



**Material Safety Data Sheet**

**Accepta 2083**

Date issued: 01-06-2004

**1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY**

Product Name:	ACCEPTA 2083
Application:	Cooling 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, Sodium nitrite, Nitrate, Borate, Silicate.

HAZARDOUS INGREDIENTS:

CAS NO.	EINECS NO.	CHEMICAL NAME	WT %	SYMBOL	R-PHRASES
7632-00-0	2315559	Sodium nitrite	4-6	O,T,N	8,25,50
6834-92-0	2299129	Disodium metasilicate	< 5	C	34,37

**3. HAZARD IDENTIFICATION**

**HUMAN HEALTH HAZARDS - ACUTE:**

**INHALATION:**  
May cause irritation of mucous membranes.

**SKIN CONTACT:**  
Can cause moderate irritation.

**EYE CONTACT:**  
Can cause moderate irritation.

**INGESTION:**  
Harmful if swallowed. There may be irritation to the gastro-intestinal tract with nausea and vomiting.  
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.

**ENVIRONMENTAL HAZARDS**  
Nitrite is toxic to fish.

**PHYSICAL AND CHEMICAL HAZARDS:**  
Contact with acids liberates toxic gas.



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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:**  
In case of fire, use Water spray, foam, dry powder, carbon dioxide. Water mist may be used to cool closed containers.

**UNSUITABLE EXTINGUISHING MEDIA:**  
Do not use water jets.

**FIRE AND EXPLOSION HAZARD**  
May evolve oxides of nitrogen 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. After contact with skin, wash immediately with plenty of water. 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.



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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. Store separately from acids.

**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, filter-type A.

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

**SKIN PROTECTION:**  
Apron and boots.

**EYE PROTECTION:**  
Chemical splash goggles.

**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.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**NOTE:** These physical properties are typical values for this product

**FORM:** Liquid  
**COLOUR:** Dark red  
**ODOUR:** Slight

**VALUE UNIT TEST METHOD**  
**BOILING POINT:** 100 °C ASTM D-86  
**FLASH POINT:** NA  
**VAPOUR PRESSURE** same as water.  
**RELATIVE DENSITY:** 1.19 g/cm<sup>3</sup> ASTM D-1298  
**SOLUBILITY IN WATER:** Complete  
**pH (neat, 20°C):** 11.7 ASTM E-70  
**VISCOSITY (20 °C):** 5 cps ASTM D-2983  
**FREEZING POINT:** -2 °C ASTM D-1177

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:**  
Freezing temperatures.

**MATERIALS TO AVOID:**  
Do not mix with Acids, Oxidizing agents, Hypochlorites and chlorites.

**HAZARDOUS DECOMPOSITION PRODUCTS:**  
Oxides of nitrogen, Oxides of sulphur, Oxides of carbon (under fire conditions).

**11. TOXICOLOGICAL INFORMATION**

Hazard classification is based on 88/379/EEC, 67/548/EEC and available ingredient toxicity data. Please refer to section 3 for hazards identification.

**ACUTE TOXICITY DATA:** The following results are for a similar product.

**ACUTE LETHALITY VALUES:**  
Oral (rat) LD50 = > 2000 mg/kg (OECD 423)  
**PRIMARY (DRAIZE TEST) SKIN/EYE**  
skin: 0.5/8.0  
eyes: 16.7/110

**SENSITIZATION:**  
No data available.

**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**

**PERSISTENCY AND DEGRADATION:**  
The following results are for a similar product:  
Chemical Oxygen Demand (COD): 67000 mg/l

**ECOTOXICOLOGICAL EFFECTS:**  
LC50/96H/Lepomis macrochirus (Bluegill Sunfish)= >1000 mg/l  
LC50/96H/Oncorhynchus Mykiss (Rainbow Trout)= 200 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.  
 NATIONAL REGULATIONS AUSTRIA  
 Waste Code: 59305

**14. TRANSPORT INFORMATION**

Class: Not regulated

**15. REGULATORY INFORMATION**

CLASSIFICATION:  
 HAZARD SYMBOL: HARMFUL



Xn, HARMFUL  
 Contains: Sodium nitrite  
 RISK PHRASES:  
 R22 Harmful if swallowed.  
 SAFETY PHRASES:  
 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. S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
 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.XnignXi).  
 NATIONAL REGULATIONS NORWAY  
 Registration number 002977



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**16. OTHER INFORMATION**

Emergency Telephone Number +44 (0) 161 240 2100