



**Material Safety Data Sheet**

**Accepta 2106**

Date issued: 01-01-2004

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

Product Name:	ACCEPTA 2106
Application:	Sodium Bromide, Bromine Precursor
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:  
Preparation containing: Sodium Bromide in aqueous solution

HAZARDOUS INGREDIENTS:

CAS NO.	EINECS NO.	CHEMICAL NAME	WT %	SYMBOL	R-PHRASES
7647-15-6	2315999	Sodium Bromide	35-45		

**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:**  
Can cause mild irritation.

**EYE CONTACT:**  
Irritating to eyes.

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

**ENVIRONMENTAL HAZARDS**  
The hypobromous acid generated from this product is very toxic to aquatic organisms



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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. 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 immediately.

**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:**

Water, dry powder, carbon dioxide, foam.

**FIRE AND EXPLOSION HAZARD**

May evolve hydrogen bromide and bromine 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:**

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:**  
 Avoid contact with skin and eyes. Use with adequate ventilation. Use personal protective equipment recommended in Section 8.

**STORAGE CONDITIONS:**  
 Protect from freezing. Keep container tightly closed in a cool, well-ventilated place. Storage for more than one year is not recommended.

**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 B.

**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:** Colourless - Light yellow

**ODOUR:** None

**VALUE UNIT TEST METHOD**

**BOILING POINT:** >100 °C

**FLASH POINT:** None

**VAPOUR PRESSURE** same as water

**RELATIVE DENSITY:** 1.40

**SOLUBILITY IN WATER:** Complete

**pH** 6 - 8

**VISCOSITY (20 °C):** 5 cps mPa.s

**FREEZING POINT:** -10 °C

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



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### 10. STABILITY AND REACTIVITY

**STABILITY:**

Stable under ambient conditions

**CONDITIONS TO AVOID:**

Freezing temperatures

**MATERIALS TO AVOID:**

Do not mix with acids and Oxidizing agents such as Sodium hypochlorite under conditions other than controlled feed to the system.

**HAZARDOUS DECOMPOSITION PRODUCTS:**

Hydrogen bromide, bromine, (under fire conditions).

### 11. TOXICOLOGICAL INFORMATION

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 = >5.0 g/kg

Dermal (rabbit) LD50 = >2.0 g/kg

**PRIMARY (DRAIZE TEST) SKIN/EYE**

Primary skin irritation: 0.0 /8.0

Primary eye irritation: 16.0 /110.0

### 12. ECOLOGICAL INFORMATION

**PERSISTENCY AND DEGRADATION:**

Persistency/Resistency: The product does not contain any organic components

Biological degradation: The product does not contain any organic components

**MOBILITY AND BIOACCUMULATION POTENTIAL:**

No bioaccumulation.

**ECOTOXICOLOGICAL EFFECTS:**

The following results are for the product:

Fish: LC50/96H/Lepomis macrochirus (Bluegill Sunfish)= >1000 mg/l

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

Daphnia magna: LC50/48H/Daphnia magna (Water Flea) : 9.3 g/l (OECD-202)

Bacteria: EC50 = 5.75 g/l

The following results are for the hypobromous acid (as Br<sub>2</sub>) generated from sodium bromide:

LC50/96H/Lepomis macrochirus (Bluegill Sunfish)= 0.52 mg/l

LC50/96H/Pimephales promelus (Fathead Minnow)= 0.097 mg/l

LC50/96H/Oncorhynchus Mykiss (Rainbow Trout)= 0.23 mg/l

LC50/96H/Cyprinodon variegatus (Sheepshead Minnow)= 0.19 mg/l

LC50/48H/Daphnia magna (Water Flea) : 0.038 mg/l

LC50/48H/Crassostrea virginica (American Oyster)= 0.54 mg/l

LC50/96H/Mysidopsis bahia (Mysid Shrimp)= 0.17 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.

### 14. TRANSPORT INFORMATION

Class: Not regulated

### 15. REGULATORY INFORMATION

CLASSIFICATION:  
HAZARD SYMBOL: IRRITANT



Xi, IRRITANT

Contains: Sodium Bromide

RISK PHRASES:

R36 Irritating to eyes

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

StörfallVo:/12.BImSchV.Liste d.Anh.IIP: -

TA-Luft: -

Berufsgenossensch. Vorschriften: None

Hinweise zur Beschäftigungsbeschränkung: None

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**

Emergency Telephone Number +44 (0) 1625 267581

RELEVANT RISK PHRASES:  
R36 Irritating to eyes.