



## MATERIAL SAFETY DATA SHEET (MSDS)

Zydex Industries

### 1. Trade Name: Zycosoil™

|              |   |
|--------------|---|
| Product Name | <b>Zycosoil™</b>  |
| Company      | Zydex Industries<br>25/A, Gandhi Oil Mill Compound<br>Gorwa,<br>Vadodara-390016, India<br>Tel.: +91 265 2280865/2283386/2280120<br>Fax: +91 265 2280872 |

*Emergency Number:*

*Call CHEMTREC Day or Night:*

Within USA and Canada: 1-800-424-9300,

Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

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### 2. Composition/information on ingredients:

#### Composition:

|                         |           |
|-------------------------|-----------|
| Organosilicon compound  | 40 %      |
| Solvent Ethylene glycol | 60 % Max. |
| CAS # 107-21-1          |           |

### 3. Possible hazards:

#### HMIS Rating

|              |   |
|--------------|---|
| Health       | 1 |
| Flammability | 0 |
| Reactivity   | 0 |
| Physical     | 1 |

The product contains ethylene glycol as solvent.

The presence of ethylene glycol in the environment does not always lead to exposure. A Person may be exposed by breathing, eating, or drinking the substance or by skin contact. Following exposure to any chemical, the adverse health effects he/she may encounter depend on several factors, including the amount to which he/she is exposed (dose), the way he/she is exposed, the duration of exposure, the form of the chemical and if he/she were exposed to any other chemicals.

Ethylene glycol is not persistent and it is quickly broken down in the environment. It is unlikely that environmental contamination will have any adverse health effects.

Small spills of ethylene glycol on the skin are unlikely to cause harm provided they are washed off immediately. Ethylene glycol is an irritant and splashing it in the eyes could cause stinging, though this should not lead to permanent damage.

Drinking ethylene glycol is dangerous and can cause damage to the kidneys which may lead to serious illness or death if large quantities are swallowed. Ethylene glycol or its solutions are not classified as carcinogens; they are not considered to be cancer-causing chemicals

Ethylene glycol may affect children in the same way as adults, but they may be more sensitive due to their smaller size. Ethylene glycol is unlikely to cause harm to the unborn child if the mother is exposed to amounts of ethylene glycol that do not produce marked signs of toxicity. Studies in animals have provided limited evidence that exposure to high levels of ethylene glycol, sufficient to produce serious adverse effects in the mothers; can also adversely affect the offspring.

#### **4. First aid measures:**

The person should be removed from the source of exposure.

If product (ethylene glycol) is spilled on clothing or skin, remove

soiled clothing, wash the affected area with lukewarm water for at least 10 - 15 minutes and seek medical advice.

If product (ethylene glycol) is splashed in eyes, remove contact lenses, irrigate the affected eye with lukewarm water for at least 10 - 15 minutes and seek medical advice.

If product (ethylene glycol) is inhaled or ingested seek medical advice.

**NOTE TO PHYSICIAN:** Early administration of ethanol may counter the toxic effects of ethylene glycol -- metabolic acidosis and renal damage. Hemodialysis or peritoneal dialysis has been of benefit. New Eng. J. Med. 304:21 1981. 4-methyl pyrazole is an effective blocker of alcohol dehydrogenase and is available now as fomepizole (Antizol) (R) and should be used in the treatment of ethylene glycol and methanol intoxication if available.

Supportive care: Treatment based on judgement of the physician in response to reactions of the patient.

### **5. Fire-fighting methods:**

Suitable extinguishing media are water spray, dry extinguishing media, foam, carbon dioxide (CO<sub>2</sub>). The product is Non-flammable.

### **6. Accidental release measures:**

**Personal precautions:** Use Hand gloves and Safety glass for handling spill.

**Environmental precautions:** Do not let product enter drains and water sources.

**Methods for clearing up:** Contain with absorbent material and dispose. Clean with water.

### **7. Handling and storage:**

**Handling:** Ensure thorough ventilation of stores and work areas

**Protection against fire and explosion:** Keep away from source of ignition and spark.

**Necessary Storage:** Keep tightly closed in a dry and cool place.

## 8. Exposure controls and personal protection:

**Respiratory protection:** Avoid breathing vapor

**Hand protection:** Protective gloves

**Eye protection:** Goggles

**General safety and hygiene:** Usual precautions for handling of chemicals to be observed.

## 9. Physical and chemical properties

|                  |  |
|------------------|--|
| Form             | Liquid                                   |
| Color            | Pale Yellow                              |
| Flash point      | > 80 °C                                  |
| Explosion Hazard | Not known                                |
| Density          | 1.05 g/ml                                |
| Solubility       | Miscible with methanol, alcohol, acetone |
| pH value         | Not Applicable                           |
| Viscosity        | 200-1000 cps at 25 °C.                   |

## 10. Stability and reactivity:

**Chemical Stability:** Stable

**Hazardous Polymerization:** Hazardous polymerization will not occur

**Conditions to Avoid:** Storage below 45°F (10 °C)

**Materials to Avoid:** Oxidizing Materials

**Comments:** None

## 11. Toxicological information:

**The product contains Ethylene Glycol as solvent.**

**See Section 3 for Potential Health Effects.**

**SKIN: The dermal LD50 has not been determined.**

**INGESTION: The lethal dose in humans is estimated to be 3oz. or 100ml. The oral LD50 for rats is between 6000-13,000 mg/kg.**

**MUTAGENICITY (THE EFFECTS ON GENETIC MATERIAL): In vitro mutagenicity studies were negative. Animal mutagenicity studies were negative.**

## 12. Ecological information:

**Environmental Fate and Distribution:** No specific information is available

**Ecotoxicity:** No specific information is available

**Persistence and Degradation:** No specific information is available

## 13. Disposal Consideration:

Product must be disposed according to local and state government regulations or it should be incinerated.

Contaminated packaging: Uncontaminated packs can be re-used. Packages that cannot be cleaned should be disposed of in the same manner as the contents.

## 14. Transportation information:

Not a hazardous material for transportation.

DOT regulations

Hazard class: None

Land transport ADR/RID (Cross-border)

ADR/RID Class: Not regulated.

**15. Regulatory information:**

USA

TOXIC SUBSTANCES CONTROL ACT (TSCA): All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.

**16. Other Information:**

These data are offered in good faith as typical values and not as product specifications. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.

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*PS: The information contained herein is based on the present state of our knowledge and does not therefore guarantee certain properties. Recipients of our product must take responsibility for observing existing laws and regulations.*  
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