

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 5/2/2019 Version: 1.0

	nce/mixture and of the company/undertaking
1.1. Product identifier Product form	: Mixture
Product name	: Lithium ethoxide 1M solution in ethanol
CAS-No.	: 2388-07-0
Product code	: 90028447
Formula	: C2H5LiO
Product group	: Blend
1.2. Relevant identified uses of the substance	ce 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
1.2.2. Uses advised against	
No additional information available	
1.3. Details of the supplier of the safety data	a sheet
Supplier	
Scafell Organics	
Molekula Ltd Lingfield Way	
Darlington - Éngland	
T +44 (0) 1949 823777 / +44 (0) 7590 545705 info@molekula.com / kbowen@molekula.com - www	
	<u></u>
1.4. Emergency telephone number Emergency number	+44 (0) 7590 545705
SECTION 2: Hazards identification	
2.1. Classification of the substance or mixtu	Ire
Classification according to Regulation (EC) No. 1	272/2008 [C] P1
Flammable liquids, Category 2	H225
Flammable liquids, Category 2 Self-Heating Substances and Mixtures, Category 1	H225 H251
Flammable liquids, Category 2 Self-Heating Substances and Mixtures, Category 1 Skin corrosion/irritation, Category 1	H225
Flammable liquids, Category 2 Self-Heating Substances and Mixtures, Category 1 Skin corrosion/irritation, Category 1 Full text of H statements : see section 16	H225 H251 H314
Flammable liquids, Category 2 Self-Heating Substances and Mixtures, Category 1 Skin corrosion/irritation, Category 1 Full text of H statements : see section 16 Adverse physicochemical, human health and env	H225 H251 H314
Flammable liquids, Category 2 Self-Heating Substances and Mixtures, Category 1 Skin corrosion/irritation, Category 1 Full text of H statements : see section 16 Adverse physicochemical, human health and env No additional information available	H225 H251 H314
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Flammable liquids, Category 2 Self-Heating Substances and Mixtures, Category 1 Skin corrosion/irritation, Category 1 Full text of H statements : see section 16 Adverse physicochemical, human health and env No additional information available 2.2. Label elements Labelling according to Regulation (EC) No. 1272/2 Hazard pictograms (CLP)	H225 H251 H314 vironmental effects 2008 [CLP] i GHS02 $GHS05$
Flammable liquids, Category 2 Self-Heating Substances and Mixtures, Category 1 Skin corrosion/irritation, Category 1 Full text of H statements : see section 16 Adverse physicochemical, human health and env No additional information available 2.2. Label elements Labelling according to Regulation (EC) No. 1272/2 Hazard pictograms (CLP) Signal word (CLP)	H225 H251 H314 vironmental effects 2008 [CLP] $i \longrightarrow i \bigoplus $
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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

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SECTION 3: Composition/information on ingredients 3.1. Substances Not applicable 3.2. Mixtures			
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
ETHANOL	(CAS-No.) 64-17-5 (EC-No.) 200-578-6 (EC Index-No.) 603-002-00-5	90 - 95	Flam. Liq. 2, H225
Lithium ethoxide	(CAS-No.) 2388-07-0 (EC-No.) 628-773-5	5 - 10	Self-heat. 1, H251 Skin Corr. 1, H314

Full text of H-statements: see section 16

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 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, be	oth 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. Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.
Symptoms/effects after skin contact	: Causes severe burns. May cause moderate irritation, including burning sensation, tearing, redness or swelling.
Symptoms/effects after eye contact	: Causes serious eye damage. May cause severe chemical burns to skin and cornea.
Symptoms/effects after ingestion	: 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 substa	ince or mixture
Fire hazard	: Flammable liquid and vapour. Self-heating: may catch fire.
Explosion hazard	: May form flammable/explosive vapour-air mixture.
Hazardous decomposition products in case of fire	: Carbon oxides (CO, CO2).
5.3. Advice for firefighters	
Precautionary measures fire	: Keep container tightly closed and away from heat, sparks and flame. Keep away from combustible materials.
Firefighting instructions	: Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Wear recommended personal protective equipment. Use self-contained breathing apparatus and chemically protective clothing.
Other information	: Warn all persons of toxic hazard.

SECTION 6: Accidental release measure	es
6.1. Personal precautions, protective equipr	nent and emergency procedures
General measures	: Do not handle until all safety precautions have been read and understood. Ventilate the area thoroughly, especially low lying areas (basements, workpits etc). Keep away from combustible materials.

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6.1.1. For non-emergency personnel	
Protective equipment	: Wear recommended personal protective equipment.
Emergency procedures	: Evacuate unnecessary personnel. Mark out the contaminated area with signs and prevent 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	: Shelter from vapours by keeping upwind. 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	: Ventilate area.
6.2. Environmental precautions	
Prevent entry to sewers and public waters. Notif	fy authorities if liquid enters sewers or public waters.
6.3. Methods and material for containme	ent and cleaning up
For containment	: Collect spillage. Contain the spilled material by bunding.
Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.

