



MATERIAL SAFETY DATA SHEET (MSDS)

Zydex Industries

Product Name: Zycosoil™

Issue Date: 18/03/2009

1. Trade Name: Zycosoil™

Product Name : **Zycosoil™**

Company : Zydex Industries
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Gorwa, Vadodara-390016, India

Emergency information:

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2. Composition/information on ingredients:

Organosilicon compound : Zycosoil
Trade Name

Ethylene Glycol solvent : 60% Max
[CAS # 107-21-1]

3. Possible hazards:

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.

5. Fire fighting measures:

Suitable extinguishing media are water spray, dry extinguishing media, foam, carbon dioxide (CO₂). The product is Non-flammable.

Flash Point (Close cup) >80 °C or >176 °F

Autoignition temperature >400 °C

Explosion Limit 3.2%-15.3%

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: No special measures necessary

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

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8. Exposure controls, personal protection and Personal protective equipment

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 (Close cup)	>80 °C or >176 °F
Melting Point	-2 °C
Explosion Hazard	No Explosion Hazard
Density	1.05 g/ml
Solubility	Miscible with Water, methanol, alcohol, acetone
PH value	Not Applicable
Viscosity	200-1000 cps at 25 oC.

10. Stability and reactivity:

Chemical Stability: Stable

Hazardous Polymerization: Hazardous polymerization will not occur

Conditions to Avoid: None

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. The product contains Ethylene Glycol as solvent.

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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. Transport 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.

