

Safety Data Sheet M0032X2 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 06/21/2018 Version: 1.0

SECTION 1: Identification		
1.1. Identification		
Product form	Substance	
Substance name	Lithium hexafluorosilicate	
CAS No	: 17347-95-4	
Product code	: M003-2-X2	
Formula	F6Li2Si	
Synonyms	: Lithium silicofluoride	
Other means of identification	MFCD00049473	
	nce or mixture and uses advised against	
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and development	
1.3. Details of the supplier of the safety d	ata sheet	
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of America T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlabs.com		
1.4. Emergency telephone number		
Emergency number	: (844) 523-4086 (3E Company - Account 10069)	
SECTION 2: Hazard(s) identification		
2.1. Classification of the substance or mi	ture	
Classification (GHS-US)		
Acute Tox. 3 (Oral)H301 - Toxic if swalloAcute Tox. 3 (Dermal)H311 - Toxic in contaAcute Tox. 3 (Inhalation)H311 - Toxic if inhaleSkin Irrit. 2H315 - Causes skin iEye Irrit. 2AH319 - Causes seriooSTOT SE 3H335 - May cause reFull text of H-phrases: see section 16	ct with skin d ritation s eye irritation	
0.0 Label elemente		
2.2. Label elements		
GHS-US labeling		
Hazard pictograms (GHS-US)	GHS06 GHS07	
Signal word (GHS-US)	Danger	
Hazard statements (GHS-US)	 H301+H311+H331 - Toxic if swallowed, in contact with skin of H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation 	or if inhaled
Precautionary statements (GHS-US)	 P261 - Avoid breathing dust, mist, spray P264 - Wash skin thoroughly after handling P270 - Do not eat, drink or smoke when using this product P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protect P301+P310 - If swallowed: Immediately call a poison center/ P302+P352 - If on skin: Wash with plenty of soap and water P305+P351+P338 - If in eyes: Rinse cautiously with water fo lenses, if present and easy to do. Continue rinsing P311 - Call a POISON CENTER or doctor/physician if you fe 	doctor/ p comfortable for breathing r several minutes. Remove contact el unwell
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	P330 P332	 Specific treatment (see supplementa Rinse mouth +P313 - If skin irritation occurs: Get me +P313 - If eye irritation persists: Get me 	dical advice/atter	tion
	P361 P362	- Take off contaminated clothing +P364 - Take off contaminated clothing - Wash contaminated clothing before r	d clothing and wash it befo	
	P403 P405	+P233 - Store in a well-ventilated place - Store locked up - Dispose of contents/container to an a	. Keep container	
2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity	GHS US)			
Not applicable				
SECTION 3: Composition/ir	nformation on in	gredients		
3.1. Substance		-		
Substance type	: Mono	o-constituent		
Name		Product identifier	%	Classification (GHS-US)
Lithium hexafluorosilicate (Main constituent)		(CAS No) 17347-95-4	<= 100	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H311 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Full text of H-phrases: see section 1	6			
3.2. Mixture				
Not applicable				
SECTION 4: First aid measu	ures			
4.1. Description of first aid m	easures			
First-aid measures general		se of accident or if you feel unwell, seel e possible). Move the affected personn		
First-aid measures after inhalation	respir	ove person to fresh air and keep comfo ration. Get immediate medical advice/ar	tention.	
First-aid measures after skin contact		with plenty of soap and water. Get imr		
First-aid measures after eye contact	prese	ediately flush eyes thoroughly with wate ent and easy to do. Continue rinsing. Ge	et immediate med	ical advice/attention.
First-aid measures after ingestion		OT induce vomiting. Never give anythir h out with water. Get immediate medica		
4.2. Most important sympton				
Symptoms/injuries		nost important known symptoms and el and/or in section 11.	fects are describe	ed in the labelling (see section
4.3. Indication of any immed	ate medical attentio	n and special treatment needed		
Treat symptomatically.				
SECTION 5: Firefighting me	easures			
5.1. Extinguishing media				
Suitable extinguishing media		ol resistant foam. Carbon dioxide. Dry opriate for surrounding fire.	powder. Water sp	ray. Use extinguishing media
5.2. Special hazards arising f	rom the substance of	or mixture		
Fire hazard	: Hydro	ogen fluoride. Lithium oxide. Silicon oxi	des.	
5.3. Advice for firefighters				
Ŭ	: In cas	se of fire: Evacuate area.		
Firefighting instructions	: Wear	se of fire: Evacuate area. gas tight chemically protective clothing ratus. For further information refer to se		
Firefighting instructions Protection during firefighting	: Wear appar	gas tight chemically protective clothing		
Firefighting instructions Protection during firefighting SECTION 6: Accidental rele	: Wear appar ease measures	gas tight chemically protective clothing		
Firefighting instructions Protection during firefighting SECTION 6: Accidental rele	: Wear appar ease measures rotective equipment	gas tight chemically protective clothing ratus. For further information refer to se	ction 8: "Exposur	e controls/personal protection".

