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern

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.

|  |             |                               |              |                     |      |
|--|-------------|-------------------------------|--------------|---------------------|------|
| <i>Date of issue</i> / <i>Date of revision</i> | : 24/3/2018 | <i>Date of previous issue</i> | : 13/7/2016. | <i>Version</i> : 10 | 4/20 |
|--|-------------|-------------------------------|--------------|---------------------|------|



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 Reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin, 700 <mol weight < 1000. May produce an allergic reaction.

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

**Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**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, CO<sub>2</sub>, powders, water spray.

**Unsuitable extinguishing media** : Do not use water jet.

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

**Hazards from the substance or mixture** : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

**Hazardous thermal decomposition 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.

|                                       |             |                               |              |                |      |      |
|---------------------------------------|-------------|-------------------------------|--------------|----------------|------|------|
| <i>Date of issue/Date of revision</i> | : 24/3/2018 | <i>Date of previous issue</i> | : 13/7/2016. | <i>Version</i> | : 10 | 5/20 |
|---------------------------------------|-------------|-------------------------------|--------------|----------------|------|------|

**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**  
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.

**7.3 Specific end use(s)**

**Recommendations** : Not available.

**Industrial sector specific solutions** : Not available.

**SECTION 8: Exposure controls/personal protection**

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

**8.1 Control parameters**

**Occupational exposure limits**

| Product/ingredient name         | Exposure limit values  |
|---------------------------------|--|
| 2-methoxy-1-methylethyl acetate | <b>EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed through skin.</b><br>STEL: 548 mg/m <sup>3</sup> 15 minutes.<br>STEL: 100 ppm 15 minutes.<br>TWA: 274 mg/m <sup>3</sup> 8 hours.<br>TWA: 50 ppm 8 hours.  |
| xylene                          | <b>EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed through skin.</b><br>STEL: 441 mg/m <sup>3</sup> 15 minutes.<br>STEL: 100 ppm 15 minutes.<br>TWA: 220 mg/m <sup>3</sup> 8 hours.<br>TWA: 50 ppm 8 hours.  |
| ethylbenzene                    | <b>EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed through skin.</b><br>STEL: 552 mg/m <sup>3</sup> 15 minutes.<br>STEL: 125 ppm 15 minutes.<br>TWA: 441 mg/m <sup>3</sup> 8 hours.<br>TWA: 100 ppm 8 hours. |
| butan-1-ol                      | <b>EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed through skin.</b><br>STEL: 154 mg/m <sup>3</sup> 15 minutes.<br>STEL: 50 ppm 15 minutes.  |
| 2-(2-butoxyethoxy)ethanol       | <b>EH40/2005 WELs (United Kingdom (UK), 12/2011).</b><br>STEL: 15 ppm 15 minutes.<br>TWA: 10 ppm 8 hours.<br>TWA: 67.5 mg/m <sup>3</sup> 8 hours.<br>STEL: 101.2 mg/m <sup>3</sup> 15 minutes.                       |



**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. 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**

No DNELs/DMELs available.

**PNECs**

No PNECs available

**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. Contaminated work clothing should not be allowed out of the workplace. 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** : For prolonged or repeated handling, use the following type of gloves:

Recommended: polyvinyl alcohol (PVA) , Viton®

May be used: neoprene , butyl rubber , nitrile rubber

Not recommended: natural rubber (latex)



The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

- Body protection** : Personnel should wear antistatic clothing made of natural fibres or of high-temperature-resistant synthetic fibres.
- 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** : If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators.

Dry sanding, flame cutting and/or welding of the dry paint film will give rise to dust and/or hazardous fumes. Wet sanding/flatting should be used wherever possible. If exposure cannot be avoided by the provision of local exhaust ventilation, suitable respiratory protective equipment should be used.

