



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 8/30/2019 Version: 1.0

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

1.1. Product identifier

Product form : Substance

Substance name : Lithium acetylide ethylenediamine complex IUPAC name : lithium(1+) ion acetylene ethane-1,2-diamine

 EC-No.
 : 229-967-9

 CAS-No.
 : 6867-30-7

 Product code
 : 45561583

 Formula
 : C4H9LiN2

 Product group
 : Raw material

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

1.2.1. Relevant identified uses

Main use category : Laboratory use,Industrial use,Professional use

Industrial/Professional use spec : For professional use only Use of the substance/mixture : For analytical purposes

Scientific research and development

Not for human consumption or veterinary purposes.

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

Scafell Organics Molekula Ltd Lingfield Way Darlington - England

T +44 (0) 1949 823777 / +44 (0) 7590 545705

info@molekula.com / kbowen@molekula.com - www.molekula.com

1.4. Emergency telephone number

Emergency number : +44 (0) 7590 545705

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Substances and Mixtures which, in contact with water, emit flammable H261

gases, Category 3

Acute toxicity (oral), Category 4 H302 Skin corrosion/irritation, Category 1C H314

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)







GHS02

GHS05

GHS07

Signal word (CLP) : Danger

Hazard statements (CLP) : H261 - In contact with water releases flammable gases.

H302 - Harmful if swallowed.

H314 - Causes severe skin burns and eye damage.

Precautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P223 - Do not allow contact with water.

P231+P232 - Handle and store contents under inert gas. Protect from moisture.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312 - IF SWALLOWED: Call a POISON CENTRE 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.

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EUH-statements : EUH014 - Reacts violently with water.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Name	Product identifier	%
	(CAS-No.) 6867-30-7 (EC-No.) 229-967-9	100

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general

: If possible show this sheet, if not available show packaging or label. Never give anything by mouth to an unconscious person. Do not leave affected person unattended.

First-aid measures after inhalation : If breathing

: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Give oxygen or artificial respiration if necessary. If breathing difficulties persist: Get medical advice/attention.

First-aid measures after skin contact

: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Do not remove clothing if it sticks to the skin. If irritation persists, consult a doctor.

First-aid measures after eye contact

: Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do.

Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion

: Rinse mouth out with water. Do not induce vomiting. Get medical advice/attention.

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

Symptoms/effects after inhalation

: Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea.

Symptoms/effects after skin contact

: Causes severe burns. May produce skin irritation, blistering, ulcers, and deep scarring.

Symptoms/effects after eye contact Symptoms/effects after ingestion : Causes serious eye damage. May cause severe chemical burns to skin and cornea.

: Harmful if swallowed. Swallowing this material may result in health hazard. Symptoms of ingestion include drowsiness, weakness, headache, dizziness, nausea, vomiting. burns of the upper digestive and respiratory tracts, abdominal pain, bloody vomiting, severe damage to the delicate tissue and danger of perforation.

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

Get immediate medical advice/attention.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Dry powder. Sand.
Unsuitable extinguishing media : Do NOT use water jet.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Flammable solid. Reacts violently with water.

Explosion hazard : May form flammable/explosive vapour-air mixture.

Hazardous decomposition products in case of fire : Carbon oxides (CO, CO2). Lithium. Nitrogen oxides.

5.3. Advice for firefighters

Precautionary measures fire : Exposure to fire/heat: seal off low-lying areas. Keep container tightly closed and away from heat, sparks and flame. Keep away from combustible materials.

neat, spants and name. Neep away nom compustible materials.

Firefighting instructions : Evacuate area. Eliminate all ignition sources if safe to do so. Fight fire from safe distance

and protected location. Keep upwind.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Use self-contained

breathing apparatus and chemically protective clothing.

Other information : Warn all persons of toxic hazard.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Do not handle until all safety precautions have been rea

: Do not handle until all safety precautions have been read and understood. Ventilate the area thoroughly, especially low lying areas (basements, workpits etc). Proper grounding procedures to avoid static electricity should be followed.

6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

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: Evacuate unnecessary personnel. Mark out the contaminated area with signs and prevent Emergency procedures access to unauthorized personnel. Do not touch or walk on the spilled product. Avoid

contact with skin, eyes and clothing.

Measures in case of dust release : Keep upwind. Avoid creating or spreading dust. Ventilate the area thoroughly, especially

low lying areas (basements, workpits etc). Special attention should be given to low areas/pits where flammable vapours can accumulate.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Use self-contained

breathing apparatus and chemically protective clothing.

Emergency procedures : All equipment used when handling the product must be grounded. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.

Stop leak if safe to do so.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : On land, sweep or shovel into suitable containers. Shovel or sweep up and put in a closed

container for disposal.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid formation of dust. Avoid contact with skin, eyes and clothing. Do not handle until all

safety precautions have been read and understood. Ensure that there is a suitable ventilation system. Do not handle in a confined space. Handle under inert gas.

