# MATERION

# SAFETY DATA SHEET

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Name of the substance Lithium Sulfide (Li2S) **Identification number** 12136-58-2 (CAS number)

**Synonyms** None

L-MSDS0027 **Document number Issue date** 04-May-2015

Version number

1.2. Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** Not available. Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

**Supplier** 

**Division** 

**Telephone** 

Company name Materion Advanced Chemicals Inc.

**Address** 407 N. 13th Street

> 1316 W. St. Paul Avenue Milwaukee, WI 53233

**United States** Milwaukee 414.212.0257

e-mail advancedmaterials@materion.com

**Contact person** Noreen Atkinson

1.4. Emergency telephone

number

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC as amended

Classification according to Regulation (EC) No 1272/2008 as amended

**Hazard summary** 

**Physical hazards** Not classified for physical hazards. **Health hazards** Not classified for health hazards.

**Environmental hazards** Not classified for hazards to the environment.

**Specific hazards** Not available. Main symptoms Not available.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Lithium Sulfide **Contains:** 

None. **Hazard pictograms** Signal word None.

**Hazard statements** The substance does not meet the criteria for classification.

**Precautionary statements** 

**Prevention** Not available. Not available. Response Not available. Storage **Disposal** Not available.

Supplemental label

information

None.

2.3. Other hazards None known.

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# **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

#### **General information**

Chemical name		%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Lithium Sulfide		100	12136-58-2 235-228-1	-	-	
Classification:	DSD: -					
	CLP: -					

#### **SECTION 4: First aid measures**

**General information** Not available.

4.1. Description of first aid measures

Not available. Inhalation Skin contact Not available. **Eye contact** Not available. **Ingestion** Not available. 4.2. Most important Not available.

symptoms and effects, both

acute and delayed

4.3. Indication of any Not available. immediate medical attention

and special treatment

needed

# **SECTION 5: Firefighting measures**

**General fire hazards** Not available.

5.1. Extinguishing media

Suitable extinguishing

media

Not available.

**Unsuitable extinguishing** 

media

Not available.

5.2. Special hazards arising

from the substance or

mixture

Not available.

5.3. Advice for firefighters

**Special protective** equipment for firefighters

Not available.

# **SECTION 6: Accidental release measures**

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

For non-emergency

personnel

For emergency

Not available.

responders

Not available.

6.2. Environmental precautions

Not available.

6.3. Methods and material for

Not available.

containment and cleaning up

Not available.

6.4. Reference to other sections

# **SECTION 7: Handling and storage**

7.1. Precautions for safe

Not available.

handling

7.2. Conditions for safe storage, including any incompatibilities

Not available.

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Not available. 7.3. Specific end use(s)

# **SECTION 8: Exposure controls/personal protection**

8.1. Control parameters

**Occupational exposure limits** No exposure limits noted for ingredient(s).

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Recommended monitoring** 

procedures

Not available.

**Derived no-effect level** 

(DNEL)

Not available.

**Predicted no effect** concentrations (PNECs)

Not available.

8.2. Exposure controls

**Appropriate engineering** 

Not available.

controls

Individual protection measures, such as personal protective equipment

**General information** Not available. **Eye/face protection** Not available.

Skin protection

- Hand protection Not available. - Other Not available. Not available. **Respiratory protection** Not available. Thermal hazards **Hygiene measures** Not available. **Environmental exposure** Not available.

controls

#### **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

**Appearance** 

Solid. Physical state

**Form** Not available. Colour Not available. Odour Not applicable. **Odour threshold** Not available. Not available. рH Not available. Melting point/freezing point Initial boiling point and

boiling range

Not available.

Not available. Flash point Not available. **Evaporation rate** Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit -

Not available.

upper (%)

< 0,0000001 kPa at 25 °C Vapour pressure

Not available. Vapour density Not available. Relative density

Solubility(ies)

Not available. Solubility (water) Solubility (other) Not available. **Partition coefficient** Not available.

(n-octanol/water)

**Auto-ignition temperature** Not available.

Material name: Lithium Sulfide (Li2S) 1041 Version #: 01 Issue date: 04-May-2015 **Decomposition temperature** Not available. Not available. **Viscosity Explosive properties** Not available. **Oxidizing properties** Not available.

9.2. Other information

Molecular formula Li2S

# **SECTION 10: Stability and reactivity**

10.1. Reactivity Not available. 10.2. Chemical stability Not available. 10.3. Possibility of hazardous Not available.

reactions

10.4. Conditions to avoid Not available. 10.5. Incompatible materials Not available. Not available. 10.6. Hazardous

decomposition products

# **SECTION 11: Toxicological information**

**General information** Not available.

Information on likely routes of exposure Inhalation Not available. Skin contact Not available. **Eye contact** Not available. Not available. **Ingestion** 

Not available. **Symptoms** 11.1. Information on toxicological effects

**Acute toxicity** No data available. Not available. Skin corrosion/irritation Serious eye damage/eye Not available.

irritation

**Respiratory sensitisation** Not available. Skin sensitisation Not available. Germ cell mutagenicity Not available. Carcinogenicity Not available. Not available. Reproductive toxicity Specific target organ toxicity Not available.

- single exposure

Specific target organ toxicity

- repeated exposure

Not available.

**Aspiration hazard** Not available. Mixture versus substance Not available.

information

Other information Not available.

# **SECTION 12: Ecological information**

No toxicity data noted for the ingredient(s). 12.1. Toxicity

12.2. Persistence and Not available.

degradability

Not available.

potential

**Partition coefficient** Not available.

n-octanol/water (log Kow)

12.3. Bioaccumulative

**Bioconcentration factor (BCF)** Not available. 12.4. Mobility in soil Not available.

12.5. Results of PBT Not a PBT or vPvB substance or mixture.

and vPvB assessment

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# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Residual waste Not available.

Contaminated packaging Not available.

EU waste code Not available.

#### **SECTION 14: Transport information**

#### **ADR**

Not regulated as dangerous goods.

**RID** 

Not regulated as dangerous goods.

**ADN** 

Not regulated as dangerous goods.

**IATA** 

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

#### **SECTION 15: Regulatory information**

# 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I, as amended Not listed.

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II, as amended Not listed.

Regulation (EC) No. 850/2004 on persistent organic pollutants, Annex I

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA Not listed.

#### **Authorisations**

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended Not listed.

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Not listed.

#### Restrictions on use

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use Not regulated.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended

Not listed.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding, as amended

Not listed.

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#### Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances

Not listed.

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work, as amended

Not listed.

Directive 94/33/EC on the protection of young people at work, as amended

Not listed.

National regulations Not available.

15.2. Chemical safety Not available.

assessment

# **SECTION 16: Other information**

List of abbreviationsNot available.ReferencesNot available.Information on evaluationNot available.method leading to the

method leading to the classification of mixture

Full text of any statements or None.

R-phrases and H-statements under Sections 2 to 15

**Revision information** None.

**Training information** Not available.

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