

5140

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MATERIAL SAFETY DATA SHEET

DATE: 1-9-87

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

| | | |
|--|---|---|
| CAS NO. 15096-52-3 | SECTION I | EPA NO. A-562-7753 |
| MANUFACTURER'S NAME GREAT LAKES MINERALS CO. | | EMERGENCY TELEPHONE NO. 313/649-3700 |
| CHEMICAL NAME AND SYNONYMS SODIUM HEXAFLUOROALUMINATE | TRADE NAME AND SYNONYMS SYNTHETIC CRYOLITE (Synthetic) | |
| CHEMICAL FAMILY METAL HALOGEN | FORMULA Na ₃ AlF ₆ | |

| SECTION II - HAZARDOUS INGREDIENTS | | | | | |
|---|---|-------------|---|-----|----------------------|
| PAINTS, PRESERVATIVES, & SOLVENTS | % | TLV (Units) | ALLOYS AND METALLIC COATINGS | % | TLV (Units) |
| PIGMENTS | | N/A | BASE METAL | | N/A |
| CATALYST | | N/A | ALLOYS | | N/A |
| VEHICLE | | N/A | METALLIC COATINGS | | N/A |
| SOLVENTS | | N/A | FILLER METAL PLUS COATING OR CORE FLUX | | N/A |
| ADDITIVES | | N/A | OTHERS Na ₃ AlF ₆ | 99+ | 2.5mg/m ³ |
| OTHERS | | | | | |
| HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES | | | | % | TLV (Units) |
| | | | | | N/A |
| | | | | | |
| | | | | | |
| | | | | | |

| SECTION III - PHYSICAL DATA | | | |
|-----------------------------|--|---------------------------------------|---|
| BOILING POINT (°F) | N/A | SPECIFIC GRAVITY (H ₂ O=1) | - |
| VAPOR PRESSURE (mm Hg.) | N/A | PERCENT VOLATILE BY VOLUME (%) | - |
| VAPOR DENSITY (AIR=1) | N/A | EVAPORATION RATE (AIR=1) | - |
| SOLUBILITY IN WATER | insoluble | | |
| APPEARANCE AND ODOR | WHITE TO LIGHT-GRAY CRYSTALLINE POWDER | | |

| SECTION IV - FIRE AND EXPLOSION HAZARD DATA | | | |
|---|------|------------------|---------|
| FLASH POINT (Method used) | N/A | FLAMMABLE LIMITS | Lel Uel |
| EXTINGUISHING MEDIA | N/A | | |
| SPECIAL FIRE FIGHTING PROCEDURES | NONE | | |
| UNUSUAL FIRE AND EXPLOSION HAZARDS | NONE | | |

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE
 2.5 mg/m³ (as fluoride)

EFFECTS OF OVEREXPOSURE
 ACUTE - RESPIRATORY IRRITATION: POSSIBLE NOSE BLEED OR VOMITING. CHRONIC -

AGGRAVATES BRONCHITIS/ASTHMA: INCREASED BONE DENSITY

EMERGENCY AND FIRST AID PROCEDURES
 GENERALLY NOT APPLICABLE UNLESS LETHAL DOSE IS SWALLOWED. FOR ACUTE POISONING,
 ORAL ADMINISTRATION OF LIME WATER, INTRAVENOUS INFUSION OF GLUCOSE AND INTRAVENOUS
 INJECTIONS OF CALCIUM GLUCONATES.

SECTION VI - REACTIVITY DATA

| | | | |
|--------------------------------------|----------------|---|---------------------|
| STABILITY | UNSTABLE | | CONDITIONS TO AVOID |
| | STABLE | X | |
| INCOMPATIBILITY (Materials to avoid) | | | |
| NONE | | | |
| HAZARDOUS DECOMPOSITION PRODUCTS | | | |
| NONE | | | |
| HAZARDOUS POLYMERIZATION | MAY OCCUR | | CONDITIONS TO AVOID |
| | WILL NOT OCCUR | X | |

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
 PRODUCT SHOULD BE SWEEPED UP.

WASTE DISPOSAL METHOD
 BURY WASTE

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)
 AIR PURIFYING RESPIRATOR WITH PARTICULATE FILTER.

| | | |
|-----------------------------------|--|--------------------------------|
| VENTILATION | LOCAL EXHAUST AS REQUIRED TO MAINTAIN EXPOSURE AT OR MECHANICAL (General) BELOW TLV. | SPECIAL |
| | | OTHER |
| PROTECTIVE GLOVES NOT REQUIRED | | EYE PROTECTION NOT REQUIRED |
| OTHER PROTECTIVE EQUIPMENT | | |

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
 STORE IN ORIGINAL CLOSED CONTAINER OR BIN AND IN A COOL DRY AREA.

OTHER PRECAUTIONS