



Material Safety Data Sheet

Accepta 2020

Date issued: 01-06-2004

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Product Name:	ACCEPTA 2020
Application:	Boiler steam condensate treatment (mixed neutralising amine)
Company Identification:	Accepta Ltd. Quay West Trafford Wharf Road Manchester M17 1HH United Kingdom
Office telephone number:	+44 (0) 161 240 2100
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Emergency Telephone Number:	+44 (0) 161 240 2100

2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL DESCRIPTION: Water, Cyclohexylamine, Morpholine,

HAZARDOUS INGREDIENTS:

CAS NO.	EINECS NO.	CHEMICAL NAME	WT %	SYMBOL	R-PHRASES
108-91-8	2036290	Cyclohexylamine	20-40	C	10,21/22,34
110-91-8	2038151	Morpholine	5-15	C	10, 20/21/22,34

3. HAZARD IDENTIFICATION

HUMAN HEALTH HAZARDS: Acute

INHALATION: Corrosive to respiratory system. Components of the product may affect the nervous system.

SKIN CONTACT: Causes burns. Can be absorbed through the skin. May cause sensitisation in susceptible individuals.

EYE CONTACT: Causes burns. May cause permanent damage to eyes.

INGESTION: Corrosive, causes burns to gastro-intestinal tract. Nausea, vomiting and stomach pain may occur. In severe cases blood may be vomited. Harmful if swallowed. Liver injury may occur. Kidney injury may occur.

ENVIRONMENTAL HAZARDS: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

PHYSICAL AND CHEMICAL HAZARDS:

FLASH POINT 50°C Minimum but does not support combustion at temperatures up to 75°C.



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4. FIRST AID MEASURES

INHALATION: Remove to fresh air, rest, treat symptomatically. Obtain medical attention.
SKIN CONTACT: Speed is essential. Remove contaminated clothing. Wash off affected area immediately with plenty of water. If severe burns have occurred and areas of skin are destroyed, cover the burned area with clean dry non fluffy material and obtain medical attention.
EYE CONTACT: Speed is essential. Immediately gently irrigate with clean water for at least 15 minutes. Move eyeball and keep eyelids wide open and apart whilst irrigating. Obtain medical attention.
INGESTION: Do not induce vomiting without medical advice. If conscious wash out mouth and give 500ml of water to drink. Obtain medical attention.

ADDITIONAL INFORMATION

Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsions may be needed.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Water, dry powder, carbon dioxide, foam. Water mist may be used to cool closed containers.

FIRE AND EXPLOSION HAZARD: Oxides of nitrogen, Oxides of carbon (under fire conditions).

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTING: In case of fire, wear a full face positive-pressure self contained breathing apparatus and protective suit.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Do not breathe vapour. Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of water. Use personal protective equipment recommended in Section 8. Ensure adequate ventilation. Remove sources of ignition.

ENVIRONMENTAL PRECAUTIONS: Do not allow to enter sewers or water courses. If spillage does enter sewers or water courses, immediately inform the appropriate water authorities.

METHODS FOR CLEANING UP: Contain and absorb with sand or vermiculite and mix well. Collect up and remove to a safe place until disposal. Wash site of spillage thoroughly with water and detergent. Assistance can be obtained from waste disposal companies.



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7. HANDLING AND STORAGE

HANDLING: Do not breathe vapour. Avoid contact with skin and eyes. Use with adequate ventilation. Avoid generating aerosols and mists. No smoking. Avoid use of copper, Zinc, aluminium and their alloys, brass, carbon steel, cast iron, viton, neoprene, polyester elastomers and epoxy resin.

STORAGE CONDITIONS: Keep container tightly closed in a cool, well-ventilated place. Store separately from acids. Storage for more than two years is not recommended.

CONSTRUCTION MATERIAL COMPATIBILITY: Compatible with:
Equipment for storage and application should be constructed from stainless steel, polypropylene, PVC, acrylic resin, ethylene propylene rubber, polyvinylidene difluoride or nylon.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS

NATIONAL REGULATIONS GERMANY

Morpholine: MAK 70 mg/m³ (20 ppm)
Cyclohexylamine: MAK 10 ppm (40 mg/m³)

NATIONAL REGULATIONS UK

Morpholine: OES TWA 20 ppm STEL 30 ppm (skin)
Cyclohexylamine: OES TWA 10 ppm

NATIONAL REGULATIONS SWITZERLAND

Morpholine: TWA 20 ppm, STEL 40 ppm
Cyclohexylamine: TWA 10 ppm, STEL 20 ppm

NATIONAL REGULATIONS FRANCE

Cyclohexylamine: VME 10 ppm, 40 mg/m³
Morpholine: VLE 30 ppm 105 mg/m³, VME 20 ppm 70 mg/m³

NATIONAL REGULATIONS HOLLAND

Cyclohexylamine: MAC TGG 10 ppm
Morpholine: MAC TGG 20 ppm

NATIONAL REGULATIONS SWEDEN

Cyclohexylamine: NGV 20 mg/m³, KTV 40 mg/m³
Morpholine: NGV 35 mg/m³, KTV 50 mg/m³ (skin)



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8. EXPOSURE CONTROL/PERSONAL PROTECTION (cont..)

