



# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 7/29/2019 Version: 1.0

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

1.1. Product identifier

Product form : Mixture

Product name : Methylamine 30% wt/wt solution in Ethanol

 CAS-No.
 : 74-89-5

 Product code
 : 90029048

 Formula
 : CH5N

 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) 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]

Flammable liquids, Category 2

Acute toxicity (inhalation:dust,mist) Category 4

Skin corrosion/irritation, Category 1C

Specific target organ toxicity — Single exposure, Category 3,

H335

Respiratory tract irritation

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)





GHS07

GHS02

GHS05

Signal word (CLP) : Danger
Hazardous ingredients : Methylamine

Hazard statements (CLP) : H225 - Highly flammable liquid and vapour.

H314 - Causes severe skin burns and eye damage.

H332 - Harmful if inhaled.

H335 - May cause respiratory irritation.

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

No smoking.

P220 - Keep away from clothing and other combustible materials.

P260 - Do not breathe mist, spray, vapours.

P280 - Wear protective clothing, eye protection, face protection, protective gloves. 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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#### 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	68 - 72	Flam. Liq. 2, H225
Methylamine	(CAS-No.) 74-89-5 (EC-No.) 200-820-0 (EC Index-No.) 612-001-00-9	28 - 32	Flam. Gas 1, H220 Press. Gas Acute Tox. 4 (Inhalation), H332 STOT SE 3, H335 Skin Irrit. 2, H315 Eye Dam. 1, H318
Specific concentration limits:			
Name	Product identifier	Specific concentration limits	
Methylamine	(CAS-No.) 74-89-5 (EC-No.) 200-820-0 (EC Index-No.) 612-001-00-9	( 0.5 = <c 2,="" 5)="" <="" eye="" h319<br="" irrit.="">(C &gt;= 5) Skin Irrit. 2, H315 (C &gt;= 5) Eye Dam. 1, H318 (C &gt;= 5) STOT SE 3, H335</c>	

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, both acute and delayed

Symptoms/effects after inhalation

: Harmful if inhaled. 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 Symptoms/effects after eye contact Symptoms/effects after ingestion

: Causes severe burns. May produce skin irritation, blistering, ulcers, and deep scarring. : Causes serious eye damage. May cause severe chemical burns to skin and cornea.

: Swallowing this material may result in health hazard, 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 liquid and vapour.

Explosion hazard : May form flammable/explosive vapour-air mixture. : Carbon oxides (CO, CO2). Nitrogen oxides. Hazardous decomposition products in case of fire

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#### 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

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.

#### 6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

: 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

: 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

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

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.

: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Methods for cleaning up

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. Handle under

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 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. Hygroscopic. Store

contents under inert gas.

Incompatible products : Strong oxidizing agents. Alkali metals. Ammonia. Acid anhydrides. Acid chlorides.

Peroxides. Acids. Chloroformates. Phosphorus halides.

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

: 2 - 8 °C

Storage temperature

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

Storage area : Keep away from combustible materials. Store in dry protected location to prevent any

moisture contact.

#### 7.3. Specific end use(s)

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

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#### **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. 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

#### 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

: Clear. **Appearance** Molecular mass : 31.06 g/mol Colour : Colourless. : No data available. Odour Odour threshold : No data available pН : No data available Relative evaporation rate (butylacetate=1) No data available Melting point : No data available Freezing point : No data available : No data available Boiling point Flash point : 22.8 °C closed cup. Auto-ignition temperature : No data available Decomposition temperature : No data available

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Flammability (solid, gas)	: Flammable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 0.756 g/cm3
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
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.

#### 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. Moisture. Water, humidity.

#### 10.5. Incompatible materials

Strong oxidizers. Acids. Acid anhydrides. Acid chlorides. Ammonia. Alkali metals. Peroxides. Chloroformates. Phosphorus halides.

#### 10.6. Hazardous decomposition products

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

#### **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

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

Acute toxicity (inhalation) : Inhalation:dust,mist: Harmful if inhaled.

ATE CLP (dust,mist) 4.688 mg/l/4h

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

Methylamine (74-89-5)	
LD50 oral rat	698 mg/kg bodyweight
LC50 inhalation rat (ppm)	3555 ppm/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 :	May cause respiratory irritation.
Additional information :	Based on available