

PRODUCT SAFETY DATA SHEET

1 Identification of Substance:

**ELECTROLYTIC CLEANING
SALTS**

2 Composition:

Chemical name:

Sodium Metasilicate.
CAS No.: 6834-92-0

EC No.: 229-912-9
R-Phrases: R34 R37

Symbol: Corrosive



Corrosive

3 Hazards Identification:

Human health hazards:

Cause burns. May cause permanent damage to eyes. Irritating to respiratory system.

4 First Aid Measures:

Inhalation:

Remove from source of exposure, rest and keep warm. Remove to fresh air obtain medical attention urgently.

Ingestion:

Wash out mouth with water. Give 1 or 2 glasses of cold water or milk to drink. Do not induce vomiting. Obtain medical attention urgently.

Skin Contact:

Wash skin thoroughly with water. Obtain medical attention.

Eye Contact:

Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention urgently.

5 Fire Fighting Measures:

Not applicable. Inorganic granules. Will not support combustion.

6 Accidental Release Measures:

Personal Precautions:

Wear appropriate protective clothing. Wear suitable eye protection. Dust mask if conditions are dusty. See section 8 for advice on personal protection.

Environmental precautions:

Try to prevent the material from entering drains or water courses. Advise authorities if spillage has entered water course or sewer or has contaminated soil or vegetation.

and cleanup methods

Avoid creating a dust. Sweep or preferably vacuum up and collect in suitable containers for recovery or disposal.

7 Handling and Storage:

Handling:

Avoid contact with eyes, skin and clothing. Emergency shower and eye wash facilities should be readily available. Avoid inhaling dust. See section 8 for advice on personal protection.

Storage:

Bags and containers must be kept closed and in a dry place. See section 10 for materials to avoid.

**Packing materials
Recommended use:**

Use original container.

8 Exposure Controls & Personal Protection:

Hygiene measures:

Wash hands after handling compounds and before eating, smoking, using lavatory and at the end of the day.

Occupational exposure limits:	UK EH40: None assigned ACGIH: None assigned An exposure limit of 3mg/m ³ (15 min TWA) is recommended by analogy with sodium hydroxide. Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (dilution and local exhaust), and control of process conditions. Avoid inhalation of dust. Wear suitable respiratory protective equipment if working in confined spaces with inadequate ventilation or whenever there is a risk of the exposure limits being exceeded. Advice on respiratory protective equipment is given in the HSE publication.
<u>Personal protective equipment</u>	
Skin and body:	Wear suitable overalls.
Hands:	HS(G)53 PVC or rubber gloves.
Eyes:	Chemical goggles must be worn.
Protection During Application:	Handle in well ventilated conditions in accordance with good industrial hygiene and safety practices. No eating, drinking or smoking in the workplace. Practice good industrial hygiene.

9 Physical & Chemical Properties:

Physical state:	White powder
Odour:	Odourless.
PH:	Strongly alkaline.
Flash point:	N/A
Melting point:	>1000°C
Flammability:	Does not burn
Solubility in water:	Miscible with water.

10 Stability & Reactivity:

Stability:	Stable.
Known Hazardous reactions:	When arc welding vessels containing aqueous solutions of this material, take care to control any explosion risk from hydrogen evolved by electrolysis.
Materials to avoid:	Aqueous solutions will react with aluminium, zinc, tin and their alloys evolving hydrogen. This product may react violently with acids. Reducing sugars may react evolving carbon dioxide.

11 Toxicological Information:

Effects:	Dust will cause severe irritation of the nose, throat and respiratory tract. Will cause chemical burns.
Acute toxicity:	LD50: 1280 mg/kg Oral-rat

12 Ecological Information:

Ecotoxicity:	Soluble silicates, upon dilution, rapidly depolymerise into molecular species indistinguishable from natural dissolved silica. The alkalinity of this material will have a local effect on ecosystems sensitive to changes in pH.
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13 Disposal Considerations:

Methods of disposal:	Discharge of this product to sewage treatment works is dependent on local regulations with regard to pH controls. This material is classified as hazardous waste under EEC Directive 91/689/EEC. Dispose of in accordance with all applicable local and national regulations. This material is classified as a special waste under the UK Special Waste Regulations 1996.
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14 Transport Information:

<u>International transport regulations</u>	3253
UN number:	
	Corrosive
Primary Hazard:	III
Packing Group:	80
H. I. Number:	

Class / Item Number: 8, 41(c)

15 Regulatory Information:**EU Regulations****Hazard symbol(s):****Classification:**Corrosive
R34

Causes burns.

Risk Phrases:

R37

Irritating to respiratory system

Safety Phrases:

S1/2

Keep locked up and out of reach of children

S13

Keep away from food, drink and animal feeding stuffs

S24/25

Avoid contact with skin and eyes

S36/37/39

Wear suitable protective clothing, gloves and eye/face protection

S45

In case of accident or if you feel unwell, seek medical advice immediately, (show the label where possible).

Product Use:**The information contained in this data sheet does not constitute an assessment of workplace risk.****16 Other Information:****Date of issue:** 30/11/2009**Date of previous issue:** 01/06/2006**Issue number:** 9**Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the named supplier nor and of its subsidiaries assumes any liability for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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