Try to stop release if without risk.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

OFOTION 7. How diversional adverses	
SECTION 7: Handling and storage 7.1. Precautions for safe handling	
Additional hazards when processed	: Handle empty containers with care because residual vapours are flammable. Self-heating: may catch fire.
Precautions for safe handling	: Avoid formation of vapours. 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 a	iny 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. Never allow product to get in contact with water during storage. Store contents under inert gas.
Incompatible products	: Strong oxidisers. Alkali metals. Ammonia. Peroxides.
Incompatible materials	: Sources of ignition. Direct sunlight. Heat sources. open flames. sparks. Moisture. Water, humidity.
Heat and ignition sources	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Storage area	: Store between 10°C and 20°C. Keep away from combustible materials. 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)	
No additional information available	

SECTION 8: Exposure controls/personal protection 8.1. Control parameters			
ETHANOL (64-17-5)			
United Kingdom	Local name	Ethanol	
United Kingdom	WEL TWA (mg/m ³)	1920 mg/m³	
United Kingdom	WEL TWA (ppm)	1000 ppm	
United Kingdom Regulatory reference EH40. HSE			
8.2 Exposure contro	le		

8.2. Exposure controls Appropriate engineering controls:

Handle in accordance with good industrial hygiene and safety procedures. Floors should be impervious, resistant to liquids and easy to clean.

Personal protective equipment:

Avoid all unnecessary exposure.

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Hand protection:							
The protective gloves to be used must comply with the specifications of the regulation 2016/425 and the resultant standard EN 374							
Type Material		Permeation	Thickness (mm)	Penetration		Standard	
Disposable gloves Fluoroelastomer (FKM)		6 (> 480 minutes)	0.7			EN 374	
Eye protection:							
Emergency eye wash for designed to protect aga			ble in the immediate vio	inity of any potential exp	osure. Use e	ye protection	according to EN 166,
Туре		Use		Characteristics		Standard	
Safety goggles, Face shield Droplet, va		Droplet, vaj	pours	tightly fitting safety goggles, With side shields		EN 166	
Skin and body protect	tion:						
Emergency safety show clothing readily availabl			n the immediate vicinity	of any potential exposur	e. Keep suita	ble chemicall	y resistant protective
Type Standard							
Total impervious protective suits, gloves, and boots must be worn to prevent any contact with the product, Flame retardant antistatic protective clothing		EN 14605					
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	
Air-Purifying Respirator reusable	(APR),	ABEK		Moist condition, Mist for Protection for Liquid pa Vapour 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	: Liquid
Appearance	: Clear.
Molecular mass	: 52 g/mol
Colour	: Colourless. Orange.
Odour	: No data available.
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 9 °C
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
Density	: 0.82 g/cm³
Solubility	: No data available
Log Pow	: -0.32
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available

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Oxidising properties

Explosive limits

: No data available : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity Flammable liquid and vapour. Reacts violently with water.

10.2. Chemical stability

Flammable liquid and vapour. May form flammable/explosive vapour-air mixture. Self-heating: may catch fire.

10.3. Possibility of hazardous reactions

Reacts violently with water.

10.4. Conditions to avoid

Protect from sunlight. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Moisture. Water, humidity. **10.5. Incompatible materials**

Strong oxidizers. Alkali metals. Ammonia. Peroxides.

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information	
11.1. Information on toxicological effects	
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
ETHANOL (64-17-5)	
LD50 oral rat	10470 mg/kg
LD50 dermal rabbit	15800 mg/kg
LC50 inhalation rat (Vapours - mg/l/4h)	30000 mg/l/4h
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 symptoms	: Based on available data, the classification criteria are not met.

SECTION 12: Ecological informatio	n
12.1. Toxicity	
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified
ETHANOL (64-17-5)	
LC50 fish 1	14200 mg/l Fathead minnow
LC50 other aquatic organisms 1	5012 mg/l 48h
EC50 72h algae (1)	275 mg/l Chlorella vulgaris (Fresh water algae)

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NOEC (chronic)	9.6 mg/l 9 day Daphnia magna (Water flea)
12.2. Persistence and degradability	
Lithium ethoxide 1M solution in ethanol (2388-07-0)	
Persistence and degradability	No data available.

ETHANOL (64-17-5)		
Persistence and degradability	Biodegradable.	
Biochemical oxygen demand (BOD)	1.067 - 1.236 g O ₂ /g substance	
Chemical oxygen demand (COD)	1.99 g O ₂ /g substance	
12.3. Bioaccumulative potential		
Lithium ethoxide 1M solution in ethanol (2388-07-0)		
Log Pow	-0.32	
Bioaccumulative potential	No data available.	

ETHANOL (64-17-5)		
Log Pow	-0.35 @20.C	
Bioaccumulative potential	No bioaccumulation data available.	
12.4. Mobility in soil		
No additional information available		
12.5. Results of PBT and vPvB assessment		
Lithium ethoxide 1M solution in ethanol (2388-07-0)		
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.	

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.

ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number				
3274	3274	3274	3274	3274
14.2. UN proper shipping name				
ALCOHOLATES SOLUTION, N.O.S.	ALCOHOLATES SOLUTION, N.O.S.	Alcoholates solution, n.o.s.	ALCOHOLATES SOLUTION, N.O.S.	ALCOHOLATES SOLUTION
Transport document descr	iption			
UN 3274 ALCOHOLATES SOLUTION, N.O.S. (Lithium ethoxide 1M solution in ethanol), 3 (8), II, (D/E)	UN 3274 ALCOHOLATES SOLUTION, N.O.S. (Lithium ethoxide 1M solution in ethanol), 3 (8), II	UN 3274 Alcoholates solution, n.o.s. (Lithium ethoxide 1M solution in ethanol), 3 (8), II	UN 3274 ALCOHOLATES SOLUTION, N.O.S. (Lithium ethoxide 1M solution in ethanol), 3 (8), II	UN 3274 ALCOHOLATES SOLUTION (Lithium ethoxide 1M solution in ethanol), 3 (8), II
14.3. Transport hazard class(es)				
3 (8)	3 (8)	3 (8)	3 (8)	3 (8)

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	· ·			
14.4. Packing group				
II	II	II	II	II
14.5. Environmental haz	ards			
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 informatio	n available			
14.6. Special precautions	s for user			
Overland transport				
Classification code (ADR)	: FC			
Special provisions (ADR)	: 27	4		
Limited quantities (ADR)	: 11			
Excepted quantities (ADR)	: E2			
Packing instructions (ADR)		01, IBC02		
Mixed packing provisions (AD				
Tank code (ADR)	: L4			
Vehicle for tank carriage	: FL			
Transport category (ADR)	: 2	000		
Special provisions for carriage		2, S20		
Hazard identification number	(Kemler No.) : 33	ŏ		
Orange plates	-	338 3274		
Tunnel restriction code (ADR)	: D/	E		
EAC code	:•3'	NE		
APP code	: A(fl)		
Transport by sea				
Special provisions (IMDG)	: 27	4		
Packing instructions (IMDG)	: P0	01		
IBC packing instructions (IMD		C02		
EmS-No. (Fire)	: F-			
EmS-No. (Spillage)	: S-	C		
Stowage category (IMDG)	: B			
Properties and observations (olourless solution. Reacts viole embranes.	ntly with water. Causes burns	to skin, eyes and mucous
Air transport				
PCA Excepted quantities (IAT	A) : E2			
PCA Limited quantities (IATA)	: Y3	40		
PCA limited quantity max net	quantity (IATA) : 0.8	5L		
PCA packing instructions (IAT	A) : 35	2		
PCA max net quantity (IATA)	: 1L			
CAO packing instructions (IAT	-A) : 36	3		
CAO max net quantity (IATA)	: 5L			
ERG code (IATA)	: 30	;		
Inland waterway transport				
Classification code (ADN)	: FC			
Special provisions (ADN)	: 27			
Limited quantities (ADN)	:11			
Excepted quantities (ADN)	: E2			
Equipment required (ADN) Ventilation (ADN)	: PF : VE	P, EP, EX, A 601		
Number of blue cones/lights (A	ADN) : 1			
Rail transport				
Classification code (RID)	: FC	;		
Special provisions (RID)	: 27	4		
Limited quantities (RID)	: 1L			

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Excepted quantities (RID)	: E2
Packing instructions (RID)	: P001, IBC02
Mixed packing provisions (RID)	: MP19
Tank codes for RID tanks (RID)	: L4BH
Transport category (RID)	: 2
Colis express (express parcels) (RID)	: CE7
Hazard identification number (RID)	: 338

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable

SECTION 15: Regulatory information 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list Contains no REACH Annex XIV substances Directive 2012/18/EU (SEVESO III)

15.1.2. National regulations

Germany

Connary	
Reference to AwSV	: Water hazard class (WGK) 3, Highly hazardous to water (Classification according to AwSV, Annex 1)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)
Netherlands	
SZW-lijst van kankerverwekkende stoffen	: ETHANOL is listed
SZW-lijst van mutagene stoffen	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: ETHANOL is listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: ETHANOL is listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: ETHANOL is listed
Denmark	
Class for fire hazard	: Class I-1
Store unit	: 1 liter
Classification remarks	: F <flam. 1="" 2;="" liq.="" self-heat.="">; Emergency management guidelines for the storage of flammable liquids must be followed</flam.>
Danish National Regulations	: Young people below the age of 18 years are not allowed to use the product
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:		
Flam. Liq. 2	Flammable liquids, Category 2	
Self-heat. 1	Self-Heating Substances and Mixtures, Category 1	
Skin Corr. 1	Skin corrosion/irritation, Category 1	
H225	Highly flammable liquid and vapour.	
H251	Self-heating: may catch fire.	
H314	Causes severe skin burns and eye damage.	
EUH014	Reacts violently with water.	

SDS EU (REACH Annex II)

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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.