

SAFETY DATA SHEET BIODOSE IT

1. COMPOSITION/INFORMATION ON INGREDIENTS

PREPARATION

Chemical nature: Blend of nitrogen heterocyclic compounds in aqueous solution
CAS No.: Proprietary product

2. HAZARDS IDENTIFICATION

MOST IMPORTANT HAZARDS

Adverse human health effects: Corrosive Causes BURNS (*)
May cause sensitisation by skin contact.
Physical and Chemical Hazards: (*) No specific hazard under normal conditions of use according to EEC criteria, this product is classified as CORROSIVE (*).

3. FIRST-AID MEASURES

Inhalation: Not specifically applicable (aqueous liquid)
Skin Contact: Wash immediately with plenty of soap and water.
Remove all contaminated clothing and footwear.
Eye Contact: IMMEDIATELY rinse with plenty of water for a prolonged period, (at least 15 minutes) whilst keeping the eyes wide open.
Consult and eye specialist if necessary.
Ingestion: If the person is FULLY conscious, make him/her drink plenty of water. NEVER give an unconscious person anything to drink.
Consult a doctor if necessary.

4. FIRE-FIGHTING MEASURES

Extinguishable media:

Suitable: Carbon Dioxide (CO₂)
Foam
Water spray
Not Suitable: None to our knowledge. If there is a fire close by, use suitable extinguishing.
Specific hazards: On heating or during combustion toxic gases are released.
Specific fire-fighting methods (*): Cool down the containers/equipment exposed to heat with a water spray. (*)

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5. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Avoid contact with skin and eyes
Personal protective equipment:	
	- suitable protective clothing
	- appropriate gloves
	- eye/face protection (safety glasses + visor)
Environmental precautions:	Do NOT discharge into drains or rivers
Methods for cleaning up:	
Recovery:	Recover as much of the product as possible.
Neutralisation:	Absorb with:
	- inert absorbent material
	Neutralise with:
	- dilute sodium bisulphate solution (11%)
	Leave to stand for 48hr prior to disposal
Cleaning/Decontamination:	Spray all the contaminated area with large amounts of water
Disposal:	Dispose of all contaminated materials in accordance with current regulations.

6. HANDLING AND STORAGE

HANDLING

Technical measures: Does not require any specific or particular measures

STORAGE

Technical measures: Storage facilities should be ventilated (*)

Storage conditions:

Recommended: Store away from food, drinks and animal foodstuffs in a cool area only in the original container at temperatures of between 0°C and 55°C.

Incompatible products: Strong oxidising agents.

Packaging: Plastic drums

Packaging materials:

Recommended: Plastic materials

Not suitable (*): Steel (*)

7. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment:

Hand protection: Butyl-rubber protective gloves (*)

Eye protection: Goggles and face shield (*)

Skin and body protection: Light overall

8. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Physical state: Liquid

Colour: Transparent, pale green

Odour: Slight

pH: 2 – 5 (aqueous solution – 10g/100ml)

Specific temperatures:

Freezing: -3°C

Boiling: Approx. 100°C

Flammability characteristics:

Flash point: Not applicable (aqueous liquid)

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Oxidising properties: Non oxidising material according to EEC criteria
Specific gravity: 1.02g/cm³ at 25°C
Solubility:
In water: Miscible (in all proportions)
In organic solvents: Water miscible solvents

9. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of use
Hazardous reactions:
Materials to avoid: Reacts with:
Strong oxidising agents
Alkalis and caustic products
Amines (*)
Hazardous decomposition:
Products: On combustion forms:
(Hydrochloric acid)
(Sulphur oxides)
(Nitrogen oxides)
(Carbon oxides (CO + CO₂))

10. TOXICOLOGY INFORMATION

Acute toxicity: LC 50 inhalation (Rat) 4h>13.7mg/l (*)
LD 50 skin (Rabbit) >5000mg/kg
LD 50 oral (Rat) : 3810mg/kg
Local effects: Severely irritating to rabbits on cutaneous applications (*) Extremely
irritating to rabbits on ocular application (severe ocular lesions) (*)
corrosive (*)
Sensitisation: May cause sensitisation on contact with skin

11. ECOLOGICAL INFORMATION

Behaviour in the environment:
Persistence/Degradability: Potentially biodegradable
Ecotoxicity: effects on the LC 50 (Daphnia) 0.16 ppm
aquatic environment: LC 50 (Fish salmo gairdneri) 0.19 ppm
LC 50 (Fish lepomis macrochirus) 0.28 ppm
Prior to deactivation, this product is toxic for fish.

12. DISPOSAL CONSIDERATIONS

WASTE FROM RESIDUES:

Destruction/Disposal: Treat with an aqueous solution of sodium bisulphate (11%) of
metabisulphate (pH – 4.2) (2 parts of solution to part of product).
Leave for 30 mins prior to disposal.
Disposal of at a licensed waste collection point.

CONTAMINATED PACKAGING

Decontamination/cleaning: Rinse with water
Destruction/Disposal: Recycle following cleaning or dispose of at an authorised site.
NOTE The user's attention is drawn to the possible existence of local
regulations regarding disposal.

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13. TRANSPORT INFORMATION

International regulations:

Land:

Rail/Road (RID/ADR): UN number 1760 (*)
Class 8 (*)
Item number 66(c) (*)
Hazard identification number 80 (*)
Labelling 8 (*)

Sea (IMO/IMDG): UN number 1760 (*)
Class 8
Packaging group III (*)
Labelling 8 CORROSIVE
Marine pollutant NO (*)

Air (ICAO/IATA): UN number 1760
Group 8
Packaging group III
Labelling 8 CORROSIVE
Passenger aircraft: Packing instruction 818 quantity 5L (*)
Cargo aircraft: Packaging instruction 820 quantity 60L (*)

NOTE:

The above regulatory prescriptions are those valid on the date of publication of this sheet.
Given the possible evolution of transport regulations for hazardous materials, it would be advisable to check their validity.

14. REGULATORY INFORMATION

Labelling:

EEC Regulations: Mandatory labelling (self-classification) of hazardous preparations:
Applicable.

Classifications/Symbols: CORROSIVE (C) (*)

R – Phrases: R34 Causes burns (*)

S – Phrases: R43 May cause sensitisation by skin contact

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 soap and water (*)

S36/37/39 Wear suitable protective clothing

S45 If unwell seek medical advice immediately

Further regulations:

United Kingdom: Handle in accordance with relevant British Legislation Environmental Protection Act 1990.

Collection and Disposal of Waste Regulations 1988

Chemical Hazard Information and Packaging Regulations 1993

Control of Substances Hazardous to Health Regulations 1988

Carriage of Dangerous Goods by Road and Rail (Classification, Packaging and Labelling) Regulations 1994

Carriage of Dangerous Goods by Rail Regulations 1994

Road Traffic (Carriage of Dangerous Substances in Road Tankers and Tanker Containers) Regulations 1992

NOTE:

The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the

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Safety Data Sheet.

The user's attention is drawn to the possible existence of additional provisions which complete these regulations.

Refer to all applicable national, international and local regulations or provisions.

15. OTHER INFORMATION

Uses

Recommended uses:

Preservative

Update

This sheet was updated (22/06/1995). Subheadings and text which have been modified since the previous version are preceded with an asterix (*). This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith.

The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it is intended.

This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product.

The aim of the mandatory regulations mentioned is to help the user to fulfil his obligations regarding the use of hazardous products.

This information is not exhaustive.

This does not exonerate the user from ensuring that legal obligations, other than those mentioned, relating to the use and storage of the product, do not exist. This is solely his responsible.