
HOSMAC – K 50Effective Date: 08/12/05

1. Chemical Product and Company Identification**Generic Name:****Corrosion Protection Fluid Concentrate, water miscible****Manufacturer:**

unitech GmbH, Roentgenstr. 7, D-57439 Attendorn

Telephone Number: 011 49 2722 9376 0

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2. Composition/Information on Ingredients

Mixture of specific corrosion protection additives in water

<u>Ingredient</u>	<u>CAS-No</u>	<u>Percent</u>	<u>Hazardous</u>
Oxazolidine	66204-44-2	2 – 4 %	Yes
Sodium 2-pyridinethiol-1-oxide	3811-73-2	< 1 %	Yes
Triethanolamine	102-71-6	15 – 25 %	Yes

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.

HOSMAC – K 50

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**. Give large amounts of water. Get medical attention. Never give anything by mouth to an unconscious person.

Skin Contact:

In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse.

Eye Contact:

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention.

5. Fire Fighting Measures

Fire:

Product will not ignite except after evaporation of the watercontent.

Explosion:

Not considered to be an explosion hazard, except after evaporation of the watercontent.

Fire Extinguishing Media:

Extinguish surrounding fire with suitable means.

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 discard according to 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.

HOSMAC – K 50

8. Exposure Controls/Personal Protection**Airborne Exposure Limits:**

Triethanolamine	5 mg/m ³ (ACGIH, TLV)	< 25%
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Contents**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:

Wear safety goggles 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:**

slight yellow

Odor:

typical

Solubility:

Miscible in water.

Density:

1080 kg/m³

pH @ 20 g/l in water, 20°C (68°F):

9.5

% Volatiles by volume @ 21°C (70°F):

ND

Boiling Point:

app. 100°C (212°F) water content

Vapor Pressure (mm Hg):

ND

Evaporation Rate:

ND

HOSMAC – K 50

10. Stability and Reactivity**Stability:**

Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products:

Hazardous combustion products: Smoke, fumes, COx, NOx

Hazardous Polymerization:

Will not occur.

Incompatibilities:

Avoid contact with strong oxidizers to product concentrate.

Conditions to Avoid:

Heat, incompatibles.

11. Toxicological Information

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

Skin Effects: 5%- Solution: no effects

Eye Effects: 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: If pre-treatment is necessary, ultrafiltration may be used.

"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.

Disposal procedures must comply with Local, County, State and Federal regulations.

14. Transport Information

Not regulated

HOSMAC – K 50

15. Regulatory Information

SARA Section 302: Not applicable

SARA Hazard categories, SARA Sections 311/312

Acute	Chronic	Fire	Reactivity	Pressure
Yes	No	No	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: 0 Reactivity: 0**Label Hazard Warning:** None**Label Precautions:**

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 First Aid:

In case of contact, immediately flush eyes with a plenty of water for at least 15 minutes and get medical attention. If concentrate or mix is swallowed, do not induce vomiting.

Product Use: Corrosion Protection Fluid Concentrate**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.
