



Material Safety Data Sheet

Accepta 2512

Date issued: 01-06-2004

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Product Name:	ACCEPTA 2512
Application:	Carbonylhydrazide based oxygen scavenger boiler water treatment
Company Identification:	Accepta Ltd. Statham House Old Trafford Manchester M32 0FP United Kingdom
Office telephone number:	+44 (0) 161 877 2334
Office fax number:	+44 (0) 870 135 6389
Emergency Telephone Number:	+44 (0) 161 877 2334

2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL DESCRIPTION:

HAZARDOUS INGREDIENTS:

CAS NO.	EINECS NO.	CHEMICAL NAME	WT %	SYMBOL	R-PHRASES
497-18-7	2078372	Carbonylhydrazide	10	Xn	22-38-43

3. HAZARD IDENTIFICATION

This product is classified as dangerous (European Directive 88/379/EEC, 1999/45/EC).

HUMAN HEALTH HAZARDS - ACUTE:

INHALATION:

May cause irritation of mucous membranes.

SKIN CONTACT:

May cause irritation with prolonged contact. May cause sensitization by skin contact.

EYE CONTACT:

May cause irritation with prolonged contact.

INGESTION:

There may be irritation to the gastro-intestinal tract with nausea and vomiting.

HUMAN HEALTH HAZARDS - CHRONIC:

May cause sensitization by skin contact.

ENVIRONMENTAL HAZARDS

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.



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4. FIRST AID MEASURES

INHALATION:

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

SKIN CONTACT:

Obtain medical attention immediately. Remove contaminated clothing. Wash off affected area immediately with plenty of water.

EYE CONTACT:

Obtain medical attention immediately. Immediately gently irrigate with clean water for at least 15 minutes.

Move eyeball and keep eyelids wide open and apart whilst irrigating

INGESTION:

Do not induce vomiting without medical advice. If conscious washout mouth and give one pint of water to drink. Obtain medical attention.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA:

This product would not be expected to burn unless all the water is boiled away. The remainders may be ignitable.

Use extinguishing media appropriate for surrounding fire.

FIRE AND EXPLOSION HAZARD

Oxides of nitrogen, Oxides of carbon.

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:

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. Ensure adequate ventilation. 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:

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. Assistance can be obtained from waste disposal companies.



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7. HANDLING AND STORAGE

HANDLING:
 Avoid contact with skin and eyes. Use with adequate ventilation.
 Avoid use of copper, aluminium, Zinc and their alloys, nickel, lead, brass, carbon steel, cast iron.

STORAGE CONDITIONS:
 Protect from freezing. Keep at temperatures above 4 °C. Keep container tightly closed in a cool, wellventilated place. Storage for more than one year is not recommended.

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

8. EXPOSURE CONTROL/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS None.
ENGINEERING MEASURES General ventilation is recommended.

RESPIRATORY PROTECTION:
 If significant mists, vapours or aerosols are generated an approved respirator is recommended. Wear a cartridge respirator, filter-type K.

HAND PROTECTION:
 Viton gloves, Nitrile gloves, PVC gloves. Most glove materials are of low chemical resistance. Replace gloves regularly.

SKIN PROTECTION:
 Standard protective clothing. Complete suit protecting against chemicals (if skin contact is likely).

EYE PROTECTION:
 Chemical splash goggles.

HYGIENE RECOMMENDATIONS:
 Keep an eye wash fountain available. Keep a safety shower available. Wash hands at breaks and at the 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: Colourless
ODOUR: None

VALUE UNIT TEST METHOD

FLASH POINT: None
VAPOUR PRESSURE (20 °C) 12 mmHg
RELATIVE DENSITY: 1.036 (20 °C)
SOLUBILITY IN WATER: Complete
pH (100 %) 7.5-8.5
FREEZING POINT: -2 °C

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



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10. STABILITY AND REACTIVITY

STABILITY:
 Stable under ambient conditions.
 Unstable: < 4 °C.
 CONDITIONS TO AVOID:
 Freezing temperatures.
 Low temperatures (< 4 °C): Unstable
 MATERIALS TO AVOID:
 Acids, Strong oxidizing agents, copper, aluminium, Zinc and their alloys, nickel, lead, brass, carbon steel, cast iron.
 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: 0.2 /8.0.
 Primary eye irritation: 0.3 /110.0.
 SENSITIZATION:
 May cause sensitization by skin contact.
 Carbohydrazide: The results of testing on guinea pigs showed this material to be a sensitiser.
 CHRONIC TOXICITY DATA:
 Carbohydrazide: Ames test: Negative

12. ECOLOGICAL INFORMATION

PERSISTENCY AND DEGRADATION:
 Carbohydrazide: The product is not readily biodegradable.
 ECOTOXICOLOGICAL EFFECTS:
 LC₅₀/96H/Lepomis macrochirus (Bluegill Sunfish)= 190 mg/l.
 LC₅₀/96H/Pimephales promelus (Fathead Minnow)= 400 mg/l.
 LC₅₀/96H/Oncorhynchus Mykiss (Rainbow Trout)= 360 mg/l.
 LC₅₀/48H/Daphnia magna (Water Flea) : 96 mg/l.
 EC50/72H/Scenesdesmus subspicatus: 9.5 mg/l
 EC50/Pseudomonas Putida = 375 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.

14. TRANSPORT INFORMATION

Class: Not regulated

15. REGULATORY INFORMATION

CLASSIFICATION:
HAZARD SYMBOL: IRRITANT



Xi, IRRITANT

Xi, IRRITANT

Contains: Carbonylhydrazide

RISK PHRASES:

R43 May cause sensitization by skin contact. R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SAFETY PHRASES:

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. S61 Avoid release to the environment. Refer to special instructions/Safety Data Sheets.

NATIONAL REGULATIONS GERMANY

VbF-Klasse: None

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

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

TA-Luft: -

Berufsgenossensch. Vorschriften: -

Hinweise zur Beschäftigungsbeschränkung: -

NATIONAL REGULATIONS UK

COSHH regulations apply.



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16. OTHER INFORMATION

Emergency Telephone Number +44 (0) 161 240 2100