



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 7/27/2020 Version: 1.0

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

1.1. Product identifier

Product form : Mixture

Product name : Sodium ethoxide 21wt% solution in Ethanol

EC-No. : 205-487-5 CAS-No. : 141-52-6 Product code : 90028562 : C2H5NaO Formula Product group : Blend

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) 3302 000 333

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

1.4. Emergency telephone number

Emergency number : +44 (0) 7769276927

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flammable liquids, Category 3 H226 Self-Heating Substances and Mixtures, Category 1 H251 Skin corrosion/irritation, Category 1 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

Signal word (CLP) : Danger

: H226 - Flammable liquid and vapour. Hazard statements (CLP) H251 - Self-heating: may catch fire.

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.

P260 - Do not breathe dust/fume/gas/mist/vapours/spray.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water /shower

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

EUH-statements : EUH014 - Reacts violently with water.

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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

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	78 - 79.5	Flam. Liq. 2, H225
Sodium Ethoxide	(CAS-No.) 141-52-6 (EC-No.) 205-487-5 (EC Index-No.) 603-041-00-8	20.5 - 22	Self-heat. 1, H251 Skin Corr. 1B, 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.

: Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. First-aid measures after eye contact

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 : Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

Symptoms/effects after skin contact : Causes severe burns. Symptoms/effects after eye contact : Causes serious eye damage.

Symptoms/effects after ingestion : Severe irritation or burns to the mouth, throat, oesophagus, and stomach.

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. : Do NOT use water jet. Unsuitable extinguishing media

5.2. Special hazards arising from the substance or mixture

: Flammable liquid and vapour. Reacts violently with water. Fire hazard

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

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

5.3. Advice for firefighters

Precautionary measures fire : Keep container tightly closed and away from heat, sparks and flame. Keep away from

combustible materials.

: Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering Firefighting instructions

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 measures

6.1. Personal precautions, protective equipment 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. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment 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.

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. Reacts

violently with water.

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.

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

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. Air and moisture sensitive.

Incompatible products : Strong oxidizing agents.

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

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

smoking.

Storage area : Keep away from combustible materials. Store below 20 °C. Store in a dry place. Store in a

closed container.

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

Ethanol (64-17-5)			
United Kingdom	Local name	Ethanol	
United Kingdom	WEL TWA (mg/m³)	1920 mg/m³	
United Kingdom	WEL TWA (ppm)	1000 ppm	
United Kingdom	Regulatory reference	EH40/2005 (Third edition, 2018). HSE	

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.

Materials for protective clothing:

Wear suitable protective clothing, gloves and eye/face protection

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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

Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Fluoroelastomer (FKM)	6 (> 480 minutes)	0.7		EN 374

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 liquid splashes.

Туре	Use	Characteristics	Standard
Safety goggles, Face shield	Droplet, vapours	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 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 (APR), reusable	ABEK	Moist condition, Mist formation, Protection for Liquid particles, Vapour protection	EN 14387

: Liquid

Other information:

Physical state

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance : Viscous. Molecular mass : 68.05 g/mol Colour : Yellow. brown. Odour : Alcohol - like. Odour threshold : No data available : No data available pН Relative evaporation rate (butylacetate=1) : No data available Melting point : No data available Freezing point : No data available Boiling point : 91 °C

: 23 °C Flash point

Auto-ignition temperature : No data available : No data available Decomposition temperature Flammability (solid, gas) Flammable Vapour pressure : No data available Relative vapour density at 20 °C : No data available

Relative density : 0.89

Solubility : No data available Log Pow : 0.32 Ethanol Viscosity, kinematic : No data available Viscosity, dynamic : No data available Explosive properties : No data available Oxidising properties : No data available

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Explosive limits : 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.

10.3. Possibility of hazardous reactions

No dangerous reactions known 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.

10.5. Incompatible materials

Strong oxidizers.

