

MATERIAL SAFETY DATA SHEET: ACID ETCH

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

Product name

JESMONITE ACID ETCH

Company Address:

Jesmonite Limited. Challenge Court, Bishop's Castle, Shropshire, SY9 5DW

Information in case of emergency:

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2. COMPOSITION / INFORMATION ON INGREDIENTS

Composition: Formulated product, an aqueous solution of Hydrochloric Acid and Thiocarbamide.

Physical and chemical properties

Description	Liquid
Colour	Amber
Odour	Characteristic
pH	1
Relative Density	1.14
Water Solubility	Soluble

3. HAZARDS IDENTIFICATION

Hazard classification information

Mains Hazards

Causes Burns. Irritating to respiratory system

None recommended – see regulatory information.

CHIP risk phrases:

None recommended – see regulatory information.

CHIP safety phrases:

None recommended – see regulatory information.

Composition/Information on ingredients:

Hydrochloric Acid and Thiocarbamide.

Physical and environmental: Not assigned by IMO reports and studies (4). Non hazardous to living resources – see other information.

Adverse human health affects: A substance of low toxicity widely used in food and medicine. See toxicological information.

4. FIRST AID MEASURES

Inhalation: Inhalation of vapour may cause shortness of breath. Move the exposed person to fresh air. Seek medical attention.

Skin Contact: Can Cause burns. Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.

Eye Contact: Causes Burns. Irrigate eye thoroughly with water for at least 10 minutes, holding the eyelids apart if necessary. Obtain medical attention if necessary.

Ingestion: Ingestion causes burns to the respiratory tract. Do not induce vomiting. If swallowed, seek medical attention.

5. FIRE FIGHTING MEASURES

Special protective equipment: Wear suitable respiratory equipment when necessary.

Extinguishing media: Select extinguishing medium appropriate to other materials involved in and/or to the circumstances of the fire. Keep containers cool with water spray.

Fire exposure hazards: C- Corrosive. Burning produces irritating, toxic fumes.

6. ACCIDENTAL RELEASE MEASURES

Methods for cleaning up: Absorb with with inert, absorbent material. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with water.

Personal precautions: Ensure adequate ventilation of the working area. Evacuate personnel to a safe area. Wear suitable protective equipment.

Environmental precautions: If size of spillage warrants and has contaminated water courses, drains or vegetation – advise appropriate authorities. Evacuate personnel from the area.

7. HANDLING AND STORAGE

Storage: Protect from frost

Handling: Exposure by inhalation or skin contact should be minimised by good industrial hygiene practice. Wear appropriate protective clothing – see exposure control. Safety showers and eye baths should be available in areas where accidental exposure is possible.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Hand protection: Wear PVC or rubber gloves.

Eye protection: Wear chemical goggles. Eye baths should be provided at places where accidental exposure may be possible.

Skin protection: Wear cotton overalls, headgear and rubber boots. Showers should be provided where accidental exposure may occur.

Respiratory protection: Wear self contained breathing apparatus.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Amber Liquid
Odour:	Pungent odour
Boiling Point:	Approximately 100°C at 100kPa
Freezing /Melting Point:	Approximately 0°C
Volatiles:	Water component
Vapour Pressure:	2.37kPa at 20°C (water vapour pressure).
Specific Gravity:	1.12
Water Solubility:	Completely soluble in water
pH:	Corrosive - pH approx 1

10. STABILITY AND REACTIVITY

Conditions to avoid: Stable under normal storage conditions. Reacts with hypochlorites (bleach) to give off toxic fumes of chlorine.

Materials to avoid: Strong oxidising agents. Strong bases.

11. TOXICOLOGICAL INFORMATION

Corrosivity – Prolonged skin contact causes burns. Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system. Irritating to eyes, respiratory system and skin.

12. ECOLOGICAL INFORMATION

Inorganic materials are inherently not biodegradable however those present in this product are either of no known significant environmental hazard or are readily neutralised to form salts.

13. DISPOSAL CONSIDERATIONS

Disposal dangers: Treat as for spillages. Wear appropriate protective clothing – see accidental release measures.

Disposal methods: Treat as for spillages – see accidental release measures. Dispose of any hazardous waste in accordance with waste disposal or water authority regulations.

14. TRANSPORT INFORMATION

ADR/RID	Packing Group II
UN 1789	Hazard ID 80
Class 8	Hydrochloric Acid

IMDG	
EmS Code	F-A S-B
Marine pollutant	NO

IATA	
Packing instruction (Cargo)	813
Packing Instruction (Passenger)	809

15. REGULATORY INFORMATION

Labelling : The product is classified in accordance with 67/548/EEC.

Symbols : C - Corrosive

Risk Phrases: Causes Burns, Irritating to respiratory system.

16. OTHER INFORMATION

Training advice: For all practical purposes, the product is considered to be non-toxic. The product is a permitted food additive.

Recommended uses and restrictions: Regarded as a general purpose food additive.

Data Sources

HSE guidance note EH40 Occupational Exposure Limits (Latest Edition).

ACGIH (Threshold Limit Values and Biological Exposure Indices) 1985-86.

Chemicals (Hazard Information and Packaging for Supply) Regulations 1994 (SI No.3247) (CHIP 2).

IMO Reports and Studies No.35 (The Evaluation of Hazards of Harmful Substances Carried by Ships) 1989 IMDG Code (International Maritime Dangerous Goods Codes) 1990

Control of Substances Hazardous to Health Regulations (SI 1988/1657).

Miscellaneous Food Additives Regulations 1980/

Hazchem List No.6 (Emergency Action Codes and Supplementary Information) 1990.

The United States Food Chemical Codex 3rd Edition 1981.

The MSDS complies with regulation 6 or CHIP 2 which implements Article 27 of the Dangerous Substances Directive (67/548/EEC) as amended by the Seventh Amendment (92/32/EEC), Article 10 of the Dangerous Preparations Directive (88/379/EEC) and the Safety Data Sheets Directive (91/155/EEC as amended by Directive 93/112/EC).

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