
HOSMAC – S 973

Effective Date: 07/31/01

1. Chemical Product and Company Identification

Generic Name:

Mineral oil based metal working fluid concentrate, Additive

Manufacturer:

UNITECH GmbH, Röntgenstr. 7, D-57439 Attendorn

Telephone Number: 011 49 2722 9376 0

Fax Number: 011 49 2722 9376 76

Emergency Telephone Number: 011 49 2722 9376 54

2. Composition/Information on Ingredients

Mixture of specific additives in mineral oil

3. Hazards Identification

Emergency Overview

The product is slightly alkaline. Unnecessary exposure to the product should be avoided. In case of contact with skin, eyes and clothing, product has to be removed immediately.

Potential Health Effects

Inhalation:

Not expected to be a probable route of exposure to product concentrate. Inhalation of diluted mix can occur in applications where high mist levels are generated. Extended exposure to mist may cause upper respiratory irritation.

Ingestion:

Not orally toxic. Swallowing small quantities may cause nausea or diarrhea.

Skin Contact:

Not expected to be a health hazard from skin exposure.

Eye Contact:

Product may be a primary eye irritant.

Chronic Exposure:

No information available.

Aggravation of Pre-existing Conditions:

May aggravate existing skin irritation where further defatting or skin penetration could occur.

HOSMAC – S 973

4. First Aid Measures

Inhalation:

Remove to fresh air. Get medical attention for any breathing difficulty.

Ingestion:

If concentrate or mix is swallowed, **do not induce vomiting**. Rinse mouth with water. Get medical attention.

Skin Contact:

Wash exposed area with soap and water.

Eye Contact:

Flush immediately with running water. Get medical attention.

5. Fire Fighting Measures

Fire:

Flash point COC?: 140°C (284°F)

Hazardous combustion products: Smoke, fumes, COx

Explosion:

Not considered to be an explosion hazard, except when extremely heated.

Fire Extinguishing Media:

Foam, carbondioxide and dry extinguishing agents

Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. Water spray may be used to keep fire exposed containers cool.

6. Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Collect with absorbent material and by Federal, State and Local regulations.

7. Handling and Storage

Storage place should provide protection against frost and heat. Best stored between 50 and 85°F in a dry and ventilated area.

Keep container tightly closed. Avoid all contact of concentrate with eyes and skin.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:

		Contents
Metalworking fluid (mist)	0,5 mg/m ³ (NIOSH, REL)	100%
Mineral oil (mist)	5 mg/m ³ (OSHA, PEL; ACGIH, TLV)	< 90%

HOSMAC – S 973

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

Skin Protection:

Wear protective gloves (nitrile) and clean body-covering clothing when handling the concentrate.

Eye Protection:

Safety goggles are required when handling the concentrate. Maintain eye wash fountain in work area.

Work/Hygiene Practices:

Good personal hygiene should always be practiced.

9. Physical and Chemical Properties

Appearance:

yellow liquid

Odor:

mild

Solubility:

Miscible in water.

Density:

n.d.

pH @ 20 g/l in water, 20°C (68°F):

8 - 9

% Volatiles by volume @ 21°C (70°F):

0

Boiling Point:

ND

Vapor Density (Air=1):

ND

Vapor Pressure (mm Hg):

ND

Evaporation Rate:

ND

10. Stability and Reactivity

Stability:

Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products:

Hazardous combustion products: Smoke, fumes, COx

Hazardous Polymerization:

Will not occur.

HOSMAC – S 973

Incompatibilities:

Avoid contact with oxidizers or strong acids to product concentrate.

Conditions to Avoid:

Heat, flames, incompatibles.

11. Toxicological Information

Oral rat LD50: >2000 mg/kg (calculated)

Eye Effects: Mild eye irritation expected

12. Ecological Information

This product represents a hazard to water. Keep product out of sewage systems or water bodies. Avoid entering into the ground.

13. Disposal Considerations

For Used Mix: Disposal procedures must comply with Local, County, State and Federal regulations. If pre-treatment is necessary, ultrafiltration or emulsion breaking may be used.

For Unused Concentrate: Concentrate is not a hazardous waste, as defined under 40 CFR 261.

"EMPTY" Containers will contain a residue which is not considered a hazardous waste under RCRA regulations. Drums can be drained to a "drip dry" condition by inversion and can be offered for recycling or scrap.

14. Transport Information

By Land: Not a hazardous material (49 CFR 172.101).

By Air or Vessel: Not a hazardous material (49 CFR 175-176)

15. Regulatory Information

CERCLA Section 103

Components present in this product at a level which could require reporting under 40CFR302.4: None

HOSMAC – S 973

SARA Section 302: Not applicable

SARA Hazard categories, SARA Sections 311/312

Acute	Chronic	Fire	Reactivity	Pressure
Yes	No	Yes	No	No

SARA Sections 313: None

Chemical Inventories

The Ingredients of this product are on the following Chemical Substance Inventories: EINECS TSCA

Poison Schedule: No information found.

WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

16. Other Information

NFPA Ratings: Health: 1 Flammability: 1 Reactivity: 0

Label Hazard Warning:

As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the concentrate product and ensure prompt removal from skin, eyes and clothing.

Label Precautions: None.

Label First Aid: Not applicable.

Product Use: Metal Working Fluid Concentrate, Additive

Revision Information: No changes.

 | The opinions expressed herein are those of qualified experts within UNITECH GmbH and of their
 | suppliers. We believe that the information contained herein is current as of the date of this Material Data
 | Sheet. Since the use of this information and of these opinions and the condition and use of the product
 | are not within the control of UNITECH GmbH, it is the user's obligation to determine the conditions of
 | safe use of the product.
