# WF Education Group - Safety Data Sheet

LI3520

(in accordance with regulation (EU) 2015/830 and regulation (EC) 1272/2008)

Revision: 1.2 Revision date: 16 April 2021

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## **Section 1. Identification**

1.1 Product Identifier LI3520

Product Name LITHIUM METAL (in paraffin liquid) 25g.

CAS Number 7439-93-2

REACH Registration No A registration number is not available as the substance or its uses are exempt, the

annual tonnage does not require a registration or the registration is envisaged for a

later date.

Molecular Formula

#### 1.2 Relevent identified uses of the substance or mixure & uses advised against

Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.

## **1.3 Supplier** WF Education Group



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(Have this document to hand)

# Section 2. Hazards Identification

## 2.1 Classification of the substance or mixture

## Classification according to regulation 1272/2008/EC

Contact with water > flam gas, category 1 H260: In contact with water releases flammable gases which may ignite

spontaneously.

Skin corrosion/irritation, category 1B H314: Causes severe skin burns and eye damage.

## 2.2 Label elements

## Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms





Hazard Statements In contact with water releases flammable gases which may ignite spontaneously. Causes severe skin burns and

eye damage.

Precautionary Statements Keep away from any possible contact with water, because of violent reaction and possible flash fire. Protect from

moisture. Wear protective gloves / protective clothing / eye protection / face protection. Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages. Use dry powder for extinction. Store in a dry place. Store

in a closed container.

# **Section 3. Composition**

#### 3.1 Substances

	Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Ī	Lithium	7439-93-2	231-102-5		>99.8%	Water-react. 1,Skin Corr. 1B

# Section 4. First Aid

#### 4.1 Description of first aid measures

Eyes Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. OBTAIN MEDICAL

ATTENTION URGENTLY.

Skin Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash before re-use.

OBTAIN MEDICAL ATTENTION URGENTLY.

Inhalation Remove from exposure. Keep warm and at rest. If conscious place in a sitting position. If there is difficulty in

breathing give oxygen if available. If breathing stops or shows signs of failing, apply artificial resuscitation.

OBTAIN MEDICAL ATTENTION.

Ingestion If conscious give plenty of water to drink. Do not induce vomiting. OBTAIN MEDICAL ATTENTION

URGENTLY.

Personal protection for first Wear protective gloves / eye protection.

aiders

### 4.2 Most important symptoms and effects, both acute & delayed.

No further relevant information available.

#### 4.3 Indication of any immediate medical attention and special treatment needed.

No further relevant information available.

# Section 5. Fire Fighting

### 5.1 Extinguishing media

Extinguishing Media Dry graphite or appropriate metal fire extinguishing powder.

Unsuitable Media Do not allow water to come into direct contact with material.

#### 5.2 Special hazards arising from the substance or mixture

Hazards May evolve toxic fumes if involved in a fire. Burns in oxygen, nitrogen and carbon dioxide. Once alight it will

remove oxygen from sand, carbon dioxide etc making it difficult to extinguish fires.

#### 5.3 Advice for firefighters

Advice for firefighters Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear

protective clothing and breathing apparatus.

# Section 6. Accidental Release Measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal Protection Use approved personal protective equipment. Ensure no contact with water, acids or other aqueous solutions is

possible. Evacuate area immediately. Do not allow other people to enter area.

## 6.2 Environmental precautions

Environmental Keep material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local

Environmental Health Officer if major spillage occurs.

#### 6.3 Methods and material for containment and cleaning up

Major Spillage Shovel/sweep up into container for removal Minor Spillage Shovel/sweep up into container for removal

#### 6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

# Section 7. Storage & Handling

#### 7.1 Precautions for safe handling

Avoid contact with water, acids or other aqueous solutions.

## 7.2 Conditions for safe storage, including any incompatibilities

Store in a dry place protected against moisture and water. Keep well protected from ingress of water and well separated from acids

#### 7.3 Specific end use(s)

See section 1.2.

## Section 8. Workplace Exposure & Personal Protection

## 8.1 Control parameters

Compo	nent CAS No	Concentration	Workplace Exposure Limits			
			Long Term	Long Term (8hr TWA) Short Term 15min		5min period)
Lithium	7439-93-2	>99.8%	-	-	-	-

Exposure data source(s) No occupational exposure data currently available.