NATIONAL REGULATIONS FINLAND

Cyclohexylamine: HTP 41 mg/m³ (15 min.) (skin)
Morpholine: HTP 72 mg/m³ (8h), 110 mg/m³ (15 min.) (skin)

NATIONAL REGULATIONS NORWAY

Use only in a closed system.
Cyclohexylamine: TLV 40 mg/m³ (skin)
Morpholine: TLV 70 mg/m³ (skin)

NATIONAL REGULATIONS DENMARK

Cyclohexylamine: GV 40 mg/m³ (skin)
Morpholine: GV 70 mg/m³ (skin)

ENGINEERING MEASURES

Use general ventilation with local exhaust ventilation. Use a closed dosing system.
RESPIRATORY PROTECTION: An approved respirator must be worn if the occupational exposure limit is likely to be exceeded. Wear a cartridge respirator, filter-type ABEK. Amine rich air will be displaced when refilling stock tanks. If it is necessary to remain near to the container at such times and the area is poorly ventilated an approved respirator should be worn.
HAND PROTECTION: Butyl gloves. Most glove materials are of low chemical resistance. Replace gloves regularly.
SKIN PROTECTION: Apron and boots. A full slicker suit is recommended if gross exposure is possible.
EYE PROTECTION: Chemical splash goggles
HYGIENE RECOMMENDATIONS: Keep an eye wash fountain available. Keep a safety shower available. Wash hands during breaks and at end of the shift. If clothing is contaminated, remove clothing and thoroughly wash the affected area. Launder contaminated clothing before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

NOTE: These physical properties are typical values for this product

FORM: Liquid
COLOUR: Clear - light Yellow
ODOUR: Amine
MELTING POINT: NA
FLASH POINT: 57 °C
RELATIVE DENSITY: @25°C 0.975 -0.995
SOLUBILITY IN WATER: Complete
pH 12.1-13.1

Abbreviation: NE = not evaluated, NA = not applicable, NR = not relevant



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10. STABILITY AND REACTIVITY

STABILITY: Stable under ambient conditions

CONDITIONS TO AVOID: Heat. Freezing temperatures.

MATERIALS TO AVOID: Acids, Oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of nitrogen, Oxides of carbon (under fire conditions).

11. TOXICOLOGICAL INFORMATION

Please refer to section 3 for hazards identification.

ACUTE TOXICITY DATA:

ACUTE LETHALITY VALUES: The following results are for a similar product

Oral (rat) LD₅₀ = 779 mg/kg.

Dermal (rabbit) LD₅₀ = 2055 mg/kg.

Inhalation (rat) LC₅₀ = > 12,000 ppm.

PRIMARY (DRAIZE TEST) SKIN/EYE: The following results are for a similar product

Primary skin irritation: 8.0 /8.0

Primary eye irritation 110.0 /110.0

12. ECOLOGICAL INFORMATION

PERSISTENCY AND DEGRADATION: The product is expected to be readily biodegradable.

MOBILITY AND BIOACCUMULATION POTENTIAL: No bioaccumulation expected.

ECOTOXICOLOGICAL EFFECTS:

LC₅₀/96H/Oncorhynchus Mykiss (Rainbow Trout)= 130ppm.

LC₅₀/96H/Pimephales promelus (Fathead Minnow)= 75 mg/l.

LC₅₀/48H/Daphnia magna (Water Flea) = 180 mg/l

ADDITIONAL ECOLOGICAL DATA:



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13. DISPOSAL CONSIDERATIONS

Via authorized contractor. If this product becomes a waste, the final user must define and assign the appropriate European Waste Catalogue code.

NATIONAL REGULATIONS UK: In accordance with the Environmental Protection (Duty of Care) Regulations 1991. Special Waste Regulations 1996 apply.

14. TRANSPORT INFORMATION

Class: 8 Packing Group: II; UN No. 2734
Proper shipping name: AMINES, LIQUID , CORROSIVE, FLAMMABLE, N.O.S. Contains:
Cyclohexylamine, Morpholine,
ADR/RID, H.I.n.: 83
ADR/RID, No: 54 (b)
IMDG Page 8109-1
EmS-Nr.: 8-04
MFAG-Nr.: 320

15. REGULATORY INFORMATION

CLASSIFICATION:
HAZARD SYMBOL: Corrosive



C, CORROSIVE

Contains: Cyclohexylamine, Morpholine,
RISK PHRASES: R34 Causes burns. R22 Harmful if swallowed.
SAFETY PHRASES: S23 Do not breathe vapour. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
NATIONAL REGULATIONS GERMANY
VbF-Klasse: None
WHG-WGK: 2 Classification (VCI-list)
StörfallVO: /12.BImSchV.Liste d. Anh. II): Nr. 3
TA-Luft: Cyclohexylamine Kl. II/3.1.7
Berufsgenossensch. Vorschriften: Take notice of UVV-Chemie.
Hinweise zur Beschäftigungsbeschränkung: Observe § 15 of regulations for hazardous substances.
NATIONAL REGULATIONS UK
COSHH regulations apply. A precaution card is available and should be displayed wherever this product is used and stored (REF.CXnRP)
NATIONAL REGULATIONS FRANCE
Cyclohexylamine: Tableau des maladies professionnelles n°49.
NATIONAL REGULATIONS NORWAY: Registration number 050735



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16. OTHER INFORMATION

Emergency Telephone Number +44 (0) 161 240 2100