



Material Safety Data Sheet

Accepta 2078

Date issued: 01-06-2004

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Product Name:	ACCEPTA 2078
Application:	Activated stabilised bromine based biocide
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, Alkaline liquid bromine antimicrobial, Sodium hydroxide, Inorganic salt(s).

HAZARDOUS INGREDIENTS:

CAS NO.	EINECS NO.	CHEMICAL NAME	WT %	SYMBOL	R-PHRASES
1310-73-2	2151855	Sodium hydroxide	1 - 5	C	35
-	-	Alkaline liquid bromine antimicrobial	10 - 25	C	31, 34

3. HAZARD IDENTIFICATION

HUMAN HEALTH HAZARDS - ACUTE:

INHALATION:

Corrosive to respiratory system.

SKIN CONTACT:

Causes burns.

EYE CONTACT:

Causes burns. May cause permanent damage to eyes.

INGESTION:

Corrosive, causes burns to gastro-intestinal tract. Nausea, vomiting and stomach pain may occur. In severe cases blood may be vomited.

ENVIRONMENTAL HAZARDS

Harmful to aquatic organisms.

PHYSICAL AND CHEMICAL HAZARDS:

Contact with acids liberates toxic gas. Do not mix with any sodium hypochlorite or bleach product.

Resulting mixture will result in a violent exothermic reaction releasing large amounts of nitrogen gas and liquid sulphuric acid. Do not mix with Organic materials and reducing agents.



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4. FIRST AID MEASURES

INHALATION:

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

SKIN CONTACT:

Speed is essential. Remove contaminated clothing. Wash off affected area immediately with plenty of water. If severe burns have occurred and areas of skin are destroyed, cover the burned area with clean dry non fluffy material and obtain medical attention.

EYE CONTACT:

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

ADDITIONAL INFORMATION

Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsions may be needed.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA:

Not expected to burn. Use extinguishing media appropriate for surrounding fire.

FIRE AND EXPLOSION HAZARD

May evolve toxic gases or fumes under fire conditions, Oxides of nitrogen, N₂, Oxides of sulphur, Bromine. Chlorine, Sulphuric acid. Gives off hydrogen by reaction with metals.

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:

Ensure adequate ventilation. 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. 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. 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:
 Avoid contact with skin and eyes. Ensure adequate ventilation. Avoid generating aerosols and mists. Do not mix with any sodium hypochlorite or bleach product. Resulting mixture will result in a violent exothermic reaction releasing large amounts of nitrogen gas and liquid sulphuric acid. Avoid use of metals: Gives off hydrogen by reaction with metals.

STORAGE CONDITIONS:
 Protect from freezing. Keep container tightly closed in a cool, well-ventilated place. Store away from direct sunlight. Store separately from acids. Containers require venting bungs to avoid over pressure.

CONSTRUCTION MATERIAL COMPATIBILITY. Compatible with:
 Equipment for storage and application should be constructed from: PE, PP or teflon.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS
 NATIONAL REGULATIONS GERMANY
 Sodium hydroxide MAK 2 mg/m³
 NATIONAL REGULATIONS UK
 Sodium hydroxide: OES 2 mg/m³ (STEL)
 NATIONAL REGULATIONS SWITZERLAND
 Sodium hydroxide TWA 2 mg/m³ / STEL 4 mg/m³
 NATIONAL REGULATIONS FRANCE
 Sodium hydroxide VME 2 mg/m³
 NATIONAL REGULATIONS HOLLAND
 Sodium hydroxide MAC 2 mg/m³ C
 NATIONAL REGULATIONS SWEDEN
 Sodium hydroxide TGV 2 mg/m³
 NATIONAL REGULATIONS FINLAND
 Sodium hydroxide: HTP 2 mg/m³
 NATIONAL REGULATIONS NORWAY
 Sodium hydroxide: TLV 2 mg/m³ (ceiling)
 NATIONAL REGULATIONS DENMARK
 Sodium hydroxide: GV 2 mg/m³ (ceiling)
ENGINEERING MEASURES Local exhaust ventilation if necessary to control airborne levels below the exposure guidelines.
RESPIRATORY PROTECTION: If significant mists, vapours or aerosols are generated an approved respirator is recommended, filter-type P/A.
HAND PROTECTION: Nitrile gloves, Viton gloves. Most glove materials are of low chemical resistance. Replace gloves regularly
SKIN PROTECTION: Apron and boots. A full slicker suit is recommended if gross exposure is possible.
EYE PROTECTION: Chemical splash goggles, face shield.
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: Pungent
VALUE UNIT TEST METHOD
FLASH POINT: NA
RELATIVE DENSITY: 1.33
 (appr. 25 °C)
ASTM D-1298
SOLUBILITY IN WATER: Complete
 pH 13.2 ASTM E-70
VISCOSITY (BROOKFIELD, 20 °C) 7 mPas ASTM D-2983
FREEZING POINT: -9 °C



