

SAFETY DATA SHEET

1. Identification				
Product identifier	SYNTHETIC CRYOLITE			
Other means of identification				
SDS number	189			
Issue date	05-06-2014			
Other means of identification				
Revision date	05-06-2014			
Version #	09			
Synonym(s)	Cryolite * Sodium aluminum fluoride * Trisodiu	um hexafluoroaluminate		
Recommended use	Electrolyte for aluminum reduction cells			
Recommended restrictions	For industrial use only.			
Manufacturer/Importer/Supplier/I	Distributor information			
Manufacturer				
	Alcoa Inc.			
	201 Isabella Street Pittsburgh PA 15212-5858 LISA			
	Health and Safety Tel: 1-412-553-4649			
	Health and Safety Fax: 1-412-553-4822			
	Health and Safety Email: accmsds@alcoa.co	om		
Emergency Information:	USA: CHEMTREC: +1-703-527-3887 +1-800	-424-9300		
	ALCOA: +1-412-553-4001 (24 Hour Emerger	juages spoken), acy Telephone, only English spoken)		
Website:	For a current Safety Data Sheet, refer to Alco	a websites: www.alcoa.com		
	or internally at my.alcoa.com EHS Community			
2 Hazard(a) identification				
Physical hazards	Not classified.			
Health hazards	Acute toxicity, inhalation	Category 4		
	Specific target organ toxicity, repeated exposure	Category 1 (bones, lungs)		
Environmental hazards	Hazardous to the aquatic environment, long-term hazard	Category 2		
OSHA defined hazards	Not classified.			
Label elements				
	\wedge \wedge \wedge			
Signal word	Danger			
Hazard statement	Harmful if inhaled. Causes damage to organs through prolonged or repeated exposure by inhalation. Toxic to aquatic life with long lasting effects.			
Precautionary statement				
Prevention	Do not breathe dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment.			
Response	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. Get medical advice/attention if you feel unwell. Collect spillage.			
Storage	Keep dry. Store in a dry place. Store away fro	m incompatible materials.		
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.			
Hazard(s) not otherwise	None known.			

None.

classified (HNOC)

Supplemental information

Specific hazards

Non-combustible. Not an explosion hazard.

May cause harm to breastfed babies. Direct contact: Can cause irritation of the eyes and skin. Dust: Can cause irritation of the upper respiratory tract.

Additional health effects from elevated temperature processing (e.g., if heated to decomposition): Vapors: Can cause severe irritation of the respiratory tract. Acute exposure: Can cause the accumulation of fluid in the lungs. Effects can be delayed up to 24 hours.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Hydrogen fluoride gas can be evolved above 930°F (500°C) in the presence of water vapor.

3. Composition/information on ingredients

Composition comments	Complete composition is provided below and may include some components classified as
	non-hazardous.

Substances

ns CAS number	%
13775-53-6	>91
CAS number	%
7664-39-3	
	CAS number 13775-53-6 CAS number 7664-39-3

Present as impurity: Chiolite (1302-84-7), <5% and Aluminium oxide (1344-28-1), <2%.

Cryolite may contain small amounts (<1%) of other metal fluorides: Calcium fluoride (7789-75-5) and Magnesium fluoride (7783-40-6). Loss on ignition 2-6%%

Additional compounds which may be formed (during decomposition) are listed in Section 8.

