
HOSMAC - H 74

Effective Date: 09/27/01

1. Chemical Product and Company Identification

Generic Name:

Alkaline corrosion protection 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 amines in water

Ingredient	CAS No	Percent	Hazardous
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2-Amino-2-methyl-1-propanol	124-68-5	50 - 90%	Yes

3. Hazards Identification

Emergency Overview

WARNING! HARMFUL IF SWALLOWED OR INHALED. CAUSES SEVERE EYE IRRITATION AND SKIN IRRITATION. MAY CAUSE EYE BURNS. CAUSES RESPIRATORY TRACT IRRITATION.

Potential Health Effects

Information on the human effects from exposure to this substance is limited.

Inhalation:

Causes irritation to the respiratory tract. Symptoms may include coughing, shortness of breath.

Ingestion:

No information found, but material is expected to cause irritation or burns to the gastrointestinal tract.

Skin Contact:

Causes severe irritation with redness, pain, and possibly skin burns.

Eye Contact:

Causes severe irritation. May cause redness, pain, blurred vision, and eye damage.

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Chronic Exposure:

No information found.

Aggravation of Pre-existing Conditions:

No information found.

4. First Aid Measures

Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Ingestion:

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

Skin Contact:

In case of contact, immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician.

Eye Contact:

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

5. Fire Fighting Measures

Fire:

Flash point: >100°C (>212°F) CC

Explosion:

Above flash point, explosive vapor-air mixtures may be formed. Vapors can flow along surfaces to distant ignition source and flash back.

Fire Extinguishing Media:

Dry chemical, alcohol foam, or carbon dioxide. Water spray may be used to keep fire exposed containers cool.

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.

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6. Accidental Release Measures

Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer!

7. Handling and Storage

Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product. Protect against physical damage. Outside or detached storage is preferred. Inside storage should be in a standard flammable liquid storage room or cabinet. Separate from oxidizing materials. Storage and use areas should be No Smoking areas.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:

None established

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.

Personal Respirators (NIOSH Approved):

For conditions of use where exposure to the substance is apparent, consult an industrial hygienist. For emergencies, or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator.

WARNING: Air purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection:

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Eye Protection:

Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

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9. Physical and Chemical Properties

Appearance:

Clear, colorless liquid.

Odor:

Slight ammonia odor.

Solubility:

Miscible in water.

Density:

0,968 kg/l

pH:

11,3 (0.1 molar solution)

% Volatiles by volume @ 21°C (70°F):

app. 75

Boiling Point:

>100°C (212°F)

Melting Point:

ND

Vapor Density (Air=1):

3.0

Vapor Pressure (mm Hg):

No information found

Evaporation Rate (BuAc=1):

No information found

10. Stability and Reactivity

Stability:

Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products:

Burning may produce carbon monoxide, carbon dioxide, nitrogen oxides.

Hazardous Polymerization:

Will not occur.

Incompatibilities:

Copper, brass, aluminum, and oxidizing agents

Conditions to Avoid:

Cold, Heat, flame, ignition sources.

11. Toxicological Information

Oral rabbit LD50: 2900 mg/kg;

Skin rabbit LD50: >2000 mg/kg

Cancer Lists Ingredient	---NTP Carcinogen---		IARC Category
	Known	Anticipated	
----- 2-Amino-2-methyl-1-propanol (124-68-5)	No	No	None

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12. Ecological Information**Environmental Fate:**

This material is not expected to significantly bioaccumulate.

Environmental Toxicity:

This material is not expected to be toxic to aquatic life. The LC50/96-hour values for fish are over 100 mg/l. The EC50/48-hour values for daphnia are over 100 mg/l.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility. Although not a listed RCRA hazardous waste, this material may exhibit one or more characteristics of a hazardous waste and require appropriate analysis to determine specific disposal requirements. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Not regulated

15. Regulatory Information

SARA Section 302 No
SARA Sections 313 No
CERCLA No

SARA Hazard categories, SARA Sections 311/312

Acute	Chronic	Fire	Reactivity	Pressure
Yes	No	Yes	No	No

Chemical Inventories

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

EINECS TSCA DSL

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.

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16. Other Information**NFPA Ratings:** Health: **2** Flammability: **1** Reactivity: **0****Label Hazard Warning:**

WARNING! HARMFUL IF SWALLOWED OR INHALED. CAUSES SEVERE EYE IRRITATION AND SKIN IRRITATION. MAY CAUSE EYE BURNS. CAUSES RESPIRATORY TRACT IRRITATION.

Label Precautions:

Keep container closed.

Use with adequate ventilation.

Avoid breathing vapor.

Wash thoroughly after handling.

Avoid contact with eyes, skin, and clothing.

Keep away from heat and flame.

Label First Aid:

In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If swallowed, give large amounts of water to drink. Never give anything by mouth to an unconscious person. In all cases call a physician immediately.

Revision Information:

MSDS Section(s) changed since last revision of document include:

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.
