



Material Safety Data Sheet

Accepta 2103

Date issued: 01-06-2004

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Product Name: ACCEPTA 2103
Application: Biocide

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

CHEMICAL DESCRIPTION:
Water, Glutaraldehyde

HAZARDOUS INGREDIENTS:

CAS NO.	EINECS NO.	CHEMICAL NAME	WT %	SYMBOL	R-PHRASES
111-30-8	2038565	Glutaraldehyde	15 - < 25	T,N	23/25, 34, 42/43, 50
67-56-1	2006596	Methanol	< 1	F,T	11,23/24/25, 39/23/24/25

3. HAZARD IDENTIFICATION

This product is classified as dangerous (European Directive 1999/45/EC).

HUMAN HEALTH HAZARDS - ACUTE:

INHALATION:

Harmful by inhalation. Irritating to respiratory system. May cause sensitization by inhalation. May cause headache and dizziness. May cause tightness in the chest with shortness of breath and/or coughing and a sore throat.

Laboratory studies indicate the odour threshold to be 0.04 ppm by volume in air and the irritation response level to be 0.3 ppm.

SKIN CONTACT:

Causes burns. Can be absorbed through the skin. May cause sensitization by skin contact. Prolonged / frequent skin contact may cause dermatitis.

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. Harmful if swallowed.

HUMAN HEALTH HAZARDS - CHRONIC:

May cause sensitization by inhalation and skin contact.

ENVIRONMENTAL HAZARDS

Glutaraldehyde: Very toxic to aquatic organisms.



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4. FIRST AID MEASURES

INHALATION:

Obtain medical attention immediately. Remove to fresh air, rest, treat symptomatically. Artificial respiration and/or oxygen may be necessary.

SKIN CONTACT:

Obtain medical attention immediately. Speed is essential. Remove contaminated clothing. Wash off affected area immediately with soap and plenty of water.

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

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. Water mist may be used to cool closed containers.

FIRE AND EXPLOSION HAZARD

May evolve CO_x 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. Prevent contact with skin, eyes and clothing. 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. Avoid breathing vapors from headspace of newly opened containers.

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: Do not breathe vapour. Prevent contact with skin, eyes and clothing. Use with adequate ventilation. Avoid generating aerosols and mists. Use personal protective equipment recommended in Section 8.

STORAGE CONDITIONS: Protect from freezing. Keep container tightly closed in a cool, well-ventilated place.

Store away from organic chemicals and other oxidizable materials, reducing agents, acids and alkalis. Storage for more than 6 months is not recommended.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS

NATIONAL REGULATIONS GERMANY

Glutaraldehyde: MAK 0.1 ml/m³ (0.4 mg/m³) / TRGS 900

NATIONAL REGULATIONS UK

Glutaraldehyde: MEL 0.05 ppm (TWA & STEL) Sen

NATIONAL REGULATIONS SWITZERLAND

Glutaraldehyde: TWA 0.2 ppm (0.8 mg/m³), STEL 0.4ppm (1.6 mg/m³)

NATIONAL REGULATIONS FRANCE

Glutaraldehyde: VLE 0.2 ppm, 0.8 mg/m³, VME 0.1 ppm 0.4 mg/m³

NATIONAL REGULATIONS HOLLAND

Glutaraldehyde: MAC TGG 0.25 mg/m³ (ceiling)

NATIONAL REGULATIONS SWEDEN

Glutaraldehyde: TGV 0.8 mg/m³

Methanol: NGV 250 mg/m³, KTV 350 mg/m³ (skin)

NATIONAL REGULATIONS FINLAND

Glutaraldehyde: HTP 0.42 mg/m³ (ceiling)

Methanol: HTP 270 mg/m³ (8h), 330 mg/m³ (15 min.) (skin)

NATIONAL REGULATIONS NORWAY

Glutaraldehyde: TLV 0.8 mg/m³ (ceiling)

Methanol: TLV 130 mg/m³ (skin)

NATIONAL REGULATIONS DENMARK

Glutaraldehyde: GV 0.8 mg/m³ (ceiling)

Methanol: GV 260 mg/m³ (skin)

NATIONAL REGULATIONS AUSTRIA

Glutaraldehyde: MAK 0.2 ppm (0.8 mg/m³)

ENGINEERING MEASURES Use general ventilation with local exhaust ventilation. Use a closed dosing system.

Do not hand dose.

RESPIRATORY PROTECTION: An approved respirator must be worn if the occupational exposure limit is likely to be exceeded. Use approved air-purifying respirator or positive-pressure supplied-air respirator.

Self-contained breathing apparatus (when required by use conditions).

HAND PROTECTION:

Nitrile gloves, Butyl gloves. Most glove materials are of low chemical resistance. Replace gloves regularly.

SKIN PROTECTION: Apron and boots. Complete suit protecting against chemicals.

EYE PROTECTION: Chemical splash goggles, face shield.

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: Colourless / Light yellow

ODOUR: Pungent

VALUE UNIT TEST METHOD

BOILING POINT: >100 °C

FLASH POINT: None ASTM D-56

RELATIVE DENSITY: 1.06 (20 °C)

SOLUBILITY IN WATER: Complete

pH (25 °C) 4

OCTANOL/WATER COEFFICIENT: -0.33 log POW OECD 107

VISCOSITY 2.71 (20 °C) 1.48(40 °C)

FREEZING POINT: - 4 °C

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10. STABILITY AND REACTIVITY

STABILITY:

Stable under ambient conditions.

CONDITIONS TO AVOID:

Freezing temperatures. Heat.

