

Product name: MEYLE ZH-M
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Date: 22/02/06
 Revised date: 07/02/06

1. Substance/ Product Identification

Product Trade Name: **MEYLE ZH-M** / Art.-No.: 014 020 6400
 Plant Address: MEYLE Products Gaertner GmbH
 Merkkuring 111
 22 143 Hamburg ; Tel.: #49 / 40 / 67506-510 / Fax: #49 / 40 / 67506-506
 CAS Number: Mixture of several ones / Confidential
 Synonyms: None
 Preparation/ Revision Date: 7th February 2006
 Generic Chemical Name: Mixture
 Product Type: Central Hydraulic-Motor oil
 Emergency Phone Number: +49-40-67506-510

2. Composition/ Information on Ingredients

Hazardous Ingredients (in acc. to Dangerous Preparation Directive 1999/45/EC)

Components	Weight- %	Labels	R-phrases	CAS No.
Zn-free P-/ S-package	<1.5	N	R51/53	confidential

3. Hazards Identification

Principal Hazards: If the product comes in contact with skin, eyes flush immediately with plenty of water. In case of swallowing please contact the physician.
 Labelling: --
 Dangerous compounds: see chapter 2; R-sentence descriptions, see chapter 16.
 Additional advices / hints: Please advise the personal stuff of the a.m. product components.

4. First Aid Measures

Ingestion: DO NOT INDUCE VOMITING. If conscious, give 2 glasses of water. Get immediate medical attention.
 Eyes: Flush immediately with water for at least 15 minutes. Get immediate medical attention.
 Skin: Wash with soap and water. Remove contaminated clothing. Get medical attention of irritation develops. Launder contaminated clothing before reuse.
 Inhalation: Remove exposed person to fresh air if adverse effects are observed.

Additional Information: Note to physician: Treat symptomatically.

5. Fire Fighting Measures

Flash Point: >100°C COC (Typical)
 Extinguishing Media: CO₂, dry chemical, or foam. Water can be used to cool and protect exposed material.
 Firefighting Procedures: Recommend wearing self-contained breathing apparatus. Water may cause splattering.
 Unusual Fire & Explosion Hazards: Toxic fumes, gases (H₂S, CO, CO₂, NO_x, SO_x etc.) or vapors may evolve on burning.

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6. Accidental Release Measures

Spill Procedures: Personal Protective Equipment must be worn, see Personal Protection Section for PPE recommendations. Ventilate area if spilled in confined space or other poorly ventilated areas. Prevent entry into sewers and water-ways. Pick up free liquid for recycle/ disposal. Residual liquid can be absorbed on inert material. Check under Transportation and Labelling (DOT/CERCLA) and Other Regulatory Information Section (SARA) for hazardous Substances to determine regulatory reporting requirement for spills.

7. Handling and Storage

Loading Temperature: Not determined.

Maximum Handling: Max. 60°C.

Temperature
Handling Procedure: Keep containers closed when not in use. Wash thoroughly after handling. Empty container contains product residue which may exhibit hazards of product.

Maximum Storage
Temperature: Not determined.

Storage Procedures: No special storage precautions required.

Handling Procedures: Safety glasses and gloves are recommended. Avoid contact with skin or eyes.

8. Exposure Controls/ Personal Protection

Exposure Limits H₂S (CAS-No. 7783-06-4)
MAK: 14mg/m³ = 10ml/m³

Other Exposure Limits: Under decomposition temperature H₂S may be generated. Under these conditions which may generate H₂S, observe the ACGIH STEL of 14mg/m³ (10ml/m³).

Ventilation Procedures: Use local exhaust ventilation to control mists or vapors.

Hand Protection: Nitrile rubber.

Eye Protection: Chemical goggles or faceshield.

Respiratory Protection: Use full face respirator with a combination organic vapor and dust/ mist cartridge if the recommended exposure limit is exceeded.

Clothing
Recommendation: A long sleeve shirt is recommended.

