



Material Safety Data Sheet

Accepta 2084

Date issued: 01-06-2004

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Product Name:	ACCEPTA 2084
Application:	Oxygen Scavenger: Boiler Water Treatment
Company Identification:	Accepta Ltd. Quay West Trafford Wharf Road Manchester M17 1HH United Kingdom
Office telephone number:	+44 (0) 161 240 2100
Office fax number:	+44 (0) 870 135 6389
Emergency Telephone Number:	+44 (0) 161 240 2100

2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL DESCRIPTION:
Water, 2-Diethylaminoethanol, Organic acid.

HAZARDOUS INGREDIENTS:

CAS NO.	EINECS NO.	CHEMICAL NAME	WT %	SYMBOL	R-PHRASES
100-37-8	2028452	2-Diethylaminoethanol	5 - 10	C	10, 20/21/22, 34

3. HAZARD IDENTIFICATION

HUMAN HEALTH HAZARDS - ACUTE:

INHALATION:
Irritating to respiratory system.

SKIN CONTACT:
Irritating to skin.

EYE CONTACT:
Irritating to eyes.

INGESTION:
May cause mucosal damage.

HUMAN HEALTH HAZARDS - CHRONIC:
Repeated or prolonged exposure may cause skin irritation and dermatitis.



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4. FIRST AID MEASURES

INHALATION: Remove to fresh air, rest, treat symptomatically. Obtain medical attention.

SKIN CONTACT: Remove contaminated clothing. Wash off affected area immediately with plenty of water. If skin irritation persists, obtain medical attention.

EYE CONTACT: 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.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA:
Water spray, foam, dry powder, carbon dioxide.

FIRE AND EXPLOSION HAZARD
May evolve oxides of nitrogen under fire conditions. May evolve COx 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. Ensure adequate ventilation. Take off immediately all contaminated clothing. Use personal protective equipment recommended in Section 8.

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:
Small spills: Soak up with inert absorbent material. Clean up promptly by scoop or vacuum.
Large spills: Dam up. Reclaim into recovery or salvage drums.



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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.

STORAGE CONDITIONS:

Protect from freezing. Keep at temperatures between 5-40 °C. Storage for more than one year is not recommended.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS

NATIONAL REGULATIONS GERMANY

2-Diethylaminoethanol: MAK 50 mg/m³ (10ppm)

NATIONAL REGULATIONS UK

2-Diethylaminoethanol: OES 10ppm (TWA) (skin)

NATIONAL REGULATIONS SWITZERLAND

2-Diethylaminoethanol: TWA 10ppm (50 mg/m³)

NATIONAL REGULATIONS FRANCE

2-Diethylaminoethanol: VME 10ppm (50 mg/m³)

NATIONAL REGULATIONS HOLLAND

2-Diethylaminoethanol: MAC TGG 10ppm (50 mg/m³)

NATIONAL REGULATIONS SWEDEN

2-Diethylaminoethanol: NGV 2 ppm, KTV 10 ppm

NATIONAL REGULATIONS FINLAND

2-Diethylaminoethanol: HTP 10 ppm (15 min)

NATIONAL REGULATIONS NORWAY

2-Diethylaminoethanol: TLV 10 ppm (50 mg/m³)

NATIONAL REGULATIONS DENMARK

2-Diethylaminoethanol: GV 2 ppm

NATIONAL REGULATIONS AUSTRIA

2-Diethylaminoethanol: MAK 10 ppm (50 mg/m³)

ENGINEERING MEASURES

Use general ventilation with local exhaust ventilation.

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.

HAND PROTECTION:

PVC gloves, Neoprene gloves, Nitrile gloves. Most glove materials are of low chemical resistance. Replace gloves regularly.

SKIN PROTECTION:

Standard protective clothing.

EYE PROTECTION:

Chemical splash goggles, face shield.

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.



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9. PHYSICAL AND CHEMICAL PROPERTIES

NOTE: These physical properties are typical values for this product

FORM: Liquid
 COLOUR: Yellow
 ODOUR: Slight
 VALUE UNIT TEST METHOD
 BOILING POINT: 96 °C ASTM D-86
 FLASH POINT: >100 °C PMCC
 VAPOUR PRESSURE (38 °C): 68 mmHg ASTM D-323
 RELATIVE DENSITY: 1.04 g/cm3 ASTM D-1298
 SOLUBILITY IN WATER: Complete
 pH (neat, 20°C): 8.8 - 9.2 ASTM E-70
 VISCOSITY (25 °C): 4 cps ASTM D-2983
 FREEZING POINT: - 4 °C ASTM D-1177

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

10. STABILITY AND REACTIVITY

STABILITY:
 Stable under ambient conditions.
 CONDITIONS TO AVOID:
 Freezing temperatures.
 MATERIALS TO AVOID:
 Do not mix with. 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:
 Dermal (rabbit) LD50 = > 2.0 g/kg
 Oral (rat) LD50 = > 5.0 g/kg
 PRIMARY (DRAIZE TEST) SKIN/EYE
 Primary skin irritation: 0.7 /8.0
 Primary eye irritation: 3.3 /110.0

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL EFFECTS:
 LC50/96H/Lepomis macrochirus (Bluegill Sunfish)= > 1000 mg/l
 LC50/96H/Pimephales promelus (Fathead Minnow)= > 1000 mg/l
 LC50/96H/Oncorhynchus Mykiss (Rainbow Trout)= > 1000 mg/l
 LC50/48H/Daphnia magna (Water Flea) = > 1000 mg/l



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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: Not regulated

15. REGULATORY INFORMATION

CLASSIFICATION:
HAZARD SYMBOL: Xi, IRRITANT



Xi, IRRITANT

Contains: 2-Diethylaminoethanol

RISK PHRASES:

R36/37/38 Irritating to eyes, respiratory system and skin.

SAFETY PHRASES:

S23 Do not breathe vapour. S24/25 Avoid contact with skin and eyes. S26 In case of contact with eyes, rinse

immediately with plenty of water and seek medical advice. S28 After contact with skin, wash immediately with

plenty of water. S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

NATIONAL REGULATIONS GERMANY

VbF-Klasse: None

WHG-WGK: 1 Classification according VwVwS v. 17.05.99, Anhang 4

TA-Luft: -

StörfallVO: /12.BImSchV.Liste d. Anh. II): -

Berufsgenossensch. Vorschriften: -

Hinweise zur Beschäftigungsbeschränkung: None

NATIONAL REGULATIONS UK

COSHH regulations apply. A precaution card is available and should be displayed wherever this product is used and stored (REF.XnXiR)

NATIONAL REGULATIONS SWITZERLAND

BAGT-Nr: 611500

Toxic class: frei

NATIONAL REGULATIONS FRANCE

2-Diethylaminoethanol: Tableau de Maladie N° 49



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16. OTHER INFORMATION

FOOD AND DRUG ADMINISTRATION (FDA) Federal Food, Drug and Cosmetic Act: Product complies with 21CFR173.310.

U.S. DEPARTMENT OF AGRICULTURE (USDA):
Authorized uses are under categories G5, G6.

Emergency Telephone Number +44 (0) 161 240 2100