

SAFETY DATA SHEET

I-4-All

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Trade Name I-4-All
Use/Description of Product Fertiliser
Manufacturer Ecoculture Biosciences S.L.
Carretera de Torrecardenas nº54 I°B 04230 Huerca de Almería, Almería. España
info@ecoculturebs.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

MANGANESE SULPHATE I-10% EINECS: 232-089-9 CAS: 7785-87-7 [Xn] R48/20/22; [N] R51/53

IRON SULPHATE I-10% CAS: 7782-63-0 [Xn] R22

Contains:

ZINC SULPHATE I-10% EINECS: 231-793-3 CAS: 7733-02-0 [Xn] R22; [Xi] R41; [N] R50/53

COPPER SULPHATE I-10% EINECS: 231-847-6 CAS: 7758-98-7 [Xn] R22; [Xi] R36/38; [N] R50/53

3. HAZARDS IDENTIFICATION

Main Hazards Irritating to eyes. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES (SYMPTOMS)

Skin contact There may be irritation and redness at the site of contact
Eye contact There may be irritation and redness. The eyes may water profusely.
Ingestion There may be soreness and redness of the mouth and throat.
Inhalation There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing

4. FIRST AID MEASURES (ACTION)

Skin contact Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water
Eye contact Bathe the eye with running water for 15 minutes. Consult a doctor
Ingestion Wash out mouth with water. Consult a doctor
Inhalation Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor

5. FIRE-FIGHTING MEASURES

Extinguishing media Suitable extinguishing media for surrounding fire should be used. Use water spray to cool containers
Exposure hazards In combustion emits toxic fumes

SAFETY DATA SHEET

I-4-AII

Protection of fire fighters Wear self contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Refer to section 8 of SDS for personal protection details. If outside do not approach from down wind. If outside keep bystanders upwind and away from the danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak side up to prevent escape of liquid

Environmental precautions Do not discharge into drains or rivers. Contain the spill using bunding

Clean up procedures Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by the appropriate method

7. HANDLING AND STORAGE

Handling requirements Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Avoid formation or spread of mists in the air

Storage conditions Store in a cool, well ventilated area. Keep container tightly closed

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Hazardous ingredients Copper sulphate. UK – 8 hour TWA: 1mg/m³. UK – 15 min STEL: 2mg/m³

Engineering measures Ensure there is sufficient ventilation in the area

Respiratory protection Self contained breathing apparatus must be available in case of emergency

Hand protection Protective gloves

Eye protection Safety glasses. Ensure eye bath is to hand

Skin protection Protective clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

State Liquid

Colour Dark Green

Odour Barely perceptible odour

Evaporation rate Slow

Oxidising Non-oxidising (by EC criteria)

Solubility in water Highly soluble

Viscosity Non-viscous

Relative density 1.220 – 1.230

pH: 2.5 – 3.0

10. STABILITY AND REACTIVITY

Stability Stable under normal conditions

Conditions to avoid Heat

Materials to avoid Strong oxidising agents. Bases. Metals

Haz. Decomp. products In combustion emits toxic fumes

SAFETY DATA SHEET

I-4-AII

11. TOXICOLOGICAL INFORMATION

Routes of exposure Refer to section 4 of SDS for routes of exposure and corresponding symptoms

12. ECOLOGICAL INFORMATION

Mobility Readily absorbed into the soil
Persistence and degradability Biodegradable
Bio accumulative potential No bioaccumulation potential
Other adverse effects Toxic to aquatic organisms. Toxic to soil organisms

13. DISPOSAL CONSIDERATIONS

NB: The users attention is drawn to the possible existence of regional or national regulations regarding disposal

14. TRANSPORT INFORMATION

ADR/RID

UN no: 3082 **ADR Class:** 9 **Packing group:** III **Classification code:** M6
Labelling: 9 **Hazard ID no:** 90

Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (MANGANESE SULPHATE; ZINC SULPHATE; COPPER SULPHATE)

IMDG/IMO

UN no: 3082 **Class:** 9 **Packing group:** III **EmS:** F-A,S-F
Labelling: 9

IATA/ICAO

UN No **UN no:** 3082 **Class:** 9 **Packing group:** III **Packing instructions:** 914
Labelling: 9

SAFETY DATA SHEET

I-4-AII

15. REGULATORY INFORMATION

Hazard symbols	Dangerous for the environment.
	Irritant.
	R36: Irritating to eyes.
Risk phrases	R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
	S61: Avoid release to the environment. Refer to special instructions / safety data sheets.
	S24/25: Avoid contact with skin and eyes.
Safety phrases	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
Note	The regulatory information given above only indicates the principle regulations specifically applicable to the product described in the safety data sheet. The users' 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.

16. OTHER INFORMATION

Legal disclaimer	The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.
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