

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 10/2/2024  $\,$  Version: 1.0

SECTION 1: Identification 1.1. Identification			
Product form	: Substance		
Substance name	: LITHIUM METABORATE		
CAS-No.	: 13453-69-5		
Product code	: ARF10011, ARF10012, ARF10014, ARF10015		
1.2. Recommended use and restrictions on use			
Use of the substance/mixture 1.3. Supplier	: Laboratory chemicals		
Alpha Resources LLC			
3090 Johnson Rd.			
Stevensville, Michigan 49127			
USA			
T (269)465-5559			
info@alpharesources.com - www.alpharesources.com			
1.4. Emergency telephone number			
Emergency number	: CHEMTREC Emergency Phone Number: (800) 424-9300		
Zmergeney nameer	· · · · · · · · · · · · · · · · · · ·		
<b>SECTION 2: Hazard(s) identification</b> 2.1. Classification of the substance or mixture			
GHS US classification			
Acute toxicity (oral) Category 4	H302 Harmful if swallowed		
Serious eye damage/eye irritation Category 1	H318 Causes serious eye damage		
Reproductive toxicity Category 2	H361 Suspected of damaging fertility or the unborn child		
Full text of H statements : see section 16			
2.2. GHS Label elements, including precautio	nary statements		
GHS US labeling			
Hazard pictograms (GHS US)			
Signal word (GHS US)	: Danger		
Hazard statements (GHS US)	: H302 - Harmful if swallowed		
	H318 - Causes serious eye damage		
	H361 - Suspected of damaging fertility or the unborn child		
Precautionary statements (GHS US)	: P201 - Obtain special instructions before use.		
	P202 - Do not handle until all safety precautions have been read and understood.		
	P264 - Wash hands, forearms and face thoroughly after handling.		
	P270 - Do not eat, drink or smoke when using this product.		
	P280 - Wear protective gloves/protective clothing/eye protection/face protection.		
	P301+P312 - If swallowed: Call a poison center or doctor if you feel unwell.		
	P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,		
	if present and easy to do. Continue rinsing.		
	P308+P313 - If exposed or concerned: Get medical advice/attention.		
	P310 - Immediately call a poison center or doctor. P330 - Rinse mouth.		
	P405 - Store locked up.		
	P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with		
	local, regional, national and/or international regulation.		
2.3. Other hazards which do not result in clas			

No additional information available

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#### 2.4. Unknown acute toxicity (GHS US)

No additional information available

# **SECTION 3: Composition/Information on ingredients** 3.1. Substances

lame	Product identifier	%	GHS US classification
ITHIUM METABORATE Main constituent)	CAS-No.: 13453-69-5	100	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Repr. 2, H361

3.2. Mixtures

Not applicable

<b>SECTION 4: First-aid measures</b> 4.1. Description of first aid measures				
First-aid measures general	: IF exposed or concerned: Get medical advice/attention. Call a poison center/doctor/physician if you feel unwell.			
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.			
First-aid measures after skin contact	: Wash skin with plenty of water.			
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.			
First-aid measures after ingestion	: Rinse mouth. Call a poison center/doctor/physician if you feel unwell.			
4.2. Most important symptoms and effects (acute and delayed)				
Symptoms/effects after eye contact	: Serious damage to eyes.			
4.3. Immediate medical attention and sp	pecial treatment, if necessary			

Treat symptomatically.

<b>SECTION 5: Fire-fighting measures</b> 5.1. Suitable (and unsuitable) extinguishing me	edia
Suitable extinguishing media 5.2. Specific hazards arising from the chemica	: Water spray. Dry powder. Foam. I
Hazardous decomposition products in case of fire 5.3. Special protective equipment and precaut	: Toxic fumes may be released. ions for fire-fighters
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures				
6.1. Personal precautions, protective equipment and emergency procedures				
6.1.1. For non-emergency personnel				
Emergency procedures	: Ventilate spillage area. Avoid contact with skin and eyes.			
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.				
6.3. Methods and material for containment and cleaning up				

### Methods for cleaning up

: Mechanically recover the product. Notify authorities if product enters sewers or public waters.