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

	Sodium ethoxide 21wt% solution in Ethanol (141-52-6)		
LD50 oral		3450 mg/kg Mouse - Ethanol	
	LC50 inhalation rat (npm) 20000 ppm 10H - Ethanol		

Sodium Ethoxide (141-52-6)	
LD50 oral rat	598 mg/kg

Ethanol (64-17-5)	
LD50 oral rat	10470 mg/kg
LC50 inhalation rat (Vapours - mg/l/4h)	124.7 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 information

12.1. Toxicity

Hazardous to the aquatic environment, short-term : Not classified

(acute)

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Hazardous to the aquatic environment, long-term : Not classified

(chronic)

Ethanol (64-17-5)		
LC50 fish 1	15.3 mg/l Pimephales promelas (fathead minnow) 96hr	
EC50 Daphnia 1	5012 mg/l Ceriodaphnia dubia (water flea) 48hr	
EC50 72h algae (1)	275 mg/l Chlorella vulgaris (Fresh water algae) 72hr	
NOEC chronic algae	9.6 mg/l - Daphnia magna (Water flea) 9d	

12.2. Persistence and degradability

Sodium ethoxide 21wt% solution in Ethanol (141-52-6)

Persistence and degradability No data available.

Sodium Ethoxide (141-52-6)

Persistence and degradability No data available.

Ethanol (64-17-5)

Persistence and degradability No data available

12.3. Bioaccumulative potential

Sodium ethoxide 21wt% solution in Ethanol (141-52-6)

Sociality Chronical 2 TWE/N Condition in Education (14) 52 6/	
Log Pow	0.32 Ethanol
Bioaccumulative potential	No data available.

Sodium Ethoxide (141-52-6)

Bioaccumulative potential No bioaccumulation data available.

Ethanol (64-17-5)

Log Pow -0.349

Bioaccumulative potential No data available.

12.4. Mobility in soil

Sodium Ethoxide (141-52-6)

Ecology - soil No data available.

12.5. Results of PBT and vPvB assessment

Sodium ethoxide 21wt% solution in Ethanol (141-52-6)

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

Component

Ethanol (64-17-5)

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.

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID	
14.1. UN number					
2924	2924	2924	2924	2924	

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3 (8) 3 (8) 3 (8) 3 (8)				
	14.3. Transport hazard class(es)			
	3 (8)			
44.4 Docking group	8			
14.4. Packing group				
II II II II	II			
14.5. Environmental hazards				
	erous for the onment : No			
No supplementary information available				

14.6. Special precautions for user

Overland transport

Classification code (ADR) : FC
Special provisions (ADR) : 274
Limited quantities (ADR) : 11
Excepted quantities (ADR) : E2

Packing instructions (ADR) : P001, IBC02
Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions : T11

(ADR)

Portable tank and bulk container special provisions

(ADR)

Tank code (ADR) : L4BH

Vehicle for tank carriage : FL

Transport category (ADR) : 2

Special provisions for carriage - Operation (ADR) : S2, S20

Hazard identification number (Kemler No.) : 338

Orange plates

338 2924

: TP2, TP27

Tunnel restriction code (ADR) : D/E
EAC code : •3WE
APP code : A(fl)

Transport by sea

: 274 Special provisions (IMDG) Packing instructions (IMDG) : P001 IBC packing instructions (IMDG) : IBC02 Tank instructions (IMDG) : T11 Tank special provisions (IMDG) : TP2, TP27 EmS-No. (Fire) : F-E EmS-No. (Spillage) : S-C Stowage category (IMDG) : B Stowage and handling (IMDG) : SW2

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Properties and observations (IMDG) : Causes burns to skin, eves and mucous membranes.

Air transport

PCA Excepted quantities (IATA) : E2 PCA Limited quantities (IATA) : Y340 PCA limited quantity max net quantity (IATA) : 0.5L PCA packing instructions (IATA) : 352 PCA max net quantity (IATA) : 1L CAO packing instructions (IATA) : 363 CAO max net quantity (IATA) : 5L : A3, A803 Special provisions (IATA) : 3CH

ERG code (IATA)

Inland waterway transport

Classification code (ADN) : FC Special provisions (ADN) : 274 Limited quantities (ADN) : 1 L Excepted quantities (ADN) : E2 Carriage permitted (ADN) : T

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

Ventilation (ADN) : VE01 Number of blue cones/lights (ADN) : 1

Rail transport

Classification code (RID) : FC Special provisions (RID) : 274 Limited quantities (RID) : 1L Excepted quantities (RID) : E2 : P001, IBC02 Packing instructions (RID)

Mixed packing provisions (RID) : MP19 Portable tank and bulk container instructions (RID) : T11 Portable tank and bulk container special provisions : TP2, TP27

(RID)

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

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

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

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	

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Skin Corr. 1B	Skin corrosion/irritation, Category 1B
H225	Highly flammable liquid and vapour.
H226	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)

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.