

(91/155/EEC) **MATERIAL SAFETY DATA SHEET**

1. PRODUCT AND COMPANY IDENTIFICATION

DATE 01/03/05

PRODUCT NAME : **AGROCEAN MnZn**

SUPPLIER – MANUFACTURER : **AGRIMER**
Prat Menan - BP 29
29880 PLOUGUERNEAU - FRANCE
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EMERGENCY CALLING: Orilla (33) 01 45 42 59 59
Anti-Poison Center (Rennes) (33) 02 99 59 22 22

2. COMPOSITION/INFORMATION ON INGREDIENTS

Description of the preparation : Mixture of Manganese Sulfate (15.6 % weight/weight)
Zinc Sulfate (15.35%weight/weight)

Constituents: Manganese Sulfate
C.A.S. N° 77558-87-7
EC (EINECS) N° 232-089-9
Zinc Sulfate
C.A.S. N° 7446-20-0
EC (EINECS) N° 231-793-3

3. HAZARD IDENTIFICATION

Hazard classified substance for environment.
Main effects bound to the corrosive and irritating properties. Irritating for eyes and skin.
Very toxic for aquatic organisms.

4. FIRST AID MEASURES

Inhalation : Supply person with fresh air.
Eyes : Rinse with a lot of water 15 minutes and seek medical attention.
Skin : Remove the soiled clothes and rinse with water. In case of itch and redness seek medical advice.
Ingestion : Immediately rinse out mouth and drink plenty of water. In case of indisposition seek medical advice. Do not induce vomiting.

5. FIRE – FIGHTING MEASURES

Appropriate method of extinction : All the extinguishing media are possible.
Specific hazards : Collect separately waters of extinction.
Protection of fire-fighting personal : Breathing apparatus.

AGROCEAN MnZn

6. MANAGEMENT OF ACCIDENTAL DISPERSION

Individual protections : Avoid contact with eyes and skin. Use a respiratory mask, rubber or latex gloves and safety goggles.

Methods of cleaning : Absorb the product with absorbent compounds. Flush with water and recover the flush water. Do not throw directly to the sewer. Product very toxic for environment.

7. HANDLING AND STORAGE

Handling : Use a respiratory mask, rubber or latex gloves and safety goggles.

Storage : Keep the product into closed original container. Store out frost and excessive heat.

Packaging : 1000 liters tanks or 5 liters cans.

8. CONTROL OF INDIVIDUAL EXPOSURE

Technical measure: Work in fresh air.

Exposition limit values: Manganese Sulfate MAK 5mg/m³

Respiratory protection : Respiratory mask.

Protection of the skin : Over is recommended.

Protection of the eyes : Safety goggles.

Necessary hygiene restrictions: Wash hands with water after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Aspect: Green liquid

Smell: Characteristic

Density: 1.27

pH: 5.2

Solubility: Soluble in water in all proportions

Melting point: Not applicable

Boiling point: Not defined

Temperature of decomposition: Not defined

Vapour pressure: Not applicable

Explosive hazard: Not explosive

Combustive properties: Not combustive

10. STABILITY AND REACTIVITY

Condition to be avoided : None.

Hazardous decomposition products :

Other informations:

11. TOXICOLOGICAL DATA

Acute toxicity (pure Zinc sulfate): Oral way: LD 50 rat: >2150mg/kg.
Cutaneous irritation: Risk of cutaneous allergy if the handling is repeated.
Ocular irritation: Very Irritating. Redness and watering. Risk of reversible hurts of the eye.
Ingestion: Cause intensive mouth, throat, oesophagus and stomach irritations. Abdominal pains, diarrheas.

12. ECOLOGICAL DATA

Product is toxic for environment. Do not throw directly to the sewer and river.
Acute Ecotoxicity of Sulfates:
 Fish : lethal 7 g/l.

13. DISPOSAL AND DESTRUCTION INFORMATION

Operating in accordance with local and state laws.
 Do not throw directly to the sewer.
 Destroy the packaging according to national or local legislation.

14. SHIPMENT INFORMATION

Road: Class9
 Hazard identification code: 90
Sea transport : Class 9
 Maritime pollutant: yes

15. REGULATORY INFORMATION

S (phrases):

- S2:** Keep out of reach of children.
- S23:** Do not breathe sprayings.
- S24:** Avoid the contact with skin.
- S26:** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S29:** Do not throw directly to the sewer
- S60:** Eliminate the product and the bowl as a dangerous scrap.
- S61:** Avoid to throw to the aquatic environment.

16. OTHERS INFORMATIONS

This sheet completes the technical leaflet but doesn't replace it. The information written here above are based on our relative knowledge to the concerned product, at the time of writing this safety data sheet. They are honestly written. A list of the main regulation, legislation and administrative texts can be joined to this sheet as indication. The use of the product for others purposes than those indicated on the label may present a risk.