

MATERIAL SAFETY DATA SHEET

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AQUA- FLUX

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1. PRODUCT INGREDIENTS

<u>Chemical Name</u>	<u>CAS No.</u>	<u>PEL</u>	<u>Hazard</u>
Ammonium Chloride	12125-02-9	10mg/m ²	ACGIH
Glycerine	56-81-5	10mg/m ²	ACGIH
Hydrobromic Acid	7664-38-2	1.0mg/m ¹	ACGIH

Remaining ingredients, if any, are classified and claimed as trade secret.

N/A – Not Applicable

N/A – Not Established

2. PHYSICAL DATA

Material is SEMI-SOLID	Appearance and Odor OPAGUE WHITE TO YELLOWISH – NO ODOR		
Boiling Point N/E	Specific Gravity 1.014	Vapor Density N/E	Vapor Pressure n/e
Solubility in Water APPRECIABLE	Evaporation Rate <1	% Volatile N/E	

3. FIRE AND EXPLOSION DATA

Flash Point
N/A

Flammable Limits
N/A

Extinguishing Media-
Water or foam

Special Fire Fighting Procedures-
Full protective equipment required. May release ammonia and HCl fumes. Toxic metal halide fumes produced.

Unusual Fire and Explosion Hazards-
Dense smoke may be generated.

4. HEALTH HAZARD INFORMATION

Target Organ Statement:

WARNING: Causes burns to skin, eyes and respiratory system. MAY BE FATAL IS SWALLOWED OR INHALED.

Effects of Chronic Exposure:

Irritation to skin (scarring), eyes and respiratory system. Possible liver and kidney effects.

Effects of Acute Overexposure:

Swallowing-can cause damage to digestive system. Corrosive to mucous membranes.

Skin Absorption-None currently known.

Inhalation-Irritation to respiratory system. Coughing and sneezing. Existing lung disorders will be aggravated.

Skin Contact-Dermatitis, possible chemical burns, corrosive to skin. Existing disorders will be aggravated.

Eye Contact-Irritation to eyes, tearing, burn of eye surfaces, corrosive to eyes. **MAY CAUSE BLINDNESS.**

5. FIRST AID PROCEDURES

Swallowing-

Call a physician at once or your Poison Control Center. Corrosive to mucous membranes.

Skin-

Promptly flush with water to remove all residues. If rash or burn develops, consult a physician. Material is corrosive.

Inhalation-

Remove to fresh air. If fumes are inhaled, call a physician.

Eyes-

Flush with water for at least 15 minutes to remove all residues. **GET MEDICAL HELP NOW! BLINDNESS CAN RESULT!**

6. PRECAUTIONS/PROCEDURES

Spills:

Contain spill, absorb, sweep up and dispose. Flush area to chemical sewer.

Waste Disposal Method:

Dispose of in accordance with all local, state and federal regulations.

Handling & Storage:

Store flux at ambient conditions. Wash thoroughly after handling to remove all residues.

Other Precautions:

Do not breathe fumes. Professionally wash contaminated clothing before reuse. Existing lung disorders will have increased toxic susceptibility.

Respiratory Protection:

If the workstation is not properly ventilated to exhaust all fumes and vapors, use a NIOSH approved mask.

Ventilation:

Maintain airflow away from user to remove all fumes and vapors, so that the PEL is never exceeded. Adhere to environmental regulations for exhausts.

Protective Gloves:

Chemical and acid impervious.

Eye Protection:

Chemical tight safety goggles. **DO NOT** wear contact lenses.

Other Protective Equipment:

Full protective equipment normally used in a soldering operation so as to prevent any contact.

7. REACTIVITY DATA

Stability: STABLE

Conditions to Avoid: NONE

Hazardous Polymerization: WILL NOT OCCUR

Incompatibility: STRONG NITRIC, SULFURIC ACID, CYANIDE

Hazardous Decomposition: HYDROCHLORIC/BROMIC ACID AND AMMONIA

8. TRANSPORTATION INFORMATION

Proper Shipping Name:	Corrosive Liquid, N.O.S. (Hydrobromic Acid)
Hazard Class:	Class 5
ID & Packing Group Number:	UN 1760, PG III
ERG Guide Number:	60

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