9. Physical and Chemical Properties

Appearance: Dark red (or colourless) liquid

Smell: Characteristical

Flash Point: >100°C COC

Upper Flammable Limit: Not determined.

Lower Flammable Limit: Not determined.

Autoignition Point: Not determined.

Explosion Data: Material does not have explosive properties.
Vapour Pressure: Not Determined.

pH: Not determined.

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Specific Gravity: Approx. 0.86 g/cm³ (@15.6°C) typically
Water Solubility: Insoluble.
Evaporation Rate: Not determined.
Viscosity: Approx. 14-23 mm²/s (@40°C), typically
Odour Threshold: Unknown.
Boiling Point: Not determined.
Pour Point Temperature: Approx. <-50°C

10. Stability and Reactivity

Stability: Material is normally stable at moderately elevated temperatures and pressures.
Decomposition Temperature: Toxic fumes may occur at temperatures above 65°C.
Incompatibility: Oxidizing agents, Halogens and halogenated compounds.
Polymerization: Will not occur.
Thermal Decomposition: Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion. Oxides of C-, N- or S- may occur.

11. Toxicological Information

- Acute Exposure-

Eye Irritation: Prolonged contact may lead to eye irritating, but the product is not a primary eye irritant.
Skin Irritation: Based on data from components or similar materials like other motor oils. Prolonged or repeated skin contact as from clothing wet with material may cause skin irritations and or allergic skin reactions like redness, edema, drying, and cracking of the skin.
Respiratory Irritation: If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract similar to that observed with mineral oil. Based on data from components or similar materials. Under good industrial hygiene practices where all exposure limits are observed, respiratory irritation should not be problem.
Dermal Toxicity: No data available.
Inhalation Toxicity: No data available.
Oral: No data available.
Dermal Sensitization: No data available to indicate product or components may be a primary skin sensitizer. Therefore prolonged contact should be avoided.
Inhalation Sensitization: No data available to indicate product or components may be respiratory sensitizers.

- Chronical Exposure -

Chronic Toxicity: No data available.
Carcinogenicity: This product is formulated with mineral oils which are considered to be severely refined and not considered to be carcinogenic under IARC. All of the oils in this product have been demonstrated to contain <3% extractables by the IP 346 test.

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Acute toxicity of the additive: Oral LD50 (rat): >5000 mg/kg
Dermal LD50 (rabbit): >2000 mg/kg
Inhalation LC50: No data available.

Mutagenicity: No data available.

Reproductive Toxicity: No data available.

Teratogenicity: No data available.

Other: No other health hazards known.

12. Ecological Information

- Environmental Toxicity-

Freshwater Fish
Toxicity: Not determined.

Freshwater Invertebrates
Toxicity: Not determined.

Algae Toxicity: Not determined.

Saltwater Fish Toxicity: Not determined.

Saltwater Invertebrates:
Toxicity: Not determined.

Bacteria Toxicity: Not determined..

Miscellaneous Toxicity: Not determined.

- Environmental Fate -

Biodegradation: Laboratory studies indicate limited biodegradation with non- acclimated sludge, based on component data. Not readily biodegradable.

Bioaccumulation: Not determined.

Soil Mobility: Not determined.

WGK / WPC: Estimated: WGK 2 (WPC 2) acc. to german regulations.

13. Disposal Consideration

Waste Disposal: In accordance with European Law: No dangerous disposal.

14. Transport Information

ICAO/ IATA: Not regulated.

IMDG (Ambient): Not regulated.

IMDG (Elevated): Not regulated.

IMDG EMS: Not applicable.

IMDG MFAG: Not applicable.

IMO Marine Bulk: Not applicable.

ADR/ RID (Ambient): Not regulated.

ADR/ RID (Elevated): Not regulated.

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15. Regulatory Information

Symbol(s): --

Indication of danger: --

Precautionary Labels: S37/ S39 Wear suitable gloves & goggles.
S26 Flush with plenty of water, immediately after contamination.
S24 Avoid skin contact.

[Product contains: Small amounts of P-/S-additives]

16. Other Information

R-phrases, mentioned under chapter 2:

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.