



Material Safety Data Sheet

Accepta 2108

Date issued: 01-01-2003

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Product Name:	ACCEPTA 2108
Application:	Cooling Water Scale & Corrosion Inhibitor
Company Identification:	Accepta Ltd. PO Box 339 Macclesfield Cheshire SK10 2XU United Kingdom
Office telephone number:	+44 (0) 1625 267581
Office fax number:	+44 (0) 870 135 6389
Emergency Telephone Number:	+44 (0) 1625 267581

2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL DESCRIPTION:
Water, Phosphonate, Sodium molybdate, Substituted triazole

HAZARDOUS INGREDIENTS:

CAS NO.	EINECS NO.	CHEMICAL NAME	WT %	SYMBOL	R-PHRASES
1310-73-2	2151855	Sodium hydroxide	0.5 - 1.5	C	35
7631-95-0	2315517	Sodium molybdate	5 - 10	None	None

3. HAZARD IDENTIFICATION

This product is classified as dangerous (European Directive 1999/45/EC).

HUMAN HEALTH HAZARDS - ACUTE:

INHALATION:

May cause irritation of mucous membranes.

SKIN CONTACT:

Irritating to skin.

EYE CONTACT:

Irritating to eyes.

INGESTION:

May cause nausea and vomiting.

PHYSICAL AND CHEMICAL HAZARDS:

Gives off hydrogen by reaction with metals.



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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 glass of water to drink. Obtain medical attention.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA:
Use extinguishing media appropriate for surrounding fire.

FIRE AND EXPLOSION HAZARD
Oxides of carbon, Oxides of nitrogen.
Gives off hydrogen by reaction with metals (aluminium).

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.
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:
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.
Wash site of spillage thoroughly with water.
Please refer to Section 13 for disposal considerations.



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7. HANDLING AND STORAGE

HANDLING:

Do not breathe vapour. Avoid contact with skin and eyes. If clothing is contaminated, remove clothing and thoroughly wash the affected area. Launder contaminated clothing before reuse. Use with adequate ventilation.

Avoid generating aerosols and mists. Use personal protective equipment recommended in Section 8.

STORAGE CONDITIONS:

Protect from freezing. Keep container tightly closed. Store separately from acids.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS

NATIONAL REGULATIONS GERMANY Sodium hydroxide: 2 mg/m³, TRGS 900

NATIONAL REGULATIONS UK Sodium molybdate: OES 5 mg/m³ (as Mo) (TWA), OES 10 mg/m³ (as Mo) (STEL). Sodium hydroxide: OES 2 mg/m³ (STEL)

NATIONAL REGULATIONS FRANCE Sodium hydroxide: VME 2 mg/m³

NATIONAL REGULATIONS SWEDEN Sodium hydroxide: TGV 2 mg/m³

Molybdenum derivatives (soluble): NGV 5 mg/m³

NATIONAL REGULATIONS FINLAND Sodium hydroxide: HTP 2 mg/m³

Molybdenum derivatives (soluble): HTP 5 mg/m³

NATIONAL REGULATIONS NORWAY Sodium hydroxide: TLV 2 mg/m³ (15 min.)

Molybdenum derivatives (soluble): TLV 5 mg/m³

NATIONAL REGULATIONS DENMARK Sodium hydroxide: GV 2 mg/m³ (15 min)

Molybdenum derivatives (soluble): GV 5 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 P3.

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

SKIN PROTECTION: Standard protective clothing.

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: Clear - Yellow

ODOUR: Slight

VALUE UNIT TEST METHOD

FLASH POINT: None:

RELATIVE DENSITY: 1.16 (25 °C) ASTM D-1298

SOLUBILITY IN WATER: Complete

pH 13.0 ASTM E-70

VISCOSITY 4 cps ASTM D-2983

FREEZING POINT: < 0 °C



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10. STABILITY AND REACTIVITY

STABILITY:

Stable under ambient conditions.

CONDITIONS TO AVOID:

Freezing temperatures.

MATERIALS TO AVOID:

Strong acids, metals.

HAZARDOUS DECOMPOSITION PRODUCTS:

Oxides of carbon, Oxides of nitrogen (under fire conditions).

Gives off hydrogen by reaction with metals (aluminium).

11. TOXICOLOGICAL INFORMATION

Hazard classification is based on 1999/45/EC, 67/548/EEC and available ingredient toxicity data.
Please refer to section 3 for hazards identification.

12. ECOLOGICAL INFORMATION

PERSISTENCY AND DEGRADATION:

Biological Oxygen Demand (BOD 5): 17.3 g/l

Chemical Oxygen Demand (COD): 43.0 g/l

TOC: 18.0 g/l

ECOTOXICOLOGICAL EFFECTS:

LC50/96H/Oncorhynchus Mykiss (Rainbow Trout)= >1000 mg/l

EC50/48H/Daphnia magna (Water Flea) = >1000 mg/l

EC₅₀/48H/Ceriodaphnia dubia = > 1000 mg/l

ADDITIONAL ECOLOGICAL DATA:

AOX information: Product contains no organic halogens.



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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.

NATIONAL REGULATIONS AUSTRIA

14. TRANSPORT INFORMATION

Class: 8 Packing group: III
 UN 3266
 Proper shipping name: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Sodium hydroxide)
 ADR/RID, H.I.n.: 80

15. REGULATORY INFORMATION

CLASSIFICATION:
 HAZARD SYMBOL: Xi, IRRITANT

X

Xi, IRRITANT
 Contains: Sodium hydroxide
 RISK PHRASES: R36/38 Irritating to eyes and skin.
 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.
 NATIONAL REGULATIONS GERMANY
 VbF-Klasse: None
 WHG-WGK: 1 Classification (VCI-list)
 TA-Luft: -
 Berufsgenossensch. Vorschriften: Take notice of UVV-Chemie
 Hinweise zur Beschäftigungsbeschränkung: Observe § 15 of regulations for hazardous substances
 NATIONAL REGULATIONS UK COSHH regulations apply.



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16. OTHER INFORMATION

Emergency Telephone Number +44 (0) 1625 267581

RELEVANT RISK PHRASES:
R35 Causes severe burns.