

Safety Data Sheet M003202 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 12/29/2017 Version: 1.0

1.1. Identification	
Product form	: Substance
Substance name	: Lithium hexafluoroarsenate
CAS No	: 29935-35-1
Product code	: M003-2-02
Formula	: AsF6Li
Synonyms	: Lithium hexafluoroarsenate / Arsenate(1-), hexafluoro-, lithium (1:1) / Hexafluoroarsenate(1-)
	lithium / Lithium hexafluoroarsenate(V)
Other means of identification	: MFCD00011076
1.2. Relevant identified uses of the s	substance 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 safe	etv data sheet
SynQuest Laboratories, Inc.	
P.O. Box 309	
Alachua, FL 32615 - United States of Americ	a
T (386) 462-0788 - F (386) 462-7097 info@synguestlabs.com - www.synguestlabs	2 COM
	<u></u>
0 7 1	· (944) E22 4096 (2E Company Account 10060)
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
Eye Irrit. 2A H319 - Causes	serious eye irritation
Eye Irrit. 2AH319 - CausesSTOT SE 3H335 - May cauAquatic Acute 1H400 - Very toxiAquatic Chronic 1H410 - Very toxi	serious eye irritation ise respiratory irritation
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	P305+P351+P338 - If in eyes: F lenses, if present and easy to d P311 - Call a POISON CENTEF P312 - Call a POISON CENTEF P321 - Specific treatment (see s P330 - Rinse mouth P332+P313 - If skin irritation oc P337+P313 - If eye irritation pel P362+P364 - Take off contamin P391 - Collect spillage P403+P233 - Store in a well-ver P405 - Store locked up P501 - Dispose of contents/cont	o. Continue rinsing R or doctor/physician R or doctor/physician if you supplemental first aid instru- ccurs: Get medical advice/at rsists: Get medical advice/a hated clothing and wash it b ntilated place. Keep contain	ctions on this label) tention ttention efore reuse ner tightly closed
2.3. Other hazards			
No additional information available			
2.4. Unknown acute toxicity (GHS U Not applicable	5)		
	ection on increationts		
SECTION 3: Composition/inform 3.1. Substance	hation on ingredients		
Substance type	: Mono-constituent		
Name		0/	Classification (CHS US)
Lithium hexafluoroarsenate (Main constituent)	CAS No) 29935-35-1	<pre>% << 100</pre>	Classification (GHS-US) Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Inhalation), H331 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Full text of H-phrases: see section 16			
3.2. Mixture			
Not applicable			
SECTION 4: First aid measures 4.1. Description of first aid measure			
First-aid measures general	: In case of accident or if you feel where possible). Move the affect		
First-aid measures after inhalation	1 ,	keep comfortable for breat	hing. If not breathing, give artificial
First-aid measures after skin contact		rub 2.5% calcium gluconate	d clothing and shoes. In case of skin gel continuously into the affected Get immediate medical
First-aid measures after eye contact	: Immediately flush eyes thoroug present and easy to do. Continu		5 minutes. Remove contact lenses, if nedical advice/attention.
First-aid measures after ingestion	: Do NOT induce vomiting. Never mouth out with water. Get imme		
4.2. Most important symptoms and	d effects, both acute and delayed		
Symptoms/injuries	: The most important known sym 2.2) and/or in section 11.	ptoms and effects are desc	ribed in the labelling (see section
Symptoms/injuries after inhalation	: Material is destructive to tissue shortness of breath, headache,		s and upper respiratory tract. Cough,
4.3. Indication of any immediate me Treat symptomatically. Absorption of excess and organ damage (heart, liver, kidneys).	edical attention and special treatment is ssive F- can result in acute systemic fluoro		rference with various metabolic functions
SECTION 5: Firefighting measure	res		
5.1. Extinguishing media			
Suitable extinguishing media	: Alcohol resistant foam. Carbon	dioxide. Dry powder. Water	spray. Use extinguishing media

Cultur		appropriate for surrounding f	ire.	
5.2.	Special hazards arising fro	m the substance or mixture		
Fire h	azard	: Arsenic oxides. Hydrogen flu	ioride. Lithium oxide.	
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5.3. Advice for firefighters	
Firefighting instructions	: In case of fire: Evacuate area.
Protection during firefighting	: Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".
SECTION 6: Accidental release m	easures
6.1. Personal precautions, protective	e equipment and emergency procedures
General measures	: Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe dust.
6.1.1. For non-emergency personnel	
Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.
6.1.2. For emergency responders	
Protective 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 release to the environment. Notify aut	horities if product enters sewers or public waters.
6.3. Methods and material for contai	nment and cleaning up
For containment	: 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 information	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".
6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and storag	e
7.1. Precautions for safe handling	
Precautions 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, inc	uding any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use. Hygroscopic. Keep contents under inert gas.
Incompatible materials	: Refer to Section 10 on Incompatible Materials.
Storage area	: Store in dry, cool, well-ventilated area.
SECTION 8: Exposure controls/p	ersonal 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.

