



Material Safety Data Sheet

Accepta 2109

Date issued: 01-01-2003

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Product Name: ACCEPTA 2109
Application: Closed circuit corrosion inhibitor

Company Identification: Accepta Ltd.
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2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL DESCRIPTION:

Preparation containing: Water, Molybdenum derivatives, Inorganic salt(s), Polymer, Tetrapotassium pyrophosphate.

HAZARDOUS INGREDIENTS:

CAS NO.	EINECS NO.	CHEMICAL NAME	WT %	SYMBOL	R-PHRASES
1310-73-2	2151855	Sodium hydroxide	0.5 - 2	C	35
7631-95-0	2315517	Sodium molybdate	1 - 5	None	None
7320-34-5	2307857	Tetrapotassium pyrophosphate	10 - 20	Xi	36

3. HAZARD IDENTIFICATION

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

HUMAN HEALTH HAZARDS - ACUTE:

INHALATION:

Can cause mild irritation.

SKIN CONTACT:

Irritating to skin.

EYE CONTACT:

Irritating to eyes.

INGESTION:

Can cause severe irritation.



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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:

Obtain medical attention immediately. If conscious washout mouth and give one glass of water to drink.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA:

Water, dry powder, carbon dioxide, foam

FIRE AND EXPLOSION HAZARD

Oxides of phosphorus, 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:

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: Sweep up and shovel. Reclaim into recovery or salvage drums.

Clean contaminated surfaces with water or aqueous cleaning agents.

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

Freezing will affect the physical condition but will not change the material. Thaw and mix before using.

STORAGE CONDITIONS:

Keep in dry, cool place.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS

NATIONAL REGULATIONS GERMANY Sodium hydroxide: MAK 2 mg/m³

Molybdenum derivatives: (MAK) 5 mg/m³

NATIONAL REGULATIONS UK Sodium hydroxide: OES 2 mg/m³ (STEL)

Molybdenum derivatives: OES 5 mg/m³ (as Mo) (TWA), OES 10 mg/m³ (as Mo) (STEL).

NATIONAL REGULATIONS SWITZERLAND Sodium hydroxide: TWA 2 mg/m³, STEL 4 mg/m³

Molybdenum derivatives TWA 5 mg/m³

NATIONAL REGULATIONS FRANCE Sodium hydroxide: VME 2 mg/m³

Molybdenum derivatives VME 5 mg/m³, VLE 10 mg/m³

NATIONAL REGULATIONS HOLLAND Sodium hydroxide: MAC 2 mg/m³ C

Molybdenum derivatives: MAC TGG 5 mg/m³ (als Mo)

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

Molybdenum derivatives soluble: TLV 5 mg/m³ (Mo)

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

Molybdenum derivatives soluble: GV 5 mg/m³ (Mo)

NATIONAL REGULATIONS AUSTRIA Sodium hydroxide: MAK 2 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:

PVC gloves, Nitrile 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. If clothing is contaminated, remove clothing and thoroughly wash the affected area. Launder contaminated clothing before reuse Wash hands during breaks and at end of the shift.

9. PHYSICAL AND CHEMICAL PROPERTIES

NOTE: These physical properties are typical values for this product

FORM: Liquid

COLOUR: Yellow

ODOUR: Aromatic

VALUE UNIT TEST METHOD

BOILING POINT: > 100 °C

MELTING POINT: - 4 °C

FLASH POINT: None

RELATIVE DENSITY: 1.21 g/cm³

SOLUBILITY IN WATER: Complete

pH 13.6 (20 °C

VISCOSITY (20 °C) 8 cps mPa.s

FREEZING POINT: - 4 °C



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10. STABILITY AND REACTIVITY

STABILITY:

Stable under ambient conditions. No degradation if used as prescribed.

CONDITIONS TO AVOID:

Freezing temperatures.

MATERIALS TO AVOID:

Acids.

HAZARDOUS DECOMPOSITION PRODUCTS:

Oxides of phosphorus, Oxides of carbon (under fire conditions)

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.

ACUTE TOXICITY DATA:

ACUTE LETHALITY VALUES:

PRIMARY (DRAIZE TEST) SKIN/EYE:

12. ECOLOGICAL INFORMATION

PERSISTENCY AND DEGRADATION:

Chemical Oxygen Demand (COD) = 30 mg/l (1000 ppm)

Biochemical Oxygen Demand (BOD28) = 16 mg/l (1000 ppm)

Persistency/Resistency: Readily eliminated.

MOBILITY AND BIOACCUMULATION POTENTIAL:

No bioaccumulation

ECOTOXICOLOGICAL EFFECTS:

Fish Toxicity *Leuciscus idus* (100 ppm product): None

ADDITIONAL ECOLOGICAL DATA:

Behaviour in municipal sewage treatment plants: Discharge in minor quantity into adapted biological units of sewage treatment plants is not expected to affect the efficiency of the activated sludge process

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

NATIONAL REGULATIONS AUSTRIA Waste Code: 52404

14. TRANSPORT INFORMATION

Class: 8 Packing group: III UN 3266
 Proper shipping name: CORROSIVE LIQUID, BASIC, INORGANIC,
 N.O.S. (Sodium hydroxide, Tetrapotassium
 pyrophosphate)
 ADR/RID, H.I.n.: 80
 ICAO/IATA Packing instructions: 818/820

15. REGULATORY INFORMATION

CLASSIFICATION:
 HAZARD SYMBOL: IRRITANT



Xi IRRITANT

Contains: Sodium hydroxide, Tetrapotassium pyrophosphate, Sodium molybdate

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 according VwVwS v. 17.05.99, Anhang 4

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

TA-Luft: -

Berufsgenossensch. Vorschriften: Take notice of UVV-Chemie

Hinweise zur Beschäftigungsbeschränkung: -

Information regarding heavy metal content (as per 76/464/EC): Complies with § 7a WHG Observe indirect discharge regulations.

NATIONAL REGULATIONS UK

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



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16. OTHER INFORMATION

R35 Causes severe burns. R36 Irritating to eyes.

Emergency Telephone Number +44 (0) 1625 267581