4. First-aid measures

Eye contact	Rinse eyes with plenty of water or saline for at least 15 minutes. Consult a physician.		
Skin contact	Wash with soap and water for at least 15 minutes. Get medical attention if irritation develops or persists.		
Inhalation	Remove to fresh air. Check for clear airway, breathing, and presence of pulse. If breathing is difficult, provide oxygen. Loosen any tight clothing on neck or chest. Provide cardiopulmonary resuscitation for persons without pulse or respirations. Consult a physician.		
Ingestion	If swallowed, dilute by drinking water. Recommend quantities up to 30 mL (~1 oz.) in children and 250 mL (~9 oz.) in adults. Never give anything by mouth to a victim who is unconscious or is having convulsions. Do NOT induce vomiting. Call a physician immediately.		
Most important	Direct contact: Can cause irritation of the eyes and skin.		
symptoms/effects, acute and delayed	Dust: Can cause irritation of the upper respiratory tract. Chronic exposure: Can cause fluoride deposition in bones and cartilage (fluorosis).		
	Additional health effects from elevated temperature processing (e.g., if heated to decomposition): Vapors: Can cause severe irritation of the respiratory tract. Acute exposure: Can cause the accumulation of fluid in the lungs (pulmonary edema). Effects can be delayed up to 24 hours.		
	Ingestion: Can cause irritation of the gastrointestinal tract. This product may be harmful or fatal if swallowed in large quantities.		
Indication of immediate medical attention and special treatment needed	If breathing is difficult, give oxygen. Symptoms may be delayed.		
General information	If exposed or concerned: get medical attention/advice.		
5. Fire-fighting measures			
Suitable extinguishing media	Use fire fighting methods and materials that are appropriate for surrounding fire.		
Unsuitable extinguishing media	None known.		
Specific hazards arising from the chemical	Hydrogen fluoride gas can be evolved above 930°F (500°C) in the presence of water vapor.		
Hazardous combustion products	No hazardous decomposition products are known.		
Special protective equipment and precautions for firefighters	Firefighters should wear NIOSH approved, positive pressure, self-contained breathing apparatus and full protective clothing when appropriate.		
Fire-fighting equipment/instructions	Use standard fire fighting procedures and consider the hazards of other involved materials.		
General fire hazards	Non-combustible. Not an explosion hazard.		

6. Accidental release measures

Personal precautions, protective equipment and	Avoid generating dust. Avoid contact with skin and eyes. Use personal protection recommended in Section 8 of the SDS.	
emergency procedures		
Evacuation procedures	Keep unnecessary personnel away.	
Methods and materials for containment and cleaning up	Clean up in accordance with all applicable regulations. Avoid generating dust. Use dry cleanup procedures. Pick up mechanically. Do not allow this material to drain into sewers/water supplies. For waste disposal, see section 13 of the SDS.	
Environmental precautions	Do not allow to enter drains, sewers or watercourses.	
7. Handling and storage		
Handling	Avoid generating dust. Avoid contact with skin and eyes. Avoid contact during pregnancy/while nursing. Wash thoroughly after handling. Wear appropriate personal protective equipment. When using, do not eat, drink or smoke. Wet bath should not be added to an aluminum reduction cell.	

Storage

Avoid release to the environment. Keep material dry. Do not store outside unless covered and protected against precipitation.

8. Exposure controls/personal protection

Occupational exposure limits

Components	Туре	Value	Form
Cryolite (Trisodium hexafluoroaluminate) (CAS 13775-53-6)	TWA	2.5 mg/m3	(as F)
Decomposition	Туре	Value	Form
Hydrogen fluoride (CAS 7664-39-3)	TWA	3 ppm	(as F)
US. OSHA Table 2-1 Limits for Air Conta Material	Type) Value	
SYNTHETIC CRYOLITE US. OSHA Table Z-2 (29 CFR 1910.1000)	PEL	2.5 mg/m3	
Material	Туре	Value	Form
SYNTHETIC CRYOLITE	TWA	2.5 mg/m3	Dust.
ACGIH Components	Туре	Value	Form
Cryolite (Trisodium hexafluoroaluminate) (CAS 13775-53-6)	TWA	2.5 mg/m3	(as F)
Decomposition	Туре	Value	Form
Hydrogen fluoride (CAS 7664-39-3)	Ceiling	2 ppm	(as F) (Skin)
	TWA	0.5 ppm	(as F) (Skin)
Alcoa Material	Туре	Value	Form
	TWΔ	0.5 mg/m3	(as F)
Components	Туре	Value	Form
Cryolite (Trisodium hexafluoroaluminate) (CAS	TWA	0.5 mg/m3	(as F)
Decomposition	Туре	Value	Form
Hydrogen fluoride	STEL	1.64 mg/m3	Peak (as F) (Skin)
(UAS /664-39-3)	TWA	2 ppm 0.5 mg/m3	Peak (as F) (Skin) (as F) (Skin)
oosure guidelines			
US ACGIH Threshold Limit Values: Skin	designation		
Hydrogen fluoride (CAS 7664-39-3) US. California Code of Regulations, Title	Can be al e 8, Section 5155. Airborne C	bsorbed through the skin.	
HYDROGEN FLUORIDE, AS F (CAS	7664-39-3) Can be at	bsorbed through the skin.	
neral Use persor	nal protective equipment as rec	quired.	

