Material Safety Data Sheet

Synthetic Cryolite

Section I. Chemical Product and Company Identification

- ***Supplier:*** Henan Sinotech Import&Export Corporation Limited
  - No.260, Dongming Road
  - Zhengzhou,450008,Chia
  - (0371)-8618-1678
- ***Chemical Name:*** Synthetic Cryolite
- ***Synonym:*** Cryolite, Sodium Aluminum Fluoride, Sodium fluoaluminate
- ***CAS Number:*** 13775-53-6
- ***Chemical Formula:*** $Na_3(AlF_6)$

Section II. Composition and Information on Ingredients

Material	CAS#	%
Sodium Aluminum Fluoride	13775-53-6	100%

Section III Hazards Identification:

- ***Accute Health Effects:*** Poison by ingestion. Large doses of overexposure cause severe nausea, vomiting, diarrhea, abdominal burning and cramp-like pains. Contact with skin and eyes may cause irritation. Inhalation can cause irritation to mucous membranes and respiratory tracts.
- ***Chronic Health Effects:*** Overexposure may cause fluorosis, which is a condition affecting the bones and teeth.
- ***Carcinogenicity::*** This product is not listed by NTP, IARC or regulated as a Carcinogen by OSHA.

Section IV. First Aid Measures

- ***First Aid For Eye:*** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.
- ***First Aid For Skin:*** In case of contact, flush skin with water. Wash clothing before reuse. Call a physician if irritation occurs.
- ***First Aid For Inhalation:*** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.
- ***First Aid For Ingestion:*** If swallowed, call a physician immediately.

Section V. Fire and Explosion Data

- ***Flammability:*** Non-Flamable
- ***Flash Points:*** Not Applicable
- ***Auto-Ignition:*** Not Applicable
- ***Flammable Limits:*** Not Applicable
- ***Extinguishing Media:*** Carbon Dioxide, dry chemical powder, or appropriate form.
- ***Fire Fighting Procedure:*** If excessive smoke or fumes are encountered, wear self contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
- ***Fire/Explosion Hazards:*** Emits toxic fumes carbon monoxide, carbon dioxide and hydrogen fluoride under fire conditions.

Section VI. Accidental Release Measures

- ***Spill Or Leak Procedures:*** Utilize recommended protective clothing and equipment. Clean spills in a manner that does not disperse dust into the air. Spill area can be washed with water. Collect wash water for approved disposal. Keep from entering water or ground water.

Section VII. Handling and Storage

- ***Storage Temperatures:*** Store at ambient temperature
- ***Shelf Life:*** Unlimited in tightly closed container.
- ***Special Sensitivity:*** None
- ***Handling/Storage Precautions:*** Avoid breathing dust. Avoid getting in eyes or on skin. Wash thoroughly after handling. Store in a dry place away from direct sunlight, heat and incompatible materials (see Section X). Reseal containers immediately after use. Store away from food and beverages.

Section VIII. Exposure Controls/Personal Protection

- ***Eye Protection:*** Safety glasses or goggles.
- ***Skin Protection:*** PVC gloves with impervious boots, apron or coveralls. Employees should wash their hands and face before eating, drinking or using tobacco products.
- ***Respirator:*** Work ambient concentrations should be monitored and if the recommended exposure limit is exceeded, a NIOSH/MSHA approved dust respirator must be worn.
- ***Ventilation:*** Use local ventilation if dusting is a problem, to maintain air levels below the recommended exposure limit.
- ***Additional Protective Measures:*** Emergency showers and eye wash stations should be available. Educate and train employees in the safe use and handling of hazardous chemicals.

Section IX. Physical and Chemical Properties

- ***Physical Form:*** Powder
- ***Color:*** White
- ***Odor:*** Odorless
- ***Molecular Weight:*** 209.94
- ***Boiling Point:*** N/A
- ***Melting/Freezing Point:*** 1000°C
- ***Solubility In Water:*** Insoluble
- ***Specific Gravity:*** 2.95

Section X. Stability And Reactivity

- ***Stability:*** Stable
- ***Hazardous Polymerization:*** Will Not occur
- ***Incompatibilities:*** Acids and Water, strong oxidizers
- ***Instable Conditions:*** Excessive temperatures (see Incompatibilities).
- ***Decomposition Temperature:*** N/A
- ***Decomposition products:*** Carbon monoxide, carbon dioxide, and hydrogen fluoride.

Section XI. Toxicological Infomation

- ***RTECS Number:*** WA962500

- ***Routes of Exposure:*** Eye contact. Ingestion. Inhalation. Skin contact.
- ***Toxicity Data:*** LD50- rat- 200mg/Kg
- ***Chronic Toxic Effects:*** Overexposure may cause fluorosis, which is a condition affecting the bones and teeth.
- ***Acute Toxic Effects:*** Poison by ingestion. Large doses of overexposure cause severe nausea, vomiting, diarrhea, abdominal burning and cramp-like pains. Contact with skin and eyes may cause irritation. Inhalation can cause irritation to mucous membranes and respiratory tracts.

Section XII. Ecological Information

- ***Ecotoxicity:*** Not available.

Section XIII. Disposal Considerations

- ***Waste Disposal Method:*** Waste disposal should be in accordance with existing federal, state and local environmental regulations.

Section XIV. Transportation Information

- ***Proper Shipping Name:*** Cryolite
- ***UN Number:*** N/A
- ***Class:*** N/A
- ***P.G.:*** N/A
- ***Label Code:*** N/A

Section XV. Regulatory Information

- ***OSHA Status:*** This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.
- ***TSCA Chemical Inventory:*** This compound is on the EPA Toxic Substance Control Act (TSCA) inventory List
- ***California Proposition 65:*** To the best of our knowledge, this product contains no levels of listed substances, which the state of California has found to cause cancer, birth defects or other reproductive effects.
- ***SARA 313 Title III:***
  - Section 302 ExtremelyHazardous Substances: None
  - Section 311/312 Hazardous Categories: None
  - Section 313 Toxic Chemicals: None

Section XVI. Other Information

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