MATERIALS TO AVOID:

Strong acids, Strong bases.

HAZARDOUS DECOMPOSITION PRODUCTS:

Oxides of carbon (under fire conditions).

11. TOXICOLOGICAL INFORMATION

Hazard classification is based on 1999/45/EC, 67/548/EEC and available ingredient toxicity data. Please refer to section 3 for hazards identification.

ACUTE TOXICITY DATA:

ACUTE LETHALITY VALUES:

The following results are for a similar product

(25 % Glutaraldehyde):

Oral (rat) LD50 = 1540 mg/kg

Dermal (rabbit) LD50 = 2128 mg/kg

SENSITIZATION:

Glutaraldehyde:

Levels of greater than 0.2% of glutaraldehyde produced allergic contact dermatitis in human studies.

May cause sensitization by inhalation. May cause sensitization by skin contact.

OTHER INFORMATION

Glutaraldehyde: Laboratory studies indicate the odour threshold to be 0.04 ppm by volume in air and the irritation response level to be 0.3 ppm.

12. ECOLOGICAL INFORMATION

PERSISTENCY AND DEGRADATION:

OECD / MITI TEST METHOD: Biological Degradation DOC = > 70% .

Readily eliminated.

Hydrolysis: Half-life 508 day(s) (pH 5), 102 day(s) (pH 7), 46 day(s) (pH 9).

Theoretical Oxygen Demand (Thod): 384000 mg O2/kg (estimated).

MOBILITY AND BIOACCUMULATION POTENTIAL:

log Kow = -0.33 (OECD 107). No bioaccumulation.

ECOTOXICOLOGICAL EFFECTS:

LC50/96H/Pimephales promelus (Fathead Minnow)= 21.6 mg/l

NOEC/96H/Pimephales promelus (Fathead Minnow)= 10.4 mg/l

Pimephales promelus, juvenile 32D NOEC: 5.6 mg/l

LC50/96H/Lepomis macrochirus (Bluegill Sunfish)= 37.6 mg/l

NOEC/96H/Lepomis macrochirus (Bluegill Sunfish)= 10 mg/l

LC50/96H/Cyprinodon variegatus (Sheepshead Minnow)= 128 mg/l

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

Salmo gairdneri 96H LC50 = 48 mg/l NOEC: 36 mg/l

Oncorhynchus kisutch 96H LC50 = 12 mg/l

LC50/48H/Daphnia magna (Water Flea) : 20 mg/l

NOEC/21D/Daphnia magna (Water Flea) = 8.4 mg/l

LC50/96H/Mysidopsis bahia (Mysid Shrimp)= 28.4 mg/l

NOEC/96H/Mysidopsis bahia (Mysid Shrimp)= 3.12 mg/l

EC50/72H/Skeletonema costatum (Marine Algae)= 2.44 mg/l NOEC: 1.32 mg/l

Scenedesmus subspicatus 72H EC50: 3.4 mg/l NOEC: 1.24 mg/l

Carcinus maenas 96H LC50 = 1860 mg/l

Palaemonetes pugio 96H LC50 = 164 mg/l

Crassostrea virginica larvae 48H LC50 = 2.20 mg/l

Crassostrea virginica 96H EC50: 3.12 mg/l NOEC: 0.64 mg/l

Mytilus edulis 5D EC50: 0.8 mg/l

Balanus improvisus 10D EC50: 30.0 mg/l

Acartia tonsa 48H EC50: 0.45 mg/l NOEC: 0.116 mg/l

Bacteria: 16H IC50 (b) = 68 mg/l NOEC: 20 mg/l

Bacteria: 0.5H IC50 (r) = > 200 mg/l NOEC: 64 mg/l

ADDITIONAL ECOLOGICAL DATA:

The following results are for the active ingredient Glutaraldehyde (25 % solution):

Bobwhite Quail Acute Oral LD50 = 10000 ppm. Mallard Duck 8-Day Dietary LC 50 = 10000 ppm.

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. 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.

NATIONAL REGULATIONS AUSTRIA

Waste Code: 59305

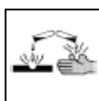
14. TRANSPORT INFORMATION

Class: Not regulated.

15. REGULATORY INFORMATION

CLASSIFICATION:

HAZARD SYMBOL: CORROSIVE



C, CORROSIVE

Contains: Glutaraldehyde

RISK PHRASES:

R20/22 Harmful by inhalation and if swallowed. R34 Causes burns. R42/43 May cause sensitization by inhalation and skin contact.

SAFETY PHRASES:

S23 Do not breathe vapour. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/S37/39 Wear suitable protective clothing, gloves and eye/face protection. S28 After contact with skin, wash immediately with plenty of water. 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: 3 Classification according VwVwS v. 17.05.99, Anhang 4

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

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. Refer to HSE Chemical Hazard Alert Notice for Glutaraldehyde CHAN 7.

Refer to HSE guidance "Preventing asthma at work. How to control respiratory sensitisers" (L55).

NATIONAL REGULATIONS FRANCE

Glutaraldehyde: Tableaux des maladies professionnelles n° 65, 66A et 84.



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16. OTHER INFORMATION

Emergency Telephone Number +44 (0) 161 240 2100

RELEVANT RISK PHRASES:

R23/25 Toxic by inhalation and if swallowed. R34 Causes burns. R42/43 May cause sensitization by inhalation and skin contact. R50 Very toxic to aquatic organisms. R11 Highly flammable. R23/24/25 Toxic by inhalation, in contact with skin and if swallowed. R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.