

SAFETY DATA SHEET

1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND COMPANY

Product Name **ACCEPTA 2589**

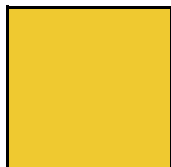
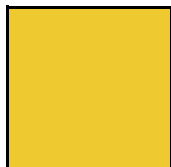
Application A condensate line corrosion inhibitor for steam raising plant.

Supplier **ACCEPTA LTD**
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2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical name	CAS No	% (active)	EINECS-No.	Symbols	R-phrases
Cyclohexylamine	108-91-8	10 - 20%	203-629-0	C-Corrosive, Flammable	R10, R21/22, R34, ,
Morpholine	110-91-8	10 - 20%	203-815-1	C-Corrosive, Flammable	R10, R20/21/22, R34, ,
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3. HAZARDS IDENTIFICATION



Physical / chemical hazards:

Corrosive

Reacts exothermically with acids. Forms nitrosamines (carcinogenic) with nitrite,

Environmental Hazards:

Harmful to aquatic organisms.

Human health hazards:

Causes burns

4. FIRST AID MEASURES

Ingestion: Causes burns to mouth ,and gastrointestinal tract.

Wash out mouth with water then drink plenty of water. Do not induce vomiting. Obtain medical attention and show this datasheet,

Inhalation: Irritating to respiratory tract

Remove to fresh air. Obtain medical advice if symptoms persist.

Skin contact: Irritation and redness of skin. Possible blistering

Wash with soap and water. Remove contaminated clothing for washing.Consult doctor in accordance with symptoms.

Eye contact: Severe irritation. Prolonged contact may cause damage.

Immediately rinse eye with sterile water for 20 minutes. Seek medical advice.

Notes to doctor:

Evacuation of the stomach contents should be undertaken by means least likely to result in aspiration (ie gastric lavage in the presents of endotracheal intubation.) Measures against shock, respiratory depression and convulsions may be required.

5. FIRE FIGHTING MEASURES

Flammability: Non-flammable. However during a fire, it may emit potentially flammable mixtures with air.

Extinguishing media: Water spray jet, extinguishing powder or foam, carbon dioxide .

Unsuitable extinguishing media: None

Hazardous decompositions: Decomposition generates oxides of carbon (CO and CO₂) and nitrogen (NO_x).

Protective equipment: Protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Wear full protective equipment - gloves, eye/face protection and overalls. Ensure sufficient air supply.

Environmental precautions: Do not allow to enter water courses.

Methods of clean up: Small spillages can be flushed to foul drain. Larger spillages should be contained, adsorbed onto inert material and collected into suitable plastic containers. Clearly label. Disposal should be handled by a licensed contractor in accordance with Waste Disposal regulations.

7. HANDLING AND STORAGE

Handling: Avoid direct contact with product. Do not swallow. Before eating, drinking or smoking wash hands with soap and water. Protect from the sun's rays and heat. Do not breathe vapours in a confined space.

Storage: Store above 10 C. Do not allow to freeze. Ensure that the container is firmly secure when not in use.

Shelf life: >12 months

Suitable packaging: Polyethylene and polypropylene containers.

Unsuitable packaging: Metals and alloys.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits:	Substance:	Cyclohexylamine / Morpholine	
EH40/2005	Long term WEL (8 Hr):	10 / 20 ppm	41 / 72 mg/m ³
	Short term WEL (15 min):	- / 30 ppm	- / 109 mg/m ³

Engineering measures: None

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment.

Skin, hand and body protection: Overalls, boots and rubber gloves.

Eye protection: Chemical goggles or face shield.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Solution	Boiling point (C):	>100 C
Colour:	Clear	Decomposition temp (C):	
Odour:	Amine, fishy	Specific Gravity:	0.995
Molecular weight:		Solubility:	Completely miscible
pH:	>12	Flash point (C):	61 C

10. STABILITY AND REACTIVITY

- Stability: Stable under normal conditions.
- Thermal decomposition: Decomposition generates oxides of carbon (CO and CO₂) and nitrogen (NO_x).
- Conditions to avoid: High temperatures and evaporation of water.
- Materials to avoid: Metals and alloys.
- Hazardous reactions: Acids, nitrites.
- Decomposition products: Decomposition generates oxides of carbon (CO and CO₂) and nitrogen (NO_x).

11. TOXICOLOGICAL INFORMATION (of hazardous constituents)

- Acute toxicity: Oral; Cyclohexylamine / Morpholine LD50 (oral/rat) 156 mg/Kg / 1050 mg/Kg
Dermal: Cyclohexylamine / Morpholine LD50 (dermal/rabbit) 227 mg/kg / 50 mg/Kg
Inhalation: Irritant
Eye: Corrosive
- Other data: An inhalation study in animals has shown that repeated exposure produced adverse effects to the liver and kidneys in rats.

12. ECOLOGICAL INFORMATION

- Biodegradability and persistence: Fully biodegradable.
- Ecotoxic effects: Cyclohexylamine (100%) - LC50 (rainbow trout) 96hrs / 55.1 mg/l. Very toxic to algae.
- Other data:

13. DISPOSAL CONSIDERATIONS

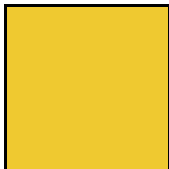
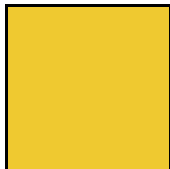
- Methods of disposal: Small quantities can be disposed of via a foul drain. Larger quantities should be handled by a licensed contractor in accordance with Waste Disposal Regulations.
- Packaging disposal: Return empty containers to the supplier for recycling or destroy by cutting up or by incineration. Do not use for potable water.

14. TRANSPORT INFORMATION

- UN No.: 3267 Proper shipping name: PROPER SHIPPING NAME - CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (contains cyclohexylamine and morpholine)

Mode	Regulation	Class	Packing group	Ems No.	Stowage	Code	Subsidiary risk
Road/Rail	European - ADR/RID	8	III				
Sea	IMO / IMDG						
Air	ICAO / IATA						

15. REGULATORY INFORMATION (Classification and labelling according to UK CHIP Regs/EEC Directive 88/379/EEC)



Risk Phrases

R21/22 Harmful in contact with skin and if swallowed

R34 Causes burns

Safety phrases

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S36/37/39 Wear suitable protective clothing gloves and eye/face protection

S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

16. OTHER INFORMATION

The above information is based on current knowledge of the product at the time of publication and is given in good faith.

It is believed to be correct but does not purport to be all-inclusive and shall therefore be used only as a guide. ACCEPTA LTD implies no warranty with respect to the quality, specification or the suitability of the product. The client/user must completely satisfy themselves that the product is entirely suitable for the intended purpose.

In no event shall ACCEPTA LTD be held liable for any injury, loss or damage, to persons, plant or equipment or loss of production/sales resulting from its use or storage.

The information contained in this SDS does not constitute an assessment of work place risks. The customer should undertake a formal COSHH assessment which should ensure that employees are aware of the hazards / precautions detailed in the SDS. The COSHH assessment should ensure that the recommended safety equipment is available and where applicable, that the exposure limits detailed in section 8 are not being exceeded.

References: The Carriage of Goods by Road and Rail Regulations.
The Control of Substances Hazardous to Health Regulations (COSHH).
The Chemicals Hazard Information and Packaging Regulations (CHIP).