



Material Safety Data Sheet

Accepta 2028

Date issued: 01-06-2004

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Product Name:	ACCEPTA 2028
Application:	Biocide (DBNPA) Pulp & Paper process biocide In compliance with recommendation BgVV XXXVI
Company Identification:	Accepta Ltd. Quay West Trafford Wharf Road Manchester M17 1HH United Kingdom
Office telephone number:	+44 (0) 161 240 2100
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Emergency Telephone Number:	+44 (0) 161 240 2100

2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL DESCRIPTION: 2,2 - Dibromo - 3 - nitrilopropionamide, Glycol

HAZARDOUS INGREDIENTS:

CAS NO.	EINECS NO.	CHEMICAL NAME	WT %	SYMBOL	R-PHRASES
10222-01-2	2335397	2,2 - Dibromo - 3 - nitrilopropionamide	20	T,N	23,25,38,41,43,50

3. HAZARD IDENTIFICATION

HUMAN HEALTH HAZARDS: Acute

INHALATION: Harmful by inhalation.

SKIN CONTACT: Can cause severe irritation.

EYE CONTACT: Risk of serious damage to eyes. Vapours can cause watering of the eyes.

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

HUMAN HEALTH HAZARDS - CHRONIC: May cause sensitisation by skin contact. Kidney injury may occur.

ENVIRONMENTAL HAZARDS: Very toxic to aquatic organisms.

PHYSICAL AND CHEMICAL HAZARDS:



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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.

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: Water spray, foam, dry powder, carbon dioxide.

FIRE AND EXPLOSION HAZARD: May evolve toxic gases or fumes under fire conditions, Cyanogen bromide, Dibromoacetonitrile, Hydrogen bromide, bromine, Oxides of nitrogen.

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: Instruct personnel to keep at a safe distance. Ensure adequate ventilation. Wear respirator if ventilation is inadequate. Wear chemical resistant apron, chemical splash goggles, impervious gloves and Wellington boots. A full slicker suit is recommended if gross exposure is possible.

ENVIRONMENTAL PRECAUTIONS: Do not allow to enter sewers or water courses. If spillage does enter sewers or watercourses, immediately inform the appropriate water authorities. Toxic to aquatic organisms.

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.



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7. HANDLING AND STORAGE

HANDLING: Avoid contact with skin and eyes. Use with adequate ventilation. Do not breathe vapour. Avoid use of stainless steel, carbon steel, aluminium Zinc and their alloys.

STORAGE CONDITIONS: Keep container tightly closed in a cool, well-ventilated place. Containers require venting bungs to avoid over pressure. Storage for more than 6 months is not recommended. Keep at temperature not exceeding 35 °C.

CONSTRUCTION MATERIAL COMPATIBILITY: Compatible with:
Equipment for storage and application should be constructed from PVC, polyethylene, acrylic resin or PTFE.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS

2,2 - Dibromo - 3 - nitrilopropionamide: Manufacturers Recommendation 2 mg/m³ (ceiling)

NATIONAL REGULATIONS SWEDEN

Wear respiratory equipment (Cartridge respirator with particle filter P and gas filter type A, class 2)

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 (filter-type A)

HAND PROTECTION: PVC gloves, Neoprene gloves, Nitrile gloves.

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 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: Colourless – Yellow

ODOUR: None

BOILING POINT: > 120 °C (Decomposes)

FLASH POINT: >93 °C PMCC

VAPOUR PRESSURE (20 °C): 4 x 10⁽⁻⁵⁾ mmHg

RELATIVE DENSITY: 1.24 - 1.28 g/cm³ (15.5 °C)

SOLUBILITY IN WATER: Complete

pH 2.0 - 3.5

FREEZING POINT: < -33 °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: Heat (Keep at temperature not exceeding 35 °C).

MATERIALS TO AVOID: Bases, Reducing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: High temperatures: Cyanogen bromide, Dibromoacetonitrile, Hydrogen bromide, bromine and Oxides of nitrogen.

11. TOXICOLOGICAL INFORMATION

Please refer to section 3 for hazards identification.

ACUTE TOXICITY DATA:

ACUTE LETHALITY VALUES:

The following results are for the active ingredients:

Oral (rat) LD 50 = 178 - 235 mg/kg.

The following results are for the product:

Oral (rat) LD 50 = 800 - 1600 mg/kg

Dermal (rabbit) LD 50 = > 2000 mg/kg.

product (Aerosol):

Inhalation (rat) 4h / LC 50 = 1.25 - 1.40 mg/l

PRIMARY (DRAIZE TEST) SKIN/EYE

skin: Can cause severe irritation

eyes: Corrosive

SENSITIZATION: May cause sensitisation by skin contact.