- Environmental exposure controls** : Do not allow to enter drains or watercourses.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

- Odour** : Solvent.
- Odour threshold** : Not available.
- pH** : Not available.
- Melting point/freezing point** : Not available.
- Initial boiling point and boiling range** : Not available.
- Flash point** : Closed cup: 24°C
- Evaporation rate** : Not available.
- Flammability (solid, gas)** : Not available.
- Upper/lower flammability or explosive limits** : Greatest known range: Lower: 0.8% Upper: 6.7% (xylene)
- Vapour pressure** : Not available.
- Vapour density** : Not available.
- Relative density** : 1.61
- Solubility(ies)** : Insoluble in the following materials: cold water.
- Partition coefficient: n-octanol/water** : Not available.
- Auto-ignition temperature** : Not available.
- Decomposition temperature** : Not available.
- Viscosity** : Kinematic (room temperature): 8.34 cm<sup>2</sup>/s (834 cSt)

### 9.2 Other information

No additional information.

|                                       |             |                               |              |                |      |      |
|---------------------------------------|-------------|-------------------------------|--------------|----------------|------|------|
| <b>Date of issue/Date of revision</b> | : 24/3/2018 | <b>Date of previous issue</b> | : 13/7/2016. | <b>Version</b> | : 10 | 9/20 |
|---------------------------------------|-------------|-------------------------------|--------------|----------------|------|------|

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

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

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 Reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin, 700 <mol weight < 1000. May produce an allergic reaction.

#### **Acute toxicity**

| Product/ingredient name  | Result                 | Species               | Dose                   | Exposure |
|--|------------------------|-----------------------|------------------------|----------|
| Reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin, 700 <mol weight < 1000 | LD50 Dermal            | Rabbit                | >2000 mg/kg            | -        |
| 2-methoxy-1-methylethyl acetate  | LD50 Oral              | Rat                   | >5000 mg/kg            | -        |
|  | LC50 Inhalation Vapour | Rat - Male            | >25.3 mg/l             | 6 hours  |
|  | LD50 Dermal            | Rabbit - Male, Female | >5000 mg/kg            | -        |
| xylene   | LD50 Oral              | Rat - Male, Female    | 6190 mg/kg             | -        |
|  | LC50 Inhalation Vapour | Rat - Male            | 29.7 mg/l              | 4 hours  |
| trizinc bis(orthophosphate)  | LD50 Dermal            | Rabbit                | >4200 mg/kg            | -        |
|  | LD50 Oral              | Rat - Male            | 3523 mg/kg             | -        |
| ethylbenzene   | LC50 Inhalation Vapour | Rat - Male, Female    | >5.41 mg/l             | 4 hours  |
|  | LD50 Dermal            | Rat - Male, Female    | category approach      | -        |
| butan-1-ol   | LD50 Oral              | Rat                   | >5000 mg/kg            | -        |
|  | LC50 Inhalation Vapour | Rat                   | 17.4 mg/l              | 4 hours  |
|  | LD50 Dermal            | Rabbit - Male         | 15400 mg/kg            | -        |
| 2-(2-butoxyethoxy)ethanol  | LD50 Oral              | Rat - Male, Female    | 3500 mg/kg             | -        |
|  | LC50 Inhalation Vapour | Rat - Male, Female    | >17.76 mg/l            | 4 hours  |
|  | LD50 Dermal            | Rabbit - Male         | ***TO BE TRANSLATED*** | -        |
|  | LD50 Oral              | Rat - Female          | 3430 mg/kg             | -        |
|  | LC50 Inhalation Vapour | Rat                   | 2292 mg/kg             | -        |
|  | LC50 Inhalation Vapour | Rat                   | >20 mg/l               | 4 hours  |
|  | LC50 Inhalation Vapour | Rat                   | >0.12 mg/l             | 4 hours  |
|  | LD50 Dermal            | Rat                   | ***TO BE TRANSLATED*** | -        |
|  | LD50 Dermal            | Rabbit - Male         | 2764 mg/kg             | -        |
|  | LD50 Oral              | Mouse - Male          | 5530 mg/kg             | -        |

: Not available.