#### 8.2 Exposure controls

Respiratory Protection Presents no significant inhalation health hazard.

Hand Protection Wear gloves.

Skin Protection Avoid contact with skin.

Special Hazards No special precautions required.

# Section 9. Physical & Chemical Properties

## 9.1 Information on basic physical and chemical properties

Appearance Soft silvery-white metal sticks, tarnishing readily on exposure to air.

Odour No specific odour.

pH Not applicable
Boiling Point 1336°C
Melting Point 180.5°C
Flash Point Not applicable
Upper Flammable Limit Not applicable
Lower Flammable Limit Not applicable
Auto Ignition Not applicable

Explosive Properties No.
Oxidising Properties No.

Vapour Pressure Not applicable Relative Density 0.5340

Water Solubility Reacts violently with water evolving a flammable gas which may explode or catch fire.

#### 9.2 Other information

No data available.

# Section 10. Stability & Reactivity

10.1 Reactivity

10.2 Chemical Stability Stable under normal conditions but decomposes violently in contact with water.

**10.3** Possibility of hazardous No data available.

reactions

10.4 Conditions to Avoid Avoid contact with water or water vapour.

10.5 Incompatable Materials Large lumps or small hot particles, react explosively with water, ice and aqueous mineral acids. Burns/reacts

violently or even explosively with material containing oxygen such as carbon dioxide, air, sand, asbestos, acids and oxidisers especially above its melting point (180C). Bromobenzene, halocarbons, mercury, metal chlorides,

oxides, nitric acid, viton, and sulphur.

Hazardous Decomposition Decomposes to emit highly irritant fumes.

Products

# Section 11. Toxicological Information

## 11.1 Information on toxicological effects

Eyes Can cause severe burns or blindness on contact with the eyes and fumes from burning material are highly

irritating.

Skin Direct contact with moisture on the skin causes severe thermal and caustic burns.

LD50 Skin Not available

Ingestion Ingestion will cause severe mouth burns, and if swallowed extensive damage to the oesophagus.

LD50 Oral Not available

Inhalation Fumes from burning material are highly irritating to the upper respiratory tract.

LD50 Inhalation Not available **TCLo** Not available

Carcinogenicity No information is available. Mutagenicity No information is available. Reproductive Effects No information is available.

## Section 12. Ecological

12.1 Toxicity None unusual.

LC50 Algal Not available LC50 Crustacea Not available LC50 Fish Not available 12.2 Persistence and No data available.

degradability

**12.3** Bioaccumulative potential No data available. 12.4 Mobility in soil No data available.

Results of PBT & vPvB

assessment

Assessment not required.

**12.6** Other adverse effects None known at present.

# **Section 13. Disposal Considerations**

## 13.1 Waste treatment methods

Disposal Methods Wearing full safety equipment cover material with soda ash and slowly add to butan-1-ol in a large container.

Allow to stand for 24 hours then wash to drain with copious amounts of water.

Contaminated Packaging Use a licensed waste disposer.

# Section 14. Transport Information

14.1 UN Number 141514.2 Proper Shipping Name Lithium

14.3 Transport classes

UN classification 4.3
Subsidiary hazard(s) None
Transport category 1
ADR Hazard ID X423
Tunnel Restriction Code B/E

14.4 Packing Group

**14.5 Environment hazards** See section 12.

**14.6 Special precautions for** No special precautions required.

user

**14.7 Transport in bulk** Not transported in bulk.



# Section 15. Regulatory Information

# $15.1\ Safety, health\ and\ environment\ regulations\ specific\ for\ subtance/mixture.$

### Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

Classification Contact with water > flam gas, category 1; Skin corrosion/irritation, category 1B

Signal word Danger

Hazard Pictograms





Hazard Statements H260, H314

In contact with water releases flammable gases which may ignite spontaneously. Causes severe skin burns and

eye damage.

Precautionary Statements P223, P232, P280, P335+P334, P378, P402+P404

Keep away from any possible contact with water, because of violent reaction and possible flash fire. Protect from moisture. Wear protective gloves / protective clothing / eye protection / face protection. Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages. Use dry powder for extinction. Store in a dry place. Store

in a closed container.

#### 15.2 Chemical safety assessment

Assessment not required.

## **Section 16. Other Information**

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

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