# Safety Data Sheet (SDS)
**According to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and GHS**

## Section 1: Identification of the Substance/Mixture and the Company/Undertaking

Product Name: YB1 MULTI PURPOSE EPOXY : YB1 MPC

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## Section 2: Hazard(s) Identification

**GHS Ratings:**

| | | |
|---|---|---|
| Skin corrosive | 2 | Reversible adverse effects in dermal tissue, Draize score: >= 2.3 < 4.0 or persistent inflammation |
| Skin sensitizer | 1 | Skin sensitizer |
| Mutagen | 1B | Known to produce heritable mutations in human germ cellsSubcategory 1B, Positive results: In vivo heritable germ cell tests in mammals, Human germ cell tests, In vivo somatic mutagenicity tests, combined with some evidence of germ cell mutagenicity |
| Carcinogen | 1B | Presumed Human Carcinogen, Based on demonstrated animal carcinogenicity |

**GHS Hazards**

| | |
|---|---|
| H315 | Causes skin irritation |
| H317 | May cause an allergic skin reaction |
| H340 | May cause genetic defects |
| H350 | May cause cancer |

**GHS Precautions**

| | |
|---|---|
| P201 | Obtain special instructions before use |
| P202 | Do not handle until all safety precautions have been read and understood |
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray |
| P264 | Wash thoroughly after handling. |
| P272 | Contaminated work clothing should not be allowed out of the workplace |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection |
| P281 | Use personal protective equipment as required |
| P321 | Specific treatment, see supplemental first aid information. |
| P362 | Take off contaminated clothing and wash before reuse |
| P363 | Wash contaminated clothing before reuse |
| P302+P352 | IF ON SKIN: Wash with soap and water |
| P308+P313 | IF exposed or concerned: Get medical advice/attention |
| P332+P313 | If skin irritation occurs: Get medical advice/attention |
| P333+P313 | If skin irritation or a rash occurs: Get medical advice/attention |
| P405 | Store locked up |

| | |
|---|---|
| P501 | Dispose of contents/container in accordance with local/regional/national/international regulations. Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both. |

**Signal Word: Danger**

## Section 3: Composition/Information on Ingredients

| Chemical Name | CAS number | Weight Concentration % |
|---|---|---|
| Oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-, homopolymer | 25085-99-8 | 80.00% - 90.00% |
| Alkyl (C12-14) glycidyl ether | 68609-97-2 | 5.00% - 10.00% |
| Benzyl alcohol | 100-51-6 | 1.00% - 5.00% |
| 2,4-Pentanediol, 2-methyl- | 107-41-5 | 0.10% - 1.00% |
| Solvent naphtha, petroleum, light aromatic | 64742-95-6 | 0.10% - 1.00% |

## Section 4: First Aid Measures

### 4.1 Description of First Aid Measures

**After Inhalation:** Supply fresh air. If required provide artificial respiration. Keep patient warm. Consult doctor if symptons persist.

**After Eye Contact:** Remove contact lens if worn. Rinse opened eye for several minutes unter running water. If symptoms persist, consult a doctor.

**After Skin Contact:** Immediately wash with wter and soap and rinse thoroughly. If skin irritation continues, consult a doctor.

**After Swallowing:** Rinse out mouth and then drink plenty of water. Do not induce vomiting. Call for medical help immediately.

**Notes to Physician:** Treat symptomatically

## Section 5: Firefighting Measures

Flash Point: 150 C (302 F)

LEL: 1.00 UEL:

### 5.1 Extinguising Media

Alcohol resistant foam

Fire-extinguishing powder

Carbon dioxide

### 5.2 Special Hazards Arising from the Substance of Mixture

Formation of toxic gases is possible during heating or in case of fire.

**5.3 Hazardous Combustion Products**

Carbon oxides

**5.4 Advice for Firefighters**

Wear self-contained respiratory protective device

**5.5 Fire Equipment**

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations

## Section 6: Accidental Release Measures

**6.1 Personal Precautions, Protective Equipment and Emergency Procedures**

Do not breathe vapors

Avoid contact with skin, eyes and clothing

Remove all non-essential people from the affected area.

Ensure adequate ventilation

Wear protective equipment

**6.2 Environmental Precautions:** Do not allow to enter sewers/ surface or ground water. Prevent seepage into sewage system, workpits and cellars

**6.3 Methods and Materials for Containment and Cleaning Up:**

Ensure adequate ventilation.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of the collected material according to regulations

**6.4 Reference to Other Sections**

For personal protection see Section 8

For disposal information see Section 13.

## Section 7: Handling and Storage

**7.1 Precautions for Safe Handling**

Do not breath vapour/spray

Do not get in eyes, on skin, or on clothing

Ensure good ventilation/exhaustions at the workplace

Make sure that all applicable workplace limits are observed.

**7.2 Conditions for Safe Storage, Including any Incompatibilities**

Store in cool, dry conditions in well sealed receptacles

Keep receptacle tightly sealed. Store in dry conditions.

Protect from humidity and water

Storage temperature 10 - 50 °C

Do not store together with oxidizing and acidic materials.

**Requirements to be Met by Storerooms and Receptacles:** Observe all local and national regulations for storage of water polluting products.

### 7.3 Specific End Use(s)

No further relevant information available.

