

ELECTROLYTIC CLEANING SALTS

PRODUCT SAFETY DATA SHEET

INTRODUCTION

ELECTROLYTIC CLEANING SALT has been designed as a Hot Soak/Electrolytic Cleaner for Ferrous and Non Ferrous Metals. The formulation contains fully biodegradable wetting agents. "ES" is designed to soften and loosen polishing compounds, to remove a wide variety of contaminants, including lanolin based lubricants and to provide a good start to the cleaning cycle. It is recommended that where heavy soils are encountered, this process be followed by a cold or hot electrolytic process.

RECOMMENDED EQUIPMENT

Mild Steel Tanks

Mild Steel Electric Immersion Heaters or Heating Coils.

Stainless equipment may also be used.

DO NOT USE GALVANISED EQUIPMENT.

PRODUCT USE.

1. As a general Soak/Electrolytic Cleaner for Non-Ferrous Metals.

Concentration:	4-16 oz/gal (25-100 gpl)
Temperature:	50 - 80 deg. C
Electrolytically:	10 - 50 amps per square foot

2. As a soak cleaner for Zinc base diecastings.

Concentration:	4 - 8 oz/gal (25 - 50 gpl)
Temperature:	50 - 60 deg. C

Air agitation may be used with this product to assist in soil removal. However! care must be exercised as excessive agitation may cause a temperature reduction or excessive foam.

PREPARATION.

Fill the tank to 2/3rds capacity with cold water. Add required amount of Salts slowly and carefully, stirring continuously. Make up to correct volume with water and heat to correct operating temperature.

This product is strongly alkaline and corrosive in nature. Wear protective clothing when handling. Do not allow this substance to come into prolonged contact with skin and avoid all contact with eyes. In cases of contact, rinse with large amounts of water.

REFER TO COSHH INFORMATION SHEET BEFORE USE.

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1. **IDENTIFICATION OF SUBSTANCE:** ELECTROLYTIC CLEANING SALTS. For use dilution as a degreasing salt and general cleaner.

2. **COMPOSITION:** A non caustic off white crystalline salt based on Sodium Metasilicate with a powerful surfactant system, chelates and alkaline modifiers. Corrosive Solid Nos.

3. **HAZARDS IDENTIFICATION:** Spillage will affect vegetation. Toxic to aquatic life. Irritating to skin & eyes and to respiratory system if inhaled as dust. May cause irritation and burns to skin which may be exacerbated by heat.

4. **FIRST AID MEASURES:**

Inhalation: Irritating to respiratory system (dust only).

Action to be taken: Remove from exposure, keep warm & at rest. If their is respiratory distress give oxygen. If respiration stops or shows signs of failing. Apply artificial respiration. Do not use mouth to mouth ventilation. Obtain medical attention urgently.

Ingestion: Irritating/corrosive to digestive tract.

Action to be taken: Take patient to fresh air & rinse out nose, mouth & throat with water. Do no induce vomiting. Treatment may be needed for shock or pain. Seek medical attention.

Eyes: Extreme irritant. Pain

Action to be taken: Speed is essential. Irrigate with eyewash solution or clean water for at least 10 minutes. Continue irrigation until medical attention can be obtained.

Skin: Irritant if left on skin.

Action to be taken: Brush off powder from affected area and wash with water. Powerful defatting agent. Danger of skin infection if persistently.

Systemic Effects: RESPIRATORY. None other than as above.

BLOOD. No hazard established.

Usual protective measures, required when handling this material. Chemical proof gloves or gauntlets, eye protection, aprons and wellingtons.

5. **FIRE FIGHTING MEASURES:** None Combustible.

Action to be taken: May give off toxic decomposing fumes in a fire. Fire fighters should wear self contained breathing apparatus.

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6. **ACCIDENTAL RELEASE MEASURES:** Spillages to the environment may cause harm to aquatic life and vegetation. Sweep up small spillages of powder & avoid generating dust. Remove to site for neutralisation & disposal. Large spillages of solution will require larger quantities of water to dilute to safe levels before swilling to drain.

7. HANDLING & STORAGE

7.1 **HANDLING:** Must be handled with suitable protective clothing.

7.2 **STORAGE:** In enclosed bags in cool dry environment.

8. EXPOSURE CONTROLS & PERSONAL PROTECTION:

Personal Protection (Safety Equipment): Protective clothing must be worn at all times when handling this product. ie. Gloves, chemical resistant boots, chemical resistant clothing and eye protection.

9. PHYSICAL & CHEMICAL PROPERTIES:

Appearance:	Free flowing white/off powder
Odour:	Imperceptible
pH:	1% aqueous solution 12.7
Boiling Point:	N/A
Melting Point:	N/A
Freezing Point:	N/A
Flash Point:	N/A
Flammability:	Non flammable
Explosive Properties:	Non explosive
Oxidising Properties:	Not an oxidising agent
Vapour Pressure:	N/A
Relative Density:	Dry powder. 950gpl
Solubility:	Completely soluble in water.

10. **STABILITY & REACTIVITY:** Will cake in the presence of water. Will react when exposed to acidic compounds.

11. **TOXICOLOGICAL INFORMATION:** LD50 Oral (rat): 1300 grms/kg

Exposure Limits: (DUST) 2mg/M3

Carcinogenicity: Non carcinogenic **Mutagenecity/Teragenecity:** None

12. **ECOLOGICAL INFORMATION:** Increase in pH 10 or more is lethal to aquatic life.

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13. **DISPOSAL CONSIDERATIONS:** Accumulated wastes and residues should be disposed of through a suitable effluent treatment system or in accordance with local and national regulations.
14. **TRANSPORT INFORMATION: UN (SIN) No. 1759**
Class 8 CORROSIVE Packing Group II ADR: Not listed
CAS. 6834-92-0 Proper shipping Name: "Electrolytic Cleaning Salts" -
CORROSIVE POWDER
15. **REGULATORY INFORMATION: EC Supply Label: CORROSIVE**
- Risk Phrases: R20/22, 34, 38
Safety Phrases: S.2, 24/25, 26. 27, 37/39
16. **OTHER INFORMATION:**
- i) Refer to the Product Data Sheet before use.
 - ii) Other sources of information may be obtained from the following:
Registry of Toxic Effects of Chemical Substances. Pub. National Institute of Occupational Safety & Health. USA
EH.40 Approved List of Hazardous Substances. EEC

NOTE: This product is to be used only for those purposes as described in the Product Data Sheet and for no other purpose. The method of operation likewise is as described therein. We cannot accept responsibility for any risks arising or injuries sustained from the misuse of this product.

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