CHRONIC TOXICITY DATA: No data available

12. ECOLOGICAL INFORMATION

PERSISTENCY AND DEGRADATION:

Chemical Oxygen Demand (COD) = appr. 25 mg/l (20 ppm)

Biological Oxygen Demand (BOD 5) = < 1 mg/l (20 ppm)

MOBILITY AND BIOACCUMULATION POTENTIAL:

This product has a low potential to bioconcentrate.

ECOTOXICOLOGICAL EFFECTS:

The following results are for the active ingredient:

LC 50/96H/Lepomis macrochirus (Bluegill Sunfish)= 1.3 mg/l.

LC 50/96H/Oncorhynchus Mykiss (Rainbow Trout)= 1.0 mg/l.

LC 50/96H/Cyprinodon variegatus (Sheepshead Minnow)= 1.4 mg/l.

LC 50/96H/Pimephales promelus (Fathead Minnow)= 1.4 mg/l.

LC 50/48H/Daphnia magna (Water Flea) = 1.2 mg/l.



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12. ECOLOGICAL INFORMATION (cont...)

ECOTOXICOLOGICAL EFFECTS: (cont...)

The following results are for the product:

LC 50/96H/Lepomis macrochirus (Bluegill Sunfish)= 8.9 mg/l
 LC 50/96H/Oncorhynchus Mykiss (Rainbow Trout)= 3.6 mg/l
 LC 50/96H/Cyprinodon variegatus (Sheepshead Minnow)= 7.5 mg/l
 LC 50/96H/Mysidopsis bahia (Mysid Shrimp)= 4.2 mg/l
 LC 50 /96H/Leuciscus idus (Gold Orfe)= 4.7 mg/l (OECD-203)
 LC 50/24H/Daphnia magna (Water Flea) = appr. 21 mg/l
 EC50/Pseudomonas Putida = >2.0 mg/l (DEV/DIN 38412, Teil 8)

ADDITIONAL ECOLOGICAL DATA:

The following results are for the active ingredient:

Bobwhite Quail Acute Oral LD 50 = 150 - 166 mg/kg.

Mallard Duck Acute Oral LD 50 = 205 - 216 mg/kg.

AOX information: Product contains organic halogens, may contribute to AOX

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: 55220

14. TRANSPORT INFORMATION

Class: 6.1 Packing Group: III UN No.2810

Proper shipping name: TOXIC LIQUID, ORGANIC, N.O.S. Contains: 2,2 - Dibromo - 3 - nitrilopropionamide

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

ADR/RID, No: 25(c)

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EmS-Nr.: 6.1-02

Marine pollutant: yes



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15. REGULATORY INFORMATION

CLASSIFICATION:
HAZARD SYMBOL: Harmful



Xn, HARMFUL

Contains: 2,2 - Dibromo - 3 - nitrilopropionamide

RISK PHRASES: R20/22 Harmful by inhalation and if swallowed. R38 Irritating to skin. R43 May cause sensitization by skin contact. R41 Risk of serious damage to eyes.

SAFETY PHRASES: S24 Avoid contact with skin. S23 Do not breathe vapour. 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). S28 After contact with skin, wash immediately with plenty of soap and water.

NATIONAL REGULATIONS GERMANY

VbF-Klasse: None

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

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

TA-Luft: -

Berufsgenossensch. Vorschriften: -

Hinweise zur Beschäftigungsbeschränkung: -

NATIONAL REGULATIONS UK

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

NATIONAL REGULATIONS HOLLAND

Allowed according to the "Bestrijdingsmiddelenwet 1962 (Stb.288)" Registration number: 11840 N

HAZARD SYMBOL: C, CORROSIVE

R-PHRASES: R22, R35, R37, R41, R43

SAFETY PHRASES: S2, S13, S20/21, S24/25, S36/37/39

NATIONAL REGULATIONS SWEDEN

SAFETY PHRASES: S350 Wear respiratory equipment (Cartridge respirator with particle filter P and gas filter type A, class 2).

Registered pesticides, Class 2, Reg. No 3547

NATIONAL REGULATIONS NORWAY

Registration number 015571

NATIONAL REGULATIONS AUSTRIA

VbF-Klasse: None



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16. OTHER INFORMATION

Emergency Telephone Number +44 (0) 161 240 2100