## Section 8: Exposure Controls/Personal Protection

### 8.1 Control Parameters

**Ingredients with limit values that require monitoring at the workplace:**

| Chemical Name / CAS No. | OSHA Exposure Limits | ACGIH Exposure Limits | Other Exposure Limits |
|---|---|---|---|
| Oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)] bis-, homopolymer 25085-99-8 | Not Established | Not Established | Not Established |
| Alkyl (C12-14) glycidyl ether 68609-97-2 | Not Established | Not Established | Not Established |
| Benzyl alcohol 100-51-6 | Not Established | Not Established | Not Established |
| 2,4-Pentanediol, 2-methyl- 107-41-5 | Not Established | 25 ppm Ceiling | NIOSH: 25 ppm Ceiling; 125 mg/m3 Ceiling |
| Solvent naphtha, petroleum, light aromatic 64742-95-6 | Not Established | Not Established | Not Established |

**Additional Information:** The lists that were valid during the creation were used as a basis .

### 8.1 Exposure Controls

**Personal Protective Equipment**

**General Protective and Hygienic Measures**

The usual precautionary measures are to be adhered to when handling chemicals.
Do not eat, drink, smoke or sniff while working
Keep away foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin

### 8.2 Exposure Controls

**Personal Protective Equipment**

**General Protective and Hygienic Measures:**

Eye Protection: Safety glasses with side shields. If splashes are likely to occur, wear goggles.
Respiratory Protection: Use suitable respirator protective device in case of insufficient ventilation .
Use suitable respiratory protective device when aerosol or mist is formed.
Protection of Hands: Protective gloves: to avoid skin problems, the glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Material of Gloves: Neoprene, butyl rubber gloves, the selection of the suitable gloves does not only depend on the material, but also on the further marks of quality and varies from manufacturer to manufacturer several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application. Penetration time of Glove Material: Protective gloves should be replaced at the first signs of wear. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

## Section 9: Physical and Chemical Properties

### 9.1 Information on Basic Physical and Chemical Properties

**Vapor Density** 3.83

**VOC** 4.1 %

**Specific Gravity (SG)** 1.118

**Coating VOC (EPA calculation) lb/gl** 0.38

**Vapor Pressure** 0.41 mmHg

**Boiling Range** 198 to 205 °C, 388 to 402 °F

**Coating VOC (as supplied) lb/gl** 0.38

## Section 10: Stability and Reactivity

### 10.1 Reactivity

Stable under recommeded storage conditions. No decomposition if stored and applied as directed.

UNSTABLE

### 10.2 Chemical Stability

No decomposition if stored and applied as directed.

No data available

### 10.3 Possibility of Hazardous Reactions

No data available

Hazardous polymerization will not occur.

## Section 11: Toxicological Information

**Mixture Toxicity**

Inhalation Toxicity LC50: 313mg/L

**Component Toxicity**

100-51-6 Benzyl alcohol

Oral LD50: 1,230 mg/kg (Rat) Dermal LD50: 2 g/kg (Rabbit) Inhalation LC50: 9 mg/L (Rat)

### 11.1 Information on Toxicological Effects

**Routes of Entry:**

**No data available**

**Target Organs:**

**Eyes** **Central Nervous System** **Skin** **Respiratory System**

**Effects of Overexposure**

**Carcinogenicity:** The following chemicals comprise 0.1% or more of this mixture and are listed and/or classified as carcinogens or potential carcinogens by NTP, IARC, OSHA (mandatory listing), or ACGIH (optional listing).

| CAS Number | Description | % Weight | Carcinogen Rating |
|---|---|---|---|
| 64742-95-6 | Solvent naphtha, petroleum, light aromatic | 1 to 1.0% | Solvent naphtha, petroleum, light aromatic: EU REACH: Present (P) |

## Section 12: Ecological Information

### 12.1 Persistence and Degradability

**Product:** No further relevant information available

### 12.2 Bioaccumulative Potential

**Product:** Bioaccumulation: No further relevant information available

Partition coefficient: n-octanol/water: No further relevant information available

### 12.3 Mobility in Soil

**Product:** Distribution among environmental compartments: No further relevant information available.

**Additional Ecological Information:**

**General notes:** German Hazard Water Class 1

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

### 12.4 Results of PBT and vPvB Assessment

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

### 12.5 Other Adverse Effects

**Product:** No further relevant information available

### 12.6 Toxicity

| Component Ecotoxicity | |
|---|---|
| Benzyl alcohol | 96 Hr LC50 Pimephales promelas: 460 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 10 mg/L [static]<br>48 Hr EC50 water flea: 23 mg/L |
| 2,4-Pentanediol, 2-methyl- | 96 Hr LC50 Pimephales promelas: 10500 - 11000 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 10000 mg/L [static]; 96 Hr LC50 Pimephales promelas: 8690 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 10700 mg/L [static]<br>48 Hr EC50 Daphnia magna: 2700 - 3700 mg/L |
| Solvent naphtha, petroleum, light aromatic | 96 Hr LC50 Oncorhynchus mykiss: 9.22 mg/L<br>48 Hr EC50 Daphnia magna: 6.14 mg/L |

## Section 13: Disposal Considerations

### 13.1 Waste Treatment Methods

**Product:** The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches the chemical or used container. Offer surplus and non-recyclable solutions to a licensed disposal company. Send to a licensed waste management company.

**Contaminated Packaging:** Empty remaining contents. Dispose of as unused product. Do not re-use empty containers

## Section 14: Transport Information

### 14.1 UN Number

| Agency | Proper Shipping Name | UN Number | Packing Group | Hazard Class |
|---|---|---|---|---|
| Not | Regulated | | | |

## Section 15: Regulatory Information

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

| Country | Regulation | All Components Listed |
|---|---|---|

**EU Risk Phrases**

**Safety Phrase**

- None

## Section 16: Other Information

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