

SAFETY DATA SHEET

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1. Identification of Substance/Preparation and Company

Product Name: **Surclean Blackband B128 High Activity Solder Flux**

2. Hazard Identification

Human Health Hazards: Causes burns. Harmful if swallowed.

Physical/Chemical Hazards: Corrosive. No other significant chemical hazard.

Environmental Hazards: Toxic to aquatic organisms, *may cause long term adverse effects in the aquatic environment.

3. Composition/Information on Ingredients

Ingredients	CAS No.	Einecs	Symbol	R-Phrases	% W/W
Zinc Chloride	7646-85-7	231-592-0	C, *N	34, *50/53	23 to 58
Amm. Chloride	2125-02-9	235-186-4	C,	22, 36	1 to 5
Water	N/A	N/A	N/A	N/A	Remainder

Risk Phrases: R22 Harmful if swallowed; R50/53 Toxic to aquatic organisms; May cause long term damage to the aquatic environment

4. First Aid Measures

Effects and Symptoms

- Inhalation:** Inhalation of fumes will cause severe irritation of respiratory system.
- Ingestion:** Corrosive to mouth, throat, and digestive tract resulting in burning of tissue, nausea and vomiting.
- Skin contact:** Severe skin irritation can lead to dermatitis.

First Aid Measures

- Inhalation:** Move to fresh air. If skin irritation persists, call a physician.
- Eye contact:** Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.
- Ingestion:** Rinse mouth, give plenty of water to drink seek medical advice.

5. Fire Fighting Measures

- Flammability:** Non-flammable.
- Extinguisher Media:** Water, dry powder, foam, carbon dioxide (CO₂).
- Protective Equipment:** In the event of fire, wear self-contaminated breathing apparatus.

6. Accidental Release Measures

- Personal precautions:** Wear suitable gloves and eye/face protection.
- Environmental precautions:** Do not let product enter drains. Do not flush into surface water or sanitary sewer system. Contact the proper local authorities if spillage seeps into the water bodies.
- Methods of cleaning up:** Soak up with inert absorbent material (eg. Sand, silica, gel, acid binder, universal binder, sawdust.) Shovel into suitable container for disposal. Do not allow material to contaminate ground water system.

7. Handling and Storage

Handling/Storage: No special storage conditions required.

Packing material: Suitable Polyethylene containers.

Not suitable: Mild steel.

8. Exposure Controls/Personal Protection

Maximum Exposure Limits (MEL's)

Long Term Exposure Limits: (8 hour TWA) 1.00mg/m³

Short Term Exposure Limits: (15 mins) 2.00mg/m³

Personal Protection Equipment: Protective suit, rubber or plastic gloves and goggles.

9. Physical and Chemical Properties

Form: Aqueous

Colour: Water white

Odour: None

Density: 1.28

Specific gravity (H₂O=1) 1.51(46%), 1.71(58%), 2.0(72%)

pH: 1 (Acidic)

Solubility in water: Completely miscible

10. Stability and Reactivity

Stability: Stable

11. Toxicological Information

Main Constituent: Zinc Chloride Anhydrous(no data available for solutions).

Acute Toxicity

Oral: LD50/oral/rat = 350mg/kg. Harmful if swallowed.

Inhalation: TCLo, Inhalation, human = 4800mg/m³/3H. Causes pulmonary changes.

Eye Irritation: Severe eye irritation.

Skin Irritation: Severe skin irritation.

Carcinogenicity: Questionable carcinogen with experimental tumorigenic effects.

Mutagenicity: Human mutation data reported. Mutation Cytogenic analysis, Human/Lymphocytes = 300 micromol/L.

12. Ecological Information

Persistence and degradability: Not Biodegradable-highly water contaminating.

Ecotoxicity effects: Known to be toxic to aquatic organisms – no data available.

13. Disposal Considerations

Methods of disposal: Must be reconditioned or disposed of as a special waste according to the Control of Pollution (Special Waste) Regulations 1980.

14. Transport information

UN Number: 1760

IMDG Class: 8 - Corrosive. Marine pollutant

ADR Item number: 2801 22 (c)

IATA-DGR Class: 8–Corrosive UN Packing Group: III

Trem Card number: 80GC9-III



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15. Regulatory Information

Classification: C-Corrosive, *N – Dangerous to the Environment.

16. Other Information

Handle in accordance with good industrial hygiene and safety practices, information given above is based on our present knowledge and is believed to be reliable.

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