Appropriate engineering controls	Use with adequate ventilation to meet the limits listed in Section 8.		
Individual protection measure	es, such as personal protective equipment		
Eye/face protection	Wear safety glasses with side shields. Use tight fitting goggles if excessive levels of dust are generated.		
Skin protection			
Hand protection	Wear impervious gloves to avoid direct skin contact.		
Other	Wear appropriate gloves and clothing to avoid direct skin contact. The need for personal protective equipment should be based upon a hazard assessment and recommendations from health / safety professionals. Wear chemical protective equipment that is specifically recommended by the manufacturer.		
Respiratory protection	Use NIOSH-approved respiratory protection as specified by an Industrial Hygienist or other qualified professional if concentrations exceed the limits listed in Section 8. Suggested respiratory protection: N95, Acid gas cartridge for Hydrogen fluoride gas.		
Thermal hazards	Not applicable.		
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.		

Solid, granular to powder.

9. Physical and chemical properties

Form

Color	Light brown.
Odor	Odorless
Odor threshold	Not applicable
рН	Not applicable
Melting point/freezing point	1832 °F (1000 °C)
Initial boiling point and boiling range	Not determined
Flash point	Not applicable
Evaporation rate	Not applicable
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or expl	losive limits
Flammability limit - upper (%)	Not applicable
Flammability limit - lower (%)	Not applicable
Explosive properties	Not applicable.
Dust explosion properties	
St class	Not applicable.
Vapor pressure	Not applicable
Vapor density	Not applicable
Relative density	Not determined
Solubility(ies)	0.6 g/l
Partition coefficient (n-octanol/water)	Not applicable. Not applicable
Auto-ignition temperature	Not applicable
Decomposition temperature	Not determined
Viscosity	Not available.
10. Stability and reactivity	
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Stable under normal conditions of use, storage, and transportation.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Heat and moisture.
Incompatible materials	Contact with strong acids releases hydrogen fluoride.
Hazardous decomposition products	Hydrogen fluoride Hydrogen fluoride gas can be evolved above 930°F (500°C) in the presence of water vapor.

11. Toxicological information

Information on likely routes of exposure

Eye contact	Direct contact: Can cause irritation.
Skin contact	Direct contact: Can cause irritation.
Inhalation	Chronic exposure: Can cause fluoride deposition in bones and cartilage (fluorosis). Associated with asthma.
	Additional health effects from elevated temperature processing (e.g., if heated to decomposition): Vapors: Can cause severe irritation of the respiratory tract. Acute overexposure: Can cause the accumulation of fluid in the lungs (pulmonary edema). Effects can be delayed up to 24 hours. Harmful if inhaled. Can cause irritation of the gastrointestinal tract.
Ingestion	Can cause irritation of the gastrointestinal tract. This product may be harmful or fatal if swallowed in large quantities.
Symptoms related to the	Dust from processing: Irritating to eyes, respiratory system and skin.
physical, chemical and toxicological characteristics	Chronic exposure: Can cause fluoride deposition in bones and cartilage (fluorosis). Associated with asthma.
	Additional health effects from elevated temperature processing (e.g., if heated to decomposition):

Additional health effects from elevated temperature processing (e.g., if heated to decomposition) Vapors: Can cause severe irritation of the respiratory tract. Acute exposure: Can cause the accumulation of fluid in the lungs (pulmonary edema). Effects can be delayed up to 24 hours.