#### Acute toxicity estimates

| Route                | ATE value     |
|----------------------|---------------|
| Oral                 | 13991.5 mg/kg |
| Dermal               | 13852.9 mg/kg |
| Inhalation (vapours) | 105.4 mg/l    |

#### Irritation/Corrosion



| Product/ingredient name  | Result                             | Species | Score | Exposure | Observation |
|--|------------------------------------|---------|-------|----------|-------------|
| Reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin, 700 <mol weight < 1000 | Skin - Mild irritant               | Rabbit  | -     | -        | -           |
| xylene   | Eyes - Moderate irritant           | Rabbit  | -     | -        | -           |
|  | Skin - Moderate irritant           | Rabbit  | -     | -        | -           |
|  | Eyes - Moderate irritant           | Rabbit  | -     | -        | -           |
| trizinc bis(orthophosphate)  | Eyes - Mild irritant               | Rabbit  | -     | -        | -           |
| ethylbenzene   | Skin - Moderate irritant           | Rabbit  | -     | -        | -           |
|  | Eyes - Mild irritant               | Rabbit  | -     | -        | -           |
| butan-1-ol   | Skin - Irritant                    | Rabbit  | -     | -        | -           |
|  | Skin - Erythema/Eschar             | Rabbit  | 2.75  | 1 hours  | -           |
|  | Skin - Oedema                      | Rabbit  | 2     | 1 hours  | -           |
|  | Eyes - Severe irritant             | Rabbit  | -     | -        | -           |
|  | Eyes - Cornea opacity              | Rabbit  | 2.11  | -        | -           |
|  | Eyes - Iris lesion                 | Rabbit  | 1     | -        | -           |
|  | Eyes - Oedema of the conjunctivae  | Rabbit  | 3     | -        | -           |
|  | Eyes - Redness of the conjunctivae | Rabbit  | 2.89  | -        | -           |
| 2-(2-butoxyethoxy)ethanol  | Skin - Mild irritant               | Rabbit  | -     | -        | -           |
|  | Eyes - Irritant                    | Rabbit  | -     | -        | -           |

**Conclusion/Summary** : Not available.

**Sensitisation**

| Product/ingredient name  | Route of exposure | Species    | Result          |
|--|-------------------|------------|-----------------|
| Reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin, 700 <mol weight < 1000 | skin              | Guinea pig | Sensitising     |
| 2-methoxy-1-methylethyl acetate  | skin              | Guinea pig | Not sensitizing |
| trizinc bis(orthophosphate)  | skin              | Guinea pig | Not sensitizing |

**Conclusion/Summary** : Not available.

**Mutagenicity**

**Conclusion/Summary** : Not available.

**Carcinogenicity**

**Conclusion/Summary** : Not available.

**Reproductive toxicity**

**Conclusion/Summary** : Not available.

**Teratogenicity**

**Conclusion/Summary** : Not available.

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



| Product/ingredient name | Category   | Route of exposure | Target organs                                     |
|-------------------------|------------|-------------------|---|
| xylene                  | Category 3 | Not applicable.   | Respiratory tract irritation                      |
| butan-1-ol              | Category 3 | Not applicable.   | Respiratory tract irritation and Narcotic effects |

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

| Product/ingredient name | Category   | Route of exposure | Target organs  |
|-------------------------|------------|-------------------|----------------|
| ethylbenzene            | Category 2 | Not determined    | hearing organs |

**Aspiration hazard**

| Product/ingredient name | Result                         |
|-------------------------|--------------------------------|
| xylene                  | ASPIRATION HAZARD - Category 1 |
| ethylbenzene            | ASPIRATION HAZARD - Category 1 |

