



# MATERIAL SAFETY DATA SHEET

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 CHEMICAL NAME: Cryolite

 COMMON/TRADE NAME: CRYOFLUX® SC-200/SC-325  
AG-200/AG-325

 DATE: September 3, 2002

 SUPERSEDES: February 1, 2001
**SECTION I — HAZARDOUS INGREDIENTS**

Hazardous Components (Specific Chemical Identity)	CAS #	OSHA PEL	ACGIH TLV
Sodium Aluminum Fluoride	15096-52-3	2.5mg/M <sup>3</sup> TWA (as F)	2.5mg/M <sup>3</sup> TWA (as F)

**SECTION II — PHYSICAL/CHEMICAL CHARACTERISTICS**

Melting Point	1800° F	Specific Gravity (H <sub>2</sub> O = 1)	3.0
Solubility	(Water) Slight	Other	
Appearance and Odor	Off-white powder. No odor.		

**SECTION III — REACTIVITY DATA**

Stability:	Unstable	Conditions to Avoid
	Stable	X

 Incompatibility (Materials to Avoid) Acids.

 Hazardous Decomposition or Byproducts Reacts with acids to evolve hydrogen fluoride.

Hazardous Polymerization:	May Occur	Conditions to Avoid
	Will Not Occur	X

**SECTION IV — FIRE AND EXPLOSION HAZARD DATA**

 Flash Point (Method Used) None.

Extinguishing Media }

 Special Fire Fighting Procedures } Not a fire or explosion hazard.

Unusual Fire and Explosion Hazards }

**SECTION V — HEALTH HAZARD DATA**

Route(s) of Entry Inhalation. Ingestion.

Health Hazards (Acute and Chronic) Toxic. Fluorides may cause irritation of the nasal passages, dryness and nose bleeds. Longtime overexposure may result in sclerosis of the bones.

Carcinogenicity None known.

Signs and Symptoms of Overexposure Acute: Irritation of the respiratory system.  
Chronic: Loss of appetite, vomiting and osteosclerosis.

Emergency and First Aid Procedures If swallowed, telephone the local Poison Control Center immediately. On contact with skin, wash with soap and water. On contact with eyes, flush eyes thoroughly with water for 15 minutes. On inhalation of excessive dust, move to fresh air. Seek medical attention if problems persist.

**SECTION VI — SPECIAL PROTECTION AND PRECAUTIONS**

Ventilation and Engineering Controls Appropriate ventilation.

Personal Protective Equipment NIOSH-certified respirator, suitable gloves and ANSI-approved eye protection. Also, long-sleeve shirt buttoned at neck and wrists.

Safe Handling, Use and Storage Normal handling. Store in dry, sealed containers in area free from acid contact.

Protective Measures During Repair & Maintenance Use protective equipment listed above.

Other

**SECTION VII — SPILL OR LEAK PROCEDURES**

Steps to Be Taken in Case Material is Released or Spilled Use normal clean-up procedure and place in dry, sealed containers. Flush area of spill/release with water to insure clean-up.

Waste Disposal Method Follow federal, state and local regulations.

Other Precautions Follow all other precautions and data noted herein.

NOTE: The data contained in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. The information herein is based on technical data that Chemalloy believes to be reliable. It is intended to be used by persons with technical skill. Prior to use, users shall conduct their own investigation(s) to determine the suitability of the information for their particular purpose, and appropriate warnings and safe handling procedures should be provided to handlers and users. Any use of this data must be determined by the user to be in accordance with federal, state and local laws and regulations. Nothing herein is to be taken as a license to operate under or a recommendation to infringe any patents. Since conditions of use and suitability are beyond Chemalloy's control, any risks of use and suitability are therefore assumed by the user, and Chemalloy expressly disclaims all warranties, including warranties of merchantability and fitness for a particular purpose, express or implied, in respect to the use or suitability of the material.