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	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
For further information refer to section 13.	
<b>SECTION 7: Handling and storage</b> 7.1. Precautions for safe handling	
Precautions for safe handling	: Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Avoid contact with skin and eyes.
	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, including any inc	
Storage conditions	: Store locked up. Store in a well-ventilated place. Keep cool.
SECTION 8: Exposure controls/personal pr 8.1. Control parameters	otection
o.i. Control parameters	
LITHIUM METABORATE (13453-69-5)	
No additional information available	
8.2. Appropriate engineering controls	
	: Ensure good ventilation of the work station.
1	: Avoid release to the environment.
8.3. Individual protection measures/Personal pro	tective equipment
Hand protection:	
Protective gloves	
Eye protection:	
Safety glasses	
Skin and body protection:	
Wear suitable protective clothing	
Respiratory protection:	
[In case of inadequate ventilation] wear respiratory protect	tion.
Personal protective equipment symbol(s):	

9.1. Information on basic physic	ar and chemical properties
Physical state	: Solid
Appearance	: Powder.
Color	: white
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: 845 °C
Freezing point	: Not applicable

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Boiling point	: No data available
Flash point	: Not applicable
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not flammable.
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Density	: 2.18 g/cm <sup>3</sup>
Solubility	: Very soluble.
	Water: 141.2 g/l
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosion limits	: Not applicable
Explosive properties	: No data available
Oxidizing properties	: No data available
9.2. Other information	

No additional information available

### SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport. 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

**10.5. Incompatible materials** No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information 11.1. Information on toxicological effects		
Acute toxicity (oral)	:	Harmful if swallowed.
Acute toxicity (dermal)	:	Not classified
Acute toxicity (inhalation)	:	Not classified
LITHIUM METABORATE (13453-69-5)		
LD50 oral rat		500 mg/kg
ATE US (oral)		500 mg/kg body weight
Skin corrosion/irritation	:	Not classified
Serious eye damage/irritation	:	Causes serious eye damage.
Respiratory or skin sensitization	:	Not classified
Germ cell mutagenicity	:	Not classified
Carcinogenicity	:	Not classified
Reproductive toxicity	:	Suspected of damaging fertility or the unborn child.
STOT-single exposure	:	Not classified

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STOT-repeated exposure	:	Not classified
Aspiration hazard	:	Not classified
Viscosity, kinematic	:	Not applicable
Symptoms/effects after eye contact	:	Serious damage to eyes.

#### **SECTION 12: Ecological information**

12.1. Toxicity

Ecology - general

: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

LITHIUM METABORATE (13453-69-5)			
EC50 - Other aquatic organisms [1]	100 g/l Daphnia magna (Water flea)		
ErC50 algae	100 mg/l		
NOEC chronic algae	32 mg/l		
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 considerations 13.1. Disposal methods

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

40/0/0004 (Issues state)	110	
Transport hazard class(es) (IATA)	: Not applicable	
ΙΑΤΑ		
IMDG Transport hazard class(es) (IMDG)	: Not applicable	
TDG Transport hazard class(es) (TDG)	: Not applicable	
<b>DOT</b> Transport hazard class(es) (DOT)	: Not applicable	
14.3. Transport hazard class(es)		
Proper Shipping Name (IATA)	: Not applicable	
Proper Shipping Name (IMDG)	: Not applicable	
Proper Shipping Name (TDG)	: Not applicable	
Proper Shipping Name (DOT)	: Not applicable	
Not regulated for transport 14.2. UN proper shipping name		
14.1. UN number		
In accordance with DOT / TDG / IMDG / IATA		
SECTION 14: Transport information		

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14.4. Packing group		
Packing group (DOT)	: Not applicable	
Packing group (TDG)	: Not applicable	
Packing group (IMDG)	: Not applicable	
Packing group (IATA)	: Not applicable	
14.5. Environmental hazards		
Other information	: No supplementary information available.	
14.6. Special precautions for user		
DOT		
No data available		
TDG		
No data available		
IMDG No data available		
no data available		
IATA		
No data available		
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code		
Not applicable		
**		

#### SECTION 15: Regulatory information

#### **15.1. US Federal regulations**

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
LITHIUM METABORATE	13453-69-5	Present	Active	
		•		

**15.2. International regulations** 

#### CANADA

#### LITHIUM METABORATE (13453-69-5)

Listed on the Canadian DSL (Domestic Substances List)

#### **EU-Regulations**

No additional information available

#### **National regulations**

No additional information available 15.3. US State regulations

No additional information available

#### **SECTION 16: Other information**

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Full text of H-phrases	
H302	Harmful if swallowed
H318	Causes serious eye damage
H361	Suspected of damaging fertility or the unborn child

Safety Data Sheet (SDS), USA

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.