



Material Safety Data Sheet

Accepta 2080

Date issued: 01-06-2004

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Product Name: ACCEPTA 2080
 Application: Low Nitrite/Molybdate for closed circuits

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

CHEMICAL DESCRIPTION:

Sodium nitrite, Potassium molybdate, 5-chloro-2-methyl -4-isothiazolin-3-one, 2-Methyl-4-isothiazolin-3-one, Polymer, Water.

HAZARDOUS INGREDIENTS:

CAS NO.	EINECS NO.	CHEMICAL NAME	WT %	SYMBOL	R-PHRASES
13446-49-6	2365992	Potassium molybdate	5 - 10	None	None
7632-00-0	2315559	Sodium nitrite	25 - 40	O,T,N	8,25,50
26172-55-4	2475007	5-chloro-2-methyl - 4-isothiazolin-3- one	0.05-0.09	T,C, N	23/24/25,34,43,50
2682-20-4	2202396	2-Methyl-4-isothiazolin- 3-one	0.02-0.04		

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: Irritating to skin. May cause sensitization by skin contact.

EYE CONTACT: Irritating to eyes.

INGESTION: Toxic if swallowed. May cause mucosal damage. Components of the product create formation of methaemoglobin. Pregnant women are particularly sensitive to methemoglobinemia.

HUMAN HEALTH HAZARDS - CHRONIC:

Repeated ingestion of small amounts of sodium nitrite causes drops in blood pressure, rapid pulse, headaches and visual disturbances. It may also react with organic amines in the body to form carcinogenic nitrosamines. May cause sensitization by skin contact.

ENVIRONMENTAL HAZARDS

Very toxic to aquatic organisms.

PHYSICAL AND CHEMICAL HAZARDS:

Do not mix with: Acids. If product is allowed to dry, the sodium nitrite is an oxidising agent and can initiate the combustion of other materials



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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. Rinse mouth immediately and repeatedly with water. **Do not induce vomiting without medical advice .**

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA:

Water spray, Foam, Dry powder, Carbon dioxide. Water mist may be used to cool closed containers. Evacuate personnel to safe areas.

UNSUITABLE EXTINGUISHING MEDIA:

Do not use water jets.

FIRE AND EXPLOSION HAZARD

Oxides of nitrogen. May evolve toxic gases or fumes under fire conditions. If product is allowed to dry, the sodium nitrite is an oxidising agent and can initiate the combustion of other materials.

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. Take off immediately all contaminated clothing. Use personal protective equipment recommended in Section 8.

ENVIRONMENTAL PRECAUTIONS:

Dispose of this material and its container to hazardous or special waste collection point. Do not allow material to contaminate ground water system.

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.

Do not use cotton waste, sawdust or other combustible substances as absorbent materials, these may ignite when dried out.

Please refer to Section 13 for disposal considerations.



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7. HANDLING AND STORAGE

HANDLING:

Do not breathe the vapour. Avoid contact with skin and eyes. Use with adequate ventilation. Avoid generating aerosols and mists. Do not mix with any other chemical. Use personal protective equipment recommended in Section 8.

STORAGE CONDITIONS:

Keep away from combustible material. Store away from: Acids, Organic materials and reducing agents.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS

5-chloro-2-methyl-4-isothiazolin-3-one: Manufacturers Recommendation 0.076 mg/m³ (TWA), 0.23 mg/m³ (STEL)

2-Methyl-4-isothiazolin-3-one Manufacturers Recommendation 1.5 mg/m³ (TWA), 4.5 mg/m³ (STEL)

NATIONAL REGULATIONS GERMANY

Molybdenum derivatives, soluble (Mo): 5 mg/m³, MAK / TRGS 900, E

NATIONAL REGULATIONS UK

Molybdenum derivatives: OES soluble 5 mg/m³ TWA, 10 mg/m³ STEL

NATIONAL REGULATIONS FRANCE

Potassium molybdate: VLE 10 mg/m³

Potassium molybdate: VME 5 mg/m³

ENGINEERING MEASURES

Use a closed dosing system. 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, filter-type AE/P.