**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  | Result   | Species                                 | Exposure |
|--|--|---|----------|
| Reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin, 700 <mol weight < 1000 | Acute EC50 >100 mg/l                                     | Algae                                   | 72 hours |
|  | Acute EC50 >100 mg/l                                     | Daphnia                                 | 48 hours |
|  | Acute LC50 >100 mg/l                                     | Fish                                    | 96 hours |
| 2-methoxy-1-methylethyl acetate  | Acute EC50 >1000 mg/l Fresh water                        | Algae - Pseudokirchneriella subcapitata | 96 hours |
|  | Acute EC50 >500 mg/l Fresh water                         | Daphnia - Daphnia magna                 | 48 hours |
|  | Acute LC50 >100 mg/l Fresh water                         | Fish - Oncorhynchus mykiss              | 96 hours |
|  | Chronic NOEC >1000 mg/l Fresh water                      | Algae - Pseudokirchneriella subcapitata | 96 hours |
| xylene   | Chronic NOEC >100 mg/l Fresh water                       | Daphnia - Daphnia magna                 | 21 days  |
|  | Acute EC50 4.36 mg/l ***TO BE TRANSLATED*** Fresh water  | Algae - Pseudokirchneriella subcapitata | 72 hours |
|  | Acute EC50 1 mg/l ***TO BE TRANSLATED*** Fresh water     | Daphnia - Daphnia magna                 | 24 hours |
|  | Acute LC50 4.2 mg/l ***TO BE TRANSLATED*** Fresh water   | Fish - Oncorhynchus mykiss              | 96 hours |
|  | Chronic EC10 1.9 mg/l ***TO BE TRANSLATED*** Fresh water | Algae - Pseudokirchneriella subcapitata | 72 hours |
|  |  |   |          |

**Date of issue/Date of revision** : 24/3/2018 **Date of previous issue** : 13/7/2016. **Version** : 10 13/20



|                             |  |  |   |
|-----------------------------|--|--|---|
| trizinc bis(orthophosphate) | Chronic NOEC 1.17 mg/l ***TO BE TRANSLATED*** Fresh water<br>Chronic NOEC >1.3 mg/l Fresh water<br>Acute EC50 0.04 mg/l<br>Acute IC50 0.136 mg/l   | Daphnia - Ceriodaphnia dubia<br>Fish - Oncorhynchus mykiss<br>Daphnia - Daphnia magna<br>Algae - Selenastrum capricornutum   | 7 days<br>56 days<br>48 hours<br>72 hours   |
| ethylbenzene                | Acute LC50 0.021 mg/l<br>Acute LC50 0.05 mg/l<br>Acute EC50 7.7 mg/l Marine water<br>Acute EC50 3.6 mg/l Fresh water   | Fish - Lepomis Macrochirus<br>Fish - Oncorhynchus Mykiss<br>Algae - Skeletonema costatum<br>Algae - Pseudokirchneriella subcapitata  | 96 hours<br>96 hours<br>96 hours<br>96 hours  |
| butan-1-ol                  | Acute EC50 1.81 mg/l Fresh water<br>Acute LC50 0.49 mg/l Marine water<br><br>Acute LC50 5.1 mg/l Marine water<br>Acute LC50 12.1 mg/l Fresh water<br>Acute EC50 225 mg/l Fresh water   | Daphnia - Daphnia magna<br>Crustaceans - Crago franciscorium<br>Fish - Menidia menidia<br>Fish - Pimephales promelas<br>Algae - Pseudokirchneriella subcapitata  | 48 hours<br>96 hours<br>96 hours<br>96 hours<br>96 hours                                    |
| 2-(2-butoxyethoxy)ethanol   | Acute EC50 1328 mg/l Fresh water<br>Acute LC50 1376 mg/l Fresh water<br>Acute NOEC 149 mg/l Fresh water<br><br>Chronic NOEC 4.1 mg/l Fresh water<br>Acute EC50 >100 mg/l Fresh water<br><br>Acute EC50 >100 mg/l Fresh water<br>Acute LC50 1300 mg/l Fresh water<br>Chronic NOEC >100 mg/l Fresh water | Daphnia - Daphnia magna<br>Fish - Pimephales promelas<br>Algae - Pseudokirchneriella subcapitata<br>Daphnia - Daphnia magna<br>Algae - Desmodesmus subspicatus<br>Daphnia - Daphnia magna<br>Fish - Lepomis macrochirus<br>Algae - Desmodesmus subspicatus | 48 hours<br>96 hours<br>96 hours<br>21 days<br>96 hours<br>48 hours<br>96 hours<br>96 hours |