Hygiene measures : Take off immediately all contaminated clothing and wash it before reuse. Contaminated

work clothing should not be allowed out of the workplace. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures Ensure adequate ventilation, especially in confined areas. Proper grounding procedures to

avoid static electricity should be followed.

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Heat

sources, Direct sunlight. Keep container closed when not in use. Store contents under inert

gas. Do not allow contact with water. Light sensitive.

Incompatible products : Strong oxidizing agents. alcohols. Acids.

Incompatible materials : Sources of ignition. Direct sunlight. Heat sources. open flames. sparks. Moisture. Water,

humidity. Light sensitive.

Storage temperature · 2 - 8 °C

: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No Heat and ignition sources

smoking.

Storage area : Keep away from combustible materials. Store in a dark area. Store in dry protected location

to prevent any moisture contact.

Special rules on packaging : Never allow product to get in contact with water during storage.

7.3. Specific end use(s)

For analytical purposes. Scientific research and development. Not for human consumption or veterinary purposes.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls:

Handle in accordance with good industrial hygiene and safety procedures.

Personal protective equipment:

Avoid all unnecessary exposure.

Materials for protective clothing:

Wear suitable protective clothing, gloves and eye/face protection

Hand protection:

The protective gloves to be used must comply with the specifications of the regulation 2016/425 and the resultant standard EN 374

Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0.11		EN 374

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Eye protection:

Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure. Use eye protection according to EN 166, designed to protect against powders and dusts.

Туре	Use	Characteristics	Standard
Safety goggles, Face shield	Fine dust, Dust	tightly fitting safety goggles, With side shields	EN 166

Skin and body protection:

Emergency safety showers should be available in the immediate vicinity of any potential exposure. Keep suitable chemically resistant protective clothing readily available for emergency use

Туре	Standard
Total impervious protective suits, gloves, and boots must be worn to prevent any contact with the product, Flame retardant antistatic protective clothing	EN ISO 13982

Respiratory protection:

Keep self contained breathing apparatus readily available for emergency use. Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

Device	Filter type	Condition	Standard
Respiratory protective device with a particle filter	Type P3	Dust protection	EN 14387

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid Powder **Appearance** Molecular mass : 92.07 g/mol Colour : light yellow. Yellow. Odour · No data available Odour threshold : No data available рΗ : No data available Relative evaporation rate (butylacetate=1) : No data available

Melting point : 76 °C

Freezing point : No data available : 110.6 °C lit. Boiling point Flash point : No data available Auto-ignition temperature : No data available Decomposition temperature : No data available Flammability (solid, gas) : Flammable Vapour pressure : No data available Relative vapour density at 20 °C : No data available Relative density : No data available Solubility : No data available No data available Log Pow Viscosity, kinematic : No data available Viscosity, dynamic : No data available Explosive properties : No data available Oxidising properties : No data available : No data available **Explosive limits**

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable solid. Reacts violently with water.

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10.2. Chemical stability

Flammable solid. In use may form flammable/explosive vapour-air mixture.

10.3. Possibility of hazardous reactions

Stable under normal conditions of use.

10.4. Conditions to avoid

Protect from sunlight. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Light sensitive. Moisture. Water, humidity.

10.5. Incompatible materials

Strong oxidizers. Acids. Alcohols.

10.6. Hazardous decomposition products

No hazardous decomposition products known at room temperature. Thermal decomposition generates: Carbon oxides (CO, CO2). Lithium. Nitrogen oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Oral: Harmful if swallowed.

Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Skin corrosion/irritation : Causes severe skin burns and eye damage.

Additional information : Based on available data, the classification criteria are not met

Serious eye damage/irritation : Serious eye damage, category 1, implicit

Additional information : Based on available data, the classification criteria are not met

Respiratory or skin sensitisation : Not classified

Additional information : Based on available data, the classification criteria are not met

Germ cell mutagenicity : Not classified

Additional information : Based on available data, the classification criteria are not met

Carcinogenicity : Not classified

Additional information : Based on available data, the classification criteria are not met

Reproductive toxicity : Not classified

Additional information : Based on available data, the classification criteria are not met

STOT-single exposure : Not classified

Additional information : Based on available data, the classification criteria are not met

STOT-repeated exposure : Not classified

Additional information : Based on available data, the classification criteria are not met

Aspiration hazard : Not classified

Additional information : Based on available data, the classification criteria are not met

Potential adverse human health effects and : Based on available data, the classification criteria are not met.

symptoms

SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic toxicity : Not classified Chronic aquatic toxicity : Not classified

12.2. Persistence and degradability

Lithium acetylide ethylenediamine complex (6867-30-7)

Persistence and degradability No data available.

12.3. Bioaccumulative potential

Lithium acetylide ethylenediamine complex (6867-30-7)

Bioaccumulative potential No data available.