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6.1.1.	For non-emergency personnel	
Emerger	ncy procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.
6.1.2.	For emergency responders	
Protectiv	re equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2.	Environmental precautions	
Avoid rel	lease to the environment. Notify authorit	es if product enters sewers or public waters.
6.3.	Methods and material for containme	nt and cleaning up
For conta	ainment	: Stop leak if safe to do so.
Methods	for cleaning up	: Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust.
Other inf	ormation	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".
6.4.	Reference to other sections	
No addit	ional information available	
SECTI	ON 7: Handling and storage	
7.1.	Precautions for safe handling	
Precautio	ons for safe handling	: Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe dust, mist, spray. Wear personal protective equipment. Avoid contact with skin and eyes.
Hygiene	measures	: Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2.	Conditions for safe storage, includi	ng any incompatibilities
Technica	al measures	: Comply with applicable regulations.
Storage	conditions	: Keep container closed when not in use. Hygroscopic. Keep contents under inert gas.
Incompa	tible materials	: Refer to Section 10 on Incompatible Materials.
Storage	area	: Store in dry, cool, well-ventilated area.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls	
Appropriate engineering controls	: Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Hand protection	: Protective gloves. 29 CFR 1910.138: Hand Protection.
Eye protection	: Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection.
Other information	: Safety shoes. 29 CFR 1910.136: Foot Protection.

SECTION 9: Physical and chemical properties

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9.1.	Information on basic physical ar	nd chemical properties	
Physica	I state	: Solid	
Color		: No data available	•
Odor		: No data available	;
Odor th	reshold	: No data available	;
рН		: No data available	1
Melting	point	: No data available	;
Freezin	g point	: No data available	;
Boiling	point	: No data available	1
Flash p	oint	: No data available	1
Relative	e evaporation rate (butyl acetate=1)	: No data available	;
Flamma	ability (solid, gas)	: No data available	1

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Explosion limits	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	No data available
Vapor pressure	:	No data available
Relative density	:	No data available
Relative vapor density at 20 °C	:	No data available
Specific gravity / density	:	2.01 g/ml (@ 25 °C)
Molecular mass	:	155.958 g/mol
Solubility	:	No data available
Log Pow	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available

9.2. **Other information**

No additional information available

SECT	ION 10: Stability and reactivity
10.1.	Reactivity
No addi	itional information available
10.2.	Chemical stability
The pro	duct is stable at normal handling and storage conditions.
10.3.	Possibility of hazardous reactions
No addi	itional information available
10.4.	Conditions to avoid
Keep av	way from heat, sparks and flame.
10.5.	Incompatible materials
Strong	oxidizing agents.
10.6.	Hazardous decomposition products
	normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of e Section 5.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Oral: Toxic if swallowed. Dermal: Toxic in contact with skin. Inhalation: Toxic if inhaled.
Lithium hexafluorosilicate (17347-95-4)	
ATE US (oral)	100.000 mg/kg body weight
ATE US (dermal)	300.000 mg/kg body weight
ATE US (gases)	700.000 ppmV/4h
ATE US (vapors)	3.000 mg/l/4h
ATE US (dust, mist)	0.500 mg/l/4h
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified

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Aspirat	on hazard	: Not classified
SECT	ION 12: Ecological information	
12.1.	Toxicity	
No add	tional information available	
12.2.	Persistence and degradability	
No add	tional information available	
12.3.	Bioaccumulative potential	
No add	tional information available	
12.4.	Mobility in soil	
No add	tional information available	
12.5.	Other adverse effects	
No add	tional information available	