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10. STABILITY AND REACTIVITY

STABILITY:

Room temperature degradation products are small amounts of nitrogen, sodium bromide, and sodium sulfate. Combustion may include nitrogen and sulfuric acid. Not expected to burn.

CONDITIONS TO AVOID:

Freezing temperatures. Heat and light which can accelerate decomposition.

MATERIALS TO AVOID:

Contact with acids liberates toxic gas. Do not mix with any sodium hypochlorite or bleach product. Resulting mixture will result in a violent exothermic reaction releasing large amounts of nitrogen gas and liquid sulphuric acid. Do not mix with Organic materials and reducing agents. Avoid use of metals: Gives off hydrogen by reaction with metals.

HAZARDOUS DECOMPOSITION PRODUCTS:

May evolve toxic gases or fumes under fire conditions.
Oxides of nitrogen. Oxides of sulphur, Chlorine, N₂, Bromine, Sulphuric acid.

11. TOXICOLOGICAL INFORMATION

Please refer to section 3 for hazards identification.

ACUTE TOXICITY DATA:

ACUTE LETHALITY VALUES:

The following results are for a similar product:

Oral (rat) LD₅₀ = >5000 mg/kg.

PRIMARY (DRAIZE TEST) SKIN/EYE

The following results are for a similar product:

Primary skin irritation 7.9 /8.0.

12. ECOLOGICAL INFORMATION

PERSISTENCY AND DEGRADATION:

Chemical Oxygen Demand (COD): 150 mg/l (1 % solution, NEN6633)

Biodegradability: Not applicable (Inorganic compound(s))

MOBILITY AND BIOACCUMULATION POTENTIAL:

The product is not expected to bioaccumulate.

ECOTOXICOLOGICAL EFFECTS:

LC₅₀/96H/Oncorhynchus Mykiss (Rainbow Trout)= 4.5 mg/l

LC₅₀/96H/Cyprinodon variegatus (Sheepshead Minnow)= 17 mg/l

LC₅₀/48H/Daphnia magna (Water Flea) : 4.2 mg/l

LC₅₀/96H/Mysidopsis bahia (Mysid Shrimp)= 27 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
 Waste Code: 52725

14. TRANSPORT INFORMATION

Class: 8 Packing Group: II Sea Transport: 8
 UN No: 3266
 Proper shipping name: CORROSIVE LIQUID, BASIC, INORGANIC,
 N.O.S. Contains: Sodium hydroxide, Alkaline liquid bromine antimicrobial
 ADR/RID, H.I.n.: 80
 EmS-Nr.: 8-15
 Tariffcode: 38084020-90

15. REGULATORY INFORMATION

CLASSIFICATION:
 HAZARD SYMBOL: CORROSIVE

C, CORROSIVE
 Contains: Sodium hydroxide, Alkaline liquid bromine antimicrobial
 RISK PHRASES: R34 Causes burns. R31 Contact with acids liberates toxic gas.
 SAFETY PHRASES:
 S28 After contact with skin, wash immediately with plenty of water. 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). S50 Do not mix with any other chemical.
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.C)
NATIONAL REGULATIONS SPAIN Registration number: **00-100-02075**
NATIONAL REGULATIONS SWITZERLAND BAGT-Nr: 681063 Toxic class: 3
NATIONAL REGULATIONS AUSTRIA VbF-Klasse: None.



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16. OTHER INFORMATION

Emergency Telephone Number +44 (0) 161 240 2100

Relevant Risk Phrases:

R35 Causes severe burns. R34 Causes burns. R31 Contact with acids liberates toxic gas.

U.S. DEPARTMENT OF AGRICULTURE (USDA):

Authorized use is under category G5 and G7.