Health effects associated with ingredients

Cryolite: Can cause irritation of eyes, mucous membranes, skin and upper respiratory tract. Chronic overexposures: Associated with asthma. Can cause fluoride deposition in bones and cartilage (fluorosis) as evidenced by x-ray changes and can be accompanied by stiffness of the joints. May cause harm to breastfed babies.

Fluorides: Can cause irritation of eyes, mucous membranes, skin and respiratory tract. Chronic overexposures: Associated with asthma. Can cause fluoride deposition in bones and cartilage (fluorosis) as evidenced by x-ray changes and can be accompanied by stiffness of the joints. May cause harm to breastfed babies.

Alumina (aluminum oxide): Low health risk by inhalation. Generally considered to be biologically inert.

Health effects associated with compounds formed during processing

Can generate the following when heated to decomposition:

Hydrogen fluoride: Can cause severe irritation of the eyes, mucous membranes, skin and respiratory tract. Acute overexposures: Can cause cough, shock, the accumulation of fluid in the lungs (pulmonary edema) and death. Effects can be delayed up to 24 hours.

Information on toxicological effects

Acute toxicity

Acute toxicity				
Components	Species	Test Results		
Cryolite (Trisodium hexafluoroaluminate) (CAS 13775-53-6)				
Acute				
Dermal				
AT_LD50	Rat	> 2000 mg/kg		
Oral				
AT_LD50	Rat	> 1600 mg/kg		
Decomposition	Species	Test Results		
Hydrogen fluoride (CAS 7664-	-39-3)			
Acute				
Inhalation				
LC50	Guinea pig	3.54 mg/l, 15 Minutes		
	Monkey	1780 mg/l, 1 Hours		
	Mouse	500 mg/l, 1 Hours		
	Rat	4970 mg/l, 5 Minutes		
		2689 mg/l, 15 Minutes		
		2042 mg/l, 30 Minutes		
		1278 mg/l, 1 Hours		
Skin corrosion/irritation	Non-corrosive.			

Serious eye damage/eye irritation	May irritate eyes.		
Respiratory or skin sensitization	l		
Respiratory sensitization	Not available.		
Skin sensitization	This product is not expected to cause skin sensitization.		
Germ cell mutagenicity	Not classified. Based on available data, the classification criteria are not met.		
Carcinogenicity	Does not present any cance	r hazards.	
ACGIH Carcinogens			
Cryolite (Trisodium hexafluoroaluminate) (CAS 13775-53-6)		A4 Not classifiable as a human carcinogen.	
Hydrogen fluoride (CAS 7664-39-3)		A4 Not classifiable as a human carcinogen.	
IARC Monographs. Overall E	Evaluation of Carcinogenicit	У	
Hydrogen fluoride (CAS 7664-39-3)		3 Not classifiable as to carcinogenicity to humans.	
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects. May cause harm to breastfed babies.		
Specific target organ toxicity - single exposure	Not available.		
Specific target organ toxicity - repeated exposure	Causes damage to organs through prolonged or repeated exposure by inhalation.		
Aspiration hazard	Not an aspiration hazard.		
Chronic effects	Can cause fluoride deposition in bones and cartilage (fluorosis) as evidenced by x-ray changes. May cause lung damage.		