SECTION 13: Disposal consideration	ns
13.1. Waste treatment methods	
Waste treatment methods	: Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.
Waste disposal recommendations	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Additional information	: Recycle the material as far as possible.
SECTION 14: Transport information	

Department of Transportation (DOT)	

In accordance with DOT

Transport document description

UN-No.(DOT)

Packing group (DOT)

DOT Symbols

Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Hazard labels (DOT)

DOT Packaging Non Bulk (49 CFR 173.xxx)

DOT Packaging Bulk (49 CFR 173.xxx)

- : UN2856 Fluorosilicates, n.o.s., 6.1, III
- : UN2856
- : Fluorosilicates, n.o.s.
- : 6.1 Class 6.1 Poisonous materials 49 CFR 173.132
- : 6.1 Poison



- : III Minor Danger
- : 213
- : 240
- : G Identifies PSN requiring a technical name
- DOT Special Provisions (49 CFR 172.102) : IB8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2). IP3 - Flexible IBCs must be sift-proof and water-resistant or must be fitted with a sift-proof and water-resistant liner. T1 - 1.5 178.274(d)(2) Normal..... 178.275(d)(2) TP33 - The portable tank instruction assigned for this substance applies for granular and powdered solids and for solids which are filled and discharged at temperatures above their melting point which are cooled and transported as a solid mass. Solid substances transported or offered for transport above their melting point are authorized for transportation in portable tanks conforming to the provisions of portable tank instruction T4 for solid substances of

packing group III or T7 for solid substances of packing group II, unless a tank with more stringent requirements for minimum shell thickness, maximum allowable working pressure, pressure-relief devices or bottom outlets are assigned in which case the more stringent tank instruction and special provisions shall apply. Filling limits must be in accordance with portable tank special provision TP3. Solids meeting the definition of an elevated temperature material must be transported in accordance with the applicable requirements of this subchapter.

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about any to react a register, ren ri, ren co, menaay,	
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 100 kg
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 200 kg
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
DOT Vessel Stowage Other	: 52 - Stow "separated from" acids
Other information	: No supplementary information available.
TDG	
No additional information available	
Transport by sea	
UN-No. (IMDG)	: 2856
Proper Shipping Name (IMDG)	: FLUOROSILICATES, N.O.S.
Class (IMDG)	: 6.1 - Toxic substances
Packing group (IMDG)	: III - substances presenting low danger
Air transport	
UN-No. (IATA)	: 2856
Proper Shipping Name (IATA)	: Fluorosilicates, n.o.s.
Class (IATA)	: 6.1 - Toxic Substances
Packing group (IATA)	: III - Minor Danger
SECTION 15: Regulatory information	
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15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic

Lithium hexafluorosilicate CAS No 17347-95-4 100%		substances Control Act (TSCA) inventory exception.			
	L	ithium hexafluorosilicate		100%	

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

National regulations

Lithium hexafluorosilicate (17347-95-4) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Japanese ISHL (Industrial Safety and Health Law) Listed on the Korean ECL (Existing Chemicals List) Japanese Poisonous and Deleterious Substances Control Law

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

SECTION 16: Other information

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Full text of H-phrases:		
Acute Tox. 3 (Dermal)	3 (Dermal) Acute toxicity (dermal) Category 3	
Acute Tox. 3 (Inhalation)	Acute toxicity (inhalation) Category 3	
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3	
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A	
Skin Irrit. 2	Skin corrosion/irritation Category 2	
STOT SE 3	Specific target organ toxicity (single exposure) Category 3	
H301	Toxic if swallowed	
H311	Toxic in contact with skin	
H315	Causes skin irritation	
H319	Causes serious eye irritation	
H331	Toxic if inhaled	
H335	May cause respiratory irritation	

NFPA health hazard	: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.	
NFPA fire hazard	: 0 - Materials that will not burn.	
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.	
HMIS III Rating		
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given	
Flammability	: 0 Minimal Hazard - Materials that will not burn	
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT	

SDS US (GHS HazCom 2012)

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is offered solely for your consideration, investigation, and verification. It does not represent any guarantee of the properties of the product nor that the hazard precautions or procedures described are the only ones which exist. SynQuest shall not be held liable or any damage resulting from handling or from contact with the above product.

react with water, polymerize, decompose, condense, or self-react. Non-Explosives.