**Conclusion/Summary** : Not available.

### 12.2 Persistence and degradability

| Product/ingredient name         | Test | Result           | Dose | Inoculum |
|---------------------------------|------|------------------|------|----------|
| 2-methoxy-1-methylethyl acetate | -    | 83 % - 28 days   | -    | -        |
| xylene                          | -    | 87.8 % - 28 days | -    | -        |
| ethylbenzene                    | -    | 79 % - 28 days   | -    | -        |
| butan-1-ol                      | -    | 92 % - 20 days   | -    | -        |
| 2-(2-butoxyethoxy)ethanol       | -    | 85 % - 28 days   | -    | -        |

**Conclusion/Summary** : Not available.

| Product/ingredient name         | Aquatic half-life | Photolysis | Biodegradability |
|---------------------------------|-------------------|------------|------------------|
| 2-methoxy-1-methylethyl acetate | -                 | -          | Readily          |
| xylene                          | -                 | -          | Readily          |
| trizinc bis(orthophosphate)     | -                 | -          | Not readily      |
| ethylbenzene                    | -                 | -          | Readily          |
| butan-1-ol                      | -                 | -          | Readily          |
| 2-(2-butoxyethoxy)ethanol       | -                 | -          | Readily          |

### 12.3 Bioaccumulative potential

|                                       |             |                               |              |                |      |       |
|---------------------------------------|-------------|-------------------------------|--------------|----------------|------|-------|
| <b>Date of issue/Date of revision</b> | : 24/3/2018 | <b>Date of previous issue</b> | : 13/7/2016. | <b>Version</b> | : 10 | 14/20 |
|---------------------------------------|-------------|-------------------------------|--------------|----------------|------|-------|





| Product/ingredient name         | LogP <sub>ow</sub> | BCF   | Potential |
|---------------------------------|--------------------|-------|-----------|
| 2-methoxy-1-methylethyl acetate | 1.2                | -     | low       |
| xylene                          | 3.12               | <25.9 | low       |
| ethylbenzene                    | 3.6                | 1     | low       |
| butan-1-ol                      | 1                  | 3.16  | low       |
| 2-(2-butoxyethoxy)ethanol       | 1                  | -     | low       |

#### 12.4 Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**Mobility** : Not available.

#### 12.5 Results of PBT and vPvB assessment

**PBT** : Not applicable.

**vPvB** : Not applicable.

**12.6 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).

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.

#### 13.1 Waste treatment methods

##### Product

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste** : The classification of the product may meet the criteria for a hazardous waste.

**European waste catalogue (EWC)** :

| Waste code    | Waste designation   |
|---------------|---|
| EWC 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.
- 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   | IMDG  | IATA   |
|---------------------------------|---|---|--|
| 14.1 UN number                  | UN1263  | UN1263  | UN1263   |
| 14.2 UN proper shipping name    | PAINT   | PAINT   | PAINT  |
| 14.3 Transport hazard class(es) | 3<br>   | 3<br>   | 3<br>  |
| 14.4 Packing group              | III   | III   | III  |
| 14.5 Environmental hazards      | Yes.  | Yes.  | No.  |
| Additional information          | The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.<br><br><b>Special provisions</b><br>640 (E)<br><br><b>Tunnel code</b><br>(D/E) | The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. | The environmentally hazardous substance mark may appear if required by other transportation regulations. |

**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 Transport in bulk according to Annex II of Marpol and the IBC Code** : 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.

###### Substances of very high concern

None of the components are listed.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Not applicable.

#### Other EU regulations

**Europe inventory** : Not determined.

#### Ozone depleting substances (1005/2009/EU)

Not listed.

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

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 (Annexes A, B, C, E)

Not listed.