12. Ecological information

Ecotoxicity

Components		Species	Test Results	
Cryolite (Trisodium hexafluo	roaluminate) (CA	S 13775-53-6)		
Algae	EC50	Algae	8.8 mg/l, 72 hours	
Crustacea	EC50	Daphnia	5 mg/l, 48 hours	
Other	LC50	Freshwater fish	> 100 mg/l, 96 hours	
Aquatic				
Fish	LC50	Brown trout (Salmo trutta)	125 mg/l, 48 hours	
Decomposition		Species	Test Results	
Hydrogen fluoride (CAS 766	4-39-3)			
Aquatic				
Fish	LC50	Brown trout (Salmo trutta)	125 mg/l, 48 hours	
ersistence and degradability	The product s	The product solely consists of inorganic compounds which are not biodegradable.		
oaccumulative potential	Bioaccumulation is unlikely to be significant because of the low water solubility of this product.			
obility in soil	No data available.			
ther adverse effects	None known.			

13. Disposal considerations

Disposal instructions	Reuse or recycle material whenever possible. If reuse or recycling is not possible, disposal must be made according to local or governmental regulations.		
Local disposal regulations	Dispose in accordance with all applicable regulations.		
Waste codes	RCRA Status: Not federally regulated in the U.S. if disposed of "as is." RCRA waste codes other than described here may apply depending on use of the product. Status must be determined at the point of waste generation. Refer to 40 CFR 261 or state equivalent in the U.S.		
US RCRA Hazardous Waste	U List: Reference		
Hydrogen fluoride (CAS 7664-39-3)		U134	
Waste from residues / unused products	Dispose of in acco	rdance with local regulations.	

Contaminated packaging Dispose of in accordance with local regulations.

14. Transport information

General Shipping Notes

• For international shipments, excluding the U.S. & Canada, use the HTS code 2826.30.0000. Use HTS code 3824.90.3900 for shipments involving the U.S. and 3824.90.0090 for shipments involving Canada.

DOT

Basic Shipping Information

ID number	-
Proper shipping name	Not regulated
Hazard class	-
Packing group	-
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DOT Specific Notes

• This material is regulated differently when transported to, from or within a country that is required to comply with the ADR. Refer to the destination country's version of the SDS for transportation information.

• This description only applies for U.S. domestic shipment by motor, rail or vessel shipments, or U.S. domestic air if shipped under DOT regulations via UPS or FEDEX.

• Description may be used when not regulated domestically (e.g., US DOT, TDG Canada) and materials shipped within or between such countries via road or rail and does not involve transport by international water or air.

• When "Not regulated", enter the proper freight classification, SDS Number and Product Name onto the shipping paperwork.

• Despite OSHA HCS Environmental hazard classification in Section 2 of this SDS, Trisodium hexafluoroaluminate (Cryolite) is not listed in Appendix B to 49 CFR 172.101, therefore the material is not a USDOT Marine Pollutant.

Transport in a dry and covered sift-proof packaging or receptacle. Outside storage during transit permitted on pads (with a base of concrete or other impervious material) that are covered and have secondary containment.

• Trisodium hexafluoroaluminate (Cryolite) is not listed on Table 1, Appendix A to 49 CFR 172.101, the USDOT List of Hazardous Substances and Reportable Quantities.

• Standard Transportation Commodity Code (STCC): 28-196-67.

DOT Alternate Basic Shipping Description #1

Basic Shipping Information

ID number	UN3077
Proper shipping name	Environmentally hazardous substance, solid, n.o.s.
Technical name	TRISODIUM HEXAFLUOROALUMINATE
Hazard class	9
Packing group	III
Environmental hazards:	

Marine pollutant

Marine Pollutant (EHS-aquatic environment)

Notes for Alternate DOT Description

• Applies to shipments to, from and within countries regulated by European Agreement concerning Carriage of Dangerous Goods by Road (ADR) according to Chapter 2.2.9.1.10. This mixture has been designated as N: Dangerous to the Environment and further classified as R51/53: Toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment. IBC08, UN packaging (e.g. flexible, lined Super Sacks®) authorized.