- : Protective gloves. 29 CFR 1910.138: Hand Protection.
 - : Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face 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			
9.1. Information on b	basic physical and chemical properties		
Physical state	: Solid		
Color	: No data available		
Odor	: No data available		

Hand protection

Skin and body protection

Eye protection

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8 8 9	3 1
Odor threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
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
Molecular mass	: 195.853 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

ECTION 10: Stability and reactivity
D.1. Reactivity
o additional information available
0.2. Chemical stability
ne product is stable at normal handling and storage conditions.
0.3. Possibility of hazardous reactions
o additional information available
0.4. Conditions to avoid
eep away from heat, sparks and flame.
0.5. Incompatible materials
trong oxidizing agents.
0.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of fire, see Section 5.

SECTION 11: Toxicological information 11.1. Information on toxicological effects

Acute toxicity

: Oral: Toxic if swallowed. Inhalation: Toxic if inhaled.

Lithium hexafluoroarsenate (29935-35-1)		
ATE US (oral)	100.000 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	

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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
Aspiration hazard	: Not classified
Symptoms/injuries after inhalation	: Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea.

SECTION 12: Ecological information
12.1. Toxicity
No additional information available
12.2. Persistence and degradability
No additional information available
12.3. Bioaccumulative potential
No additional information available
12.4. Mobility in soil
No additional information available
12.5. Other adverse effects
No additional information available

SECTION 13: Disposal consideration	15
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	: UN1557 Arsenic compounds, solid, n.o.s. (inorganic, including arsenates, n.o.s.; arsenites, n.o.s.; arsenic sulfides, n.o.s.; and organic compounds of arsenic, n.o.s.), 6.1, II
UN-No.(DOT)	: UN1557
Proper Shipping Name (DOT)	: Arsenic compounds, solid, n.o.s.
	inorganic, including arsenates, n.o.s.; arsenites, n.o.s.; arsenic sulfides, n.o.s.; and organic compounds of arsenic, n.o.s.
Transport hazard class(es) (DOT)	: 6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132
Hazard labels (DOT)	: 6.1 - Poison
	6
Packing group (DOT)	: II - Medium Danger
Dangerous for the environment	: Yes
Marine pollutant	: Yes
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DOT Packaging Non Bulk (49 CFR 173.xxx)		212
DOT Packaging Bulk (49 CFR 173.xxx)		242
DOT Symbols	:	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). IP2 - When IBCs other than metal or rigid plastics IBCs are used, they must be offered for transportation in a closed freight container or a closed transport vehicle. IP4 - Flexible, fiberboard or wooden IBCs must be sift-proof and water-resistant or be fitted with a sift-proof and water-resistant liner. T3 - 2.65 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	:	153
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	:	25 kg
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	:	100 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.
Other information	:	No supplementary information available.
TDG		
No additional information available		
Transport by sea		
UN-No. (IMDG)	:	1557
Proper Shipping Name (IMDG)	:	ARSENIC COMPOUND, LIQUID, N.O.S.
Class (IMDG)	:	6.1 - Toxic substances
Packing group (IMDG)	:	II - substances presenting medium danger
Air transport		
UN-No. (IATA)	:	1557
Proper Shipping Name (IATA)	:	Arsenic compound, solid, n.o.s.
Class (IATA)	:	6.1 - Toxic Substances
Packing group (IATA)	:	II - Medium Danger
SECTION 15: Regulatory information	۱	

15.1. US Federal regulations

Lithium hexafluoroarsenate (29935-35-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

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

Lithium hexafluoroarsenate (29935-35-1)

Listed on the Canadian DSL (Domestic Sustances List)

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EU-Regulations

No additional information available

National regulations

Lithium hexafluoroarsenate (29935-35-1) Listed on the Korean ECL (Existing Chemicals List) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Japanese Poisonous and Deleterious Substances Control Law Japanese Pollutant Release and Transfer Register Law (PRTR Law) Listed on the TCSI (Taiwan Chemical Substance Inventory)

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

Full text of H-phrases:

Acute Tox. 3 (Inhalation)	Acute toxicity (inhalation) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
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
H315	Causes skin irritation
H319	Causes serious eye irritation
H331	Toxic if inhaled
H335	May cause respiratory irritation
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

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
	* - Chronic (long-term) health effects may result from repeated overexposure
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 react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

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.