##### Stockholm Convention on Persistent Organic Pollutants

Not listed.

|   |  |                     |       |
|---|--|---------------------|-------|
| <i>Date of issue/Date of revision</i> : 24/3/2018 | <i>Date of previous issue</i> : 13/7/2016. | <i>Version</i> : 10 | 17/20 |
|---|--|---------------------|-------|

**Rotterdam Convention on Prior Inform Consent (PIC)**

Not listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

**International lists**

**National inventory**

- Australia** : Not determined.
- Canada** : Not determined.
- China** : Not determined.
- Japan** : **Japan inventory (ENCS)**: Not determined.  
**Japan inventory (ISHL)**: Not determined.
- Malaysia** : Not determined.
- New Zealand** : Not determined.
- Philippines** : Not determined.
- Republic of Korea** : Not determined.
- Taiwan** : Not determined.
- Turkey** : Not determined.
- United States** : 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** :
- ATE = Acute Toxicity Estimate
  - 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
  - PBT = Persistent, Bioaccumulative and Toxic
  - PNEC = Predicted No Effect Concentration
  - RRN = REACH Registration Number
  - vPvB = Very Persistent and Very Bioaccumulative

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

| Classification   | Justification   |
|--|---|
| Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Skin Sens. 1, H317<br>Aquatic Chronic 2, H411 | On basis of test data<br>Calculation method<br>Calculation method<br>Calculation method<br>Calculation method |

**Full text of abbreviated H statements**

**Date of issue/Date of revision** : 24/3/2018 **Date of previous issue** : 13/7/2016. **Version** : 10 18/20



|                       |   |
|-----------------------|---|
| H225                  | Highly flammable liquid and vapour.   |
| H226                  | Flammable liquid and vapour.  |
| H302                  | Harmful if swallowed.   |
| H304                  | May be fatal if swallowed and enters airways.                                       |
| H312                  | Harmful in contact with skin.   |
| H315                  | Causes skin irritation.   |
| H317                  | May cause an allergic skin reaction.  |
| H318                  | Causes serious eye damage.  |
| H319                  | Causes serious eye irritation.  |
| H332                  | Harmful if inhaled.   |
| H335                  | May cause respiratory irritation.   |
| H336                  | May cause drowsiness or dizziness.  |
| H373 (hearing organs) | May cause damage to organs through prolonged or repeated exposure. (hearing organs) |
| 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.                                    |

**Full text of classifications [CLP/GHS]**

|                                  |  |
|----------------------------------|--|
| Acute Tox. 4, H302               | ACUTE TOXICITY (oral) - Category 4   |
| Acute Tox. 4, H312               | ACUTE TOXICITY (dermal) - Category 4   |
| Acute Tox. 4, H332               | ACUTE TOXICITY (inhalation) - Category 4   |
| Aquatic Acute 1, H400            | ACUTE AQUATIC HAZARD - Category 1  |
| Aquatic Chronic 1, H410          | LONG-TERM AQUATIC HAZARD - Category 1  |
| Aquatic Chronic 2, H411          | LONG-TERM AQUATIC HAZARD - Category 2  |
| Asp. Tox. 1, H304                | ASPIRATION HAZARD - Category 1   |
| Eye Dam. 1, H318                 | SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1  |
| Eye Irrit. 2, H319               | SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2  |
| Flam. Liq. 2, H225               | FLAMMABLE LIQUIDS - Category 2   |
| Flam. Liq. 3, H226               | FLAMMABLE LIQUIDS - Category 3   |
| Skin Irrit. 2, H315              | SKIN CORROSION/IRRITATION - Category 2   |
| Skin Sens. 1, H317               | SKIN SENSITIZATION - Category 1  |
| STOT RE 2, H373 (hearing organs) | SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (hearing organs) - Category 2             |
| STOT SE 3, H335                  | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 |
| STOT SE 3, H336                  | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3             |

**Date of printing** : 24/3/2018.

**Date of issue/ Date of revision** : 24/3/2018

**Date of previous issue** : 13/7/2016.

**Version** : 10

**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.

|  |             |                               |              |                |      |       |
|--|-------------|-------------------------------|--------------|----------------|------|-------|
| <i>Date of issue</i> / <i>Date of revision</i> | : 24/3/2018 | <i>Date of previous issue</i> | : 13/7/2016. | <i>Version</i> | : 10 | 20/20 |
|--|-------------|-------------------------------|--------------|----------------|------|-------|