• Applies to international shipments when transported by air or water as the material is a Marine Pollutant according to the IMDG (2.9.3) and an Environmentally Hazardous Substance (aquatic environment) per the UN Model Regulations (2.9.3).

• Material is regulated as an Environmentally Hazardou's Substance (aquatic environment) according to the ADRs (2.2.9.1.10.5.2) and a Marine Pollutant according to the IMDG (2.9.3). As such packages and transport units must display the Environmentally Hazardous Substance mark according to ADR 5.2.1.8 and 5.3.6, which are identical to the Marine Pollutant mark identified in the IMDG code (IMDG 5.2.1.6 and 5.3.2.3).

• For packaging (including IBCs), the EHS "mark" is 100mm x 100mm (same size as danger labels). For Cargo Transport Units, the EHS "mark" is 250mm x 250mm (same size as placards.) See ADR 5.2.1.8.3 for "labeling" requirements and ADR 5.3.6 for placarding/marking type requirements of the EHS "mark".

IATA Notes

• This classification may be used for International Air Transportation Association (IATA) and International Civil Aviation Organization (ICAO) international air shipments. Packaging Instruction 911 applies.

IMDG Notes

• The words "MARINE POLLUTANT" must supplement the proper shipping name on transport document as indicated in International Maritime Dangerous Goods code (IMDG) 5.4.1.4.3.6. for international carriage by vessel.

• IBCs need to be "marked" on two opposing sides with the Proper shipping name and technical name in addition to the UN number markings (IMDG 5.2.1).

Disclaimer

This section of the SDS provides basic classification information for transport, and where relevant, it also provides information with respect to specific modal regulations, environmental hazards (e.g., marine pollutant), and special precautions to the user. Otherwise it is to be presumed that the information is not available or not relevant.

15. Regulatory information

US federal regulations

In reference to Title VI of the Clean Air Act of 1990, this material does not contain nor was it manufactured using ozone-depleting chemicals.

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

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Section 311/312 hazard	Immediate Hazard - No
categories	Delayed Hazard - Yes
	Fire Hazard - No
	Pressure Hazard - No
	Reactivity Hazard - No
SARA 302 Extremely hazardous substance	No
SARA 311/312 Hazardous	Yes

chemical

SARA 313 (TRI reporting)

Not regulated.

US state regulations

US. Pennsylvania RTK - Hazardous Substances

Cryolite (Trisodium hexafluoroaluminate) (CAS 13775-53-6)

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

SDS Status	May 6, 2014: Change(s) in Section: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15 and 16. July 18, 2011: Change(s) in Section: 1, 2, 8, 10 and Exposure Scenarios.		
	October 5, 2010: Change(s) in Section: 1, 2, 3, 8 and 11. April 6, 2010: Change(s) in Section: 2, 4,		
	11, 12 and 14. February 26, 2010: New format.		
	March 3, 2009. New Johnal. February 14, 2006: Change(s) in Section: 1, 2, 3, 4, 8, 11 and 15		
	March 18, 2003: Reviewed on a periodic basis in accordance with Alcoa policy. Change(s) in Section: Product label, Replaces Eastalco Aluminum Company SDS for "Bath (Synthetic Cryolite)" Origination date: June 28, 1981 Hazardous Materials Control Committee Preparer: Jim Perriello, +1-865-977-2051. SDS System Number:		
Issue date	05-06-2014		
Revision date	05-06-2014		
Version #	09		
Further information	None known.		
Disclaimer	The information in the sheet was written based on the best knowledge and experience currently available.		

Revision Information

Product and Company Identification: Synonyms Hazards Identification: EU Hazard Classifications Composition / Information on Ingredients: Ingredients Physical & Chemical Properties: Multiple Properties Transport Information: Agency Name, Packaging Type, and Transport Mode Selection Regulatory Information: United States HazReg Data: North America GHS: Qualifiers REACH: Registration Substance

Other information

• Guide to Occupational Exposure Values 2013, Compiled by the American Conference of Governmental Industrial Hygienists (ACGIH).