HAND PROTECTION: PVC gloves, Viton 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. If clothing is contaminated, remove clothing and thoroughly wash the affected area. Launder contaminated clothing before reuse. Keep a safety shower available. Wash hands at breaks and at the end of the shift.

9. PHYSICAL AND CHEMICAL PROPERTIES

NOTE: These physical properties are typical values for this product

FORM: Liquid

COLOUR: Yellow

ODOUR: Slight

BOILING POINT: > 100 °C

FLASH POINT: NA

RELATIVE DENSITY: 1.26 (20 °C) g/cm³

SOLUBILITY IN WATER: Complete

pH 7.2

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



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10. STABILITY AND REACTIVITY

STABILITY:

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

CONDITIONS TO AVOID:

MATERIALS TO AVOID:

Acids, Organic materials and reducing agents, Combustible materials

HAZARDOUS DECOMPOSITION PRODUCTS:

Oxides of nitrogen (under acidic conditions) (under fire conditions). May evolve toxic gases or fumes under fire conditions.

11. TOXICOLOGICAL INFORMATION

Please refer to section 3 for hazards identification.

Hazard classification is based on 88/379/EEC, 67/548/EEC and available ingredient toxicity data.

ACUTE TOXICITY DATA: The following results are for the hazardous ingredients (Sodium nitrite)

ACUTE LETHALITY VALUES:

Oral (rat) LD50 = 85 mg/kg

SENSITIZATION:

May cause sensitization by skin contact.

CHRONIC TOXICITY DATA:

Repeated ingestion of small amounts of sodium nitrite causes drops in blood pressure, rapid pulse, headaches and visual disturbances. It may also react with organic amines in the body to form carcinogenic nitrosamines.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL EFFECTS: The following results are for the hazardous ingredients (Sodium nitrite)

LC50/24H/Daphnia magna (Water Flea) = 215 mg/l

LC50/96H/Oncorhynchus Mykiss (Rainbow Trout)= 0.2 mg/l

Algae: EC0 = 350 mg/l

Bacteria:: Pseudomonas Putida EC0 = 123 mg/l

ADDITIONAL ECOLOGICAL DATA:

Very toxic to aquatic organisms.



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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. Ensure compliance with EC, national and local regulations.

NATIONAL REGULATIONS UK

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

14. TRANSPORT INFORMATION

Class: 6.1 Packing group: III

UN No: 3287

Proper shipping name: TOXIC LIQUID, INORGANIC N.O.S Contains:

Sodium nitrite

ADR/RID, H.I.n.: 60

EmS-Nr.: 6.1-02

15. REGULATORY INFORMATION

CLASSIFICATION:

HAZARD SYMBOL: TOXIC, DANGEROUS FOR THE ENVIRONMENT



T, TOXIC N, DANGEROUS FOR THE ENVIRONMENT

Contains: Sodium nitrite, 5-chloro-2-methyl -4-isothiazolin-3-one, 2-Methyl-4-isothiazolin-3-one

RISK PHRASES:

R25 Toxic if swallowed. R36/38 Irritating to eyes and skin. R43 May cause sensitization by skin contact. R50 Very toxic to aquatic organisms.

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. S36/37/39 Wear suitable protective clothing, gloves and eye/face protection. S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

SPILLAGE Do not clean up spills with sawdust, cotton waste or other combustible absorbent materials.

NATIONAL REGULATIONS GERMANY

VbF-Klasse: None

WHG-WGK: 2 Classification according VwVwS v. 17.05.99, Anhang 4

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. A precaution card is available and should be displayed wherever this product is used and stored (Ref. TXiOX).



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16. OTHER INFORMATION

Emergency Telephone Number +44 (0) 161 240 2100