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Lithium acetylide ethylenediamine complex (6867-30-7)

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

Additional information : Avoid release to the environment.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Additional information : Handle empty containers with care because residual vapours are flammable.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

added date with / Dr. () the / this e / with () Dr.				
ADR	IMDG	IATA	ADN	RID
14.1. UN number				
3131	3131	3131	3131	3131
14.2. UN proper shippin	g name			
WATER-REACTIVE SOLID, CORROSIVE, N.O.S.	WATER-REACTIVE SOLID, CORROSIVE, N.O.S.	Water-reactive solid, corrosive, n.o.s.	WATER-REACTIVE SOLID, CORROSIVE, N.O.S.	WATER-REACTIVE SOLID, CORROSIVE, N.O.S.
Transport document descr	iption			
UN 3131 WATER- REACTIVE SOLID, CORROSIVE, N.O.S. (Lithium acetylide ethylenediamine complex), 4.3 (8), II, (D/E)	UN 3131 WATER- REACTIVE SOLID, CORROSIVE, N.O.S. (Lithium acetylide ethylenediamine complex), 4.3 (8), II	UN 3131 Water-reactive solid, corrosive, n.o.s. (Lithium acetylide ethylenediamine complex), 4.3, II	UN 3131 WATER- REACTIVE SOLID, CORROSIVE, N.O.S. (Lithium acetylide ethylenediamine complex), 4.3 (8), II	UN 3131 WATER- REACTIVE SOLID, CORROSIVE, N.O.S. (Lithium acetylide ethylenediamine complex), 4.3 (8), II
14.3. Transport hazard	class(es)			
4.3 (8)	4.3 (8)	4.3 (8)	4.3 (8)	4.3 (8)
4	4	4	1 8	
14.4. Packing group				
II	II	II	II	II
14.5. Environmental hazards				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
No supplementary information available				

No supplementary information available

14.6. Special precautions for user

Overland transport

Classification code (ADR) : WC2
Special provisions (ADR) : 274
Limited quantities (ADR) : 500g
Excepted quantities (ADR) : E2
Packing instructions (ADR) : P410

Packing instructions (ADR) : P410, IBC06
Mixed packing provisions (ADR) : MP14

Portable tank and bulk container instructions : T3

(ADR)

Portable tank and bulk container special provisions : TP33

(ADR)

Tank code (ADR) : SGAN
Vehicle for tank carriage : AT
Transport category (ADR) : 0
Special provisions for carriage - Packages (ADR) : V1
Special provisions for carriage - Loading, : CV23

unloading and handling (ADR)

Hazard identification number (Kemler No.) : 482

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Orange plates 482

Tunnel restriction code (ADR) : D/E EAC code : 4W

Transport by sea

: 76, 274 Special provisions (IMDG) Packing instructions (IMDG) : P410 Special packing provisions (IMDG) : PP40 IBC packing instructions (IMDG) : IBC06 IBC special provisions (IMDG) : B21 Tank instructions (IMDG) : T3 Tank special provisions (IMDG) : TP33 EmS-No. (Fire) : F-G EmS-No. (Spillage) : S-L Stowage category (IMDG) : E : SW5, H1 Stowage and handling (IMDG) Segregation (IMDG) : SG26

Air transport

PCA Excepted quantities (IATA) : E2 PCA Limited quantities (IATA) : Y475 PCA limited quantity max net quantity (IATA) : 5kg PCA packing instructions (IATA) : 483 PCA max net quantity (IATA) : 15kg CAO packing instructions (IATA) : 490 CAO max net quantity (IATA) : 50kg Special provisions (IATA) : A3, A803 ERG code (IATA) : 4CW

Inland waterway transport

Classification code (ADN) : WC2
Special provisions (ADN) : 274
Limited quantities (ADN) : 500 g
Excepted quantities (ADN) : E2

Equipment required (ADN) : PP, EP, EX, A

Ventilation (ADN) : VE01
Provisions for handling and stowage of the cargo : HA08

(ADN)

Number of blue cones/lights (ADN) : 0

Rail transport

Classification code (RID) : WC2
Special provisions (RID) : 274
Excepted quantities (RID) : E2

Packing instructions (RID) : P410, IBC06

Mixed packing provisions (RID) : MP14

Portable tank and bulk container instructions (RID) : T3

Portable tank and bulk container special provisions : TP33

(RID)

Tank codes for RID tanks (RID) : SGAN
Transport category (RID) : 0
Special provisions for carriage – Packages (RID) : W1
Special provisions for carriage - Loading, : CW23
unloading and handling (RID)

Colis express (express parcels) (RID) : CE10 Hazard identification number (RID) : 482

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

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SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Lithium acetylide ethylenediamine complex is not on the REACH Candidate List Directive 2012/18/EU (SEVESO III)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out for the substance or the mixture by the supplier

SECTION 16: Other information

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16

December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

Full text of H- and EUH-statements:		
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Skin Corr. 1C	Skin corrosion/irritation, Category 1C	
Water-react. 3	Substances and Mixtures which, in contact with water, emit flammable gases, Category 3	
H261	In contact with water releases flammable gases.	
H302	Harmful if swallowed.	
H314	Causes severe skin burns and eye damage.	
EUH014	Reacts violently with water.	

SDS EU (REACH Annex II)

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.

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