- NIOSH Pocket Guide to Chemical Hazards, U.S. Department of Health and Human Services, September 2005,
- United States National Library of Medicine TOXNET Toxicology Data Network,
- Ariel, 3E Company, www.3Ecompany.com

Key/Legend:

- ACGIH American Conference of Governmental Industrial Hygienists
- AICS Australian Inventory of Chemical Substances
- CAS Chemical Abstract Services
- CERCLA Comprehensive Environmental Response, Compensation, and Liability Act
- CFR Code of Federal Regulations
- CPR Cardio-pulmonary Resuscitation
- DOT Department of Transportation
- DSL Domestic Substances List (Canada)
- EC Effective Concentration
- ED Effective Dose
- EINECS European Inventory of Existing Commercial Chemical Substances
- ENCS Japan Existing and New Chemical Substances
- EWC European Waste Catalogue
- EPA Environmental Protective Agency
- IARC International Agency for Research on Cancer
- LC Lethal Concentration
- LD Lethal Dose
- MAK Maximum Workplace Concentration (Germany) "maximale Arbeitsplatz-Konzentration"
- NDSL Non-Domestic Substances List (Canada)
- NIOSH National Institute for Occupational Safety and Health
- NTP National Toxicology Program
- OEL Occupational Exposure Limit
- OSHA Occupational Safety and Health Administration
- PIN Product Identification Number
- PMCC Pensky Marten Closed Cup
- REACH Registration, Authorization & Restriction of Chemicals
- RCRA Resource Conservation and Recovery Act
- SARA Superfund Amendments and Reauthorization Act
- SIMDUT Système d'Information sur les Matières Dangereuses Utilisées au Travail
- STEL Short Term Exposure Limit
- TCLP Toxic Chemicals Leachate Program
- TDG Transportation of Dangerous Goods
- TLV Threshold Limit Value
- TSCA Toxic Substances Control Act
- TWA Time Weighted Average
- WHMIS Workplace Hazardous Materials Information System
- m meter, cm centimeter, mm millimeter, in inch,
- g gram, kg kilogram, lb pound, µg microgram,

ppm parts per million, ft feet

SYNTHETIC CRYOLITE



Hazard statement

Harmful if inhaled. May cause harm to breast-fed children. Causes damage to organs (lungs) through prolonged or repeated exposure by inhalation. Causes damage to organs (lungs) through prolonged or repeated exposure by inhalation. Toxic to aquatic life with long lasting effects.

Precautionary statement

Prevention

Do not breathe dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Obtain special instructions before use. Avoid contact during pregnancy/while nursing. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment.

Response

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. If exposed or concerned: Get medical advice/attention. Get medical advice/attention if you feel unwell. Collect spillage.

Storage

Keep dry. Store in a dry place. Store away from incompatible materials.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental information

FIRE FIGHTING MEASURES: Non-combustible. Use fire-extinguishing media appropriate for surrounding materials. Hydrogen fluoride gas can be evolved above 930°F (500°C) in the presence of water vapor.

IN CASE OF SPILL: Avoid the generation of dusts during clean-up. Avoid contact with skin and eyes. Use dry cleanup procedures. Pick up mechanically. Wear appropriate personal protective equipment. Do not allow the spilled product to enter public drainage system or open water courses. See Alcoa SDS Number 0189.



Alcoa Inc., 201 Isabella Street, Pittsburgh, PA 15212-5858 United States +1-412-553-4001 (24 Hour Emergency Telephone, English only) CANADA: Canutec: +1-613-996-6666 USA: Chemtrec: +1-703-527-3887 +1-800-424-9300 (24 Hour Emergency Telephone, multiple languages spoken) Alcoa Health and Safety Email: accmsds@alcoa.com Tel: +1-412-553-4649 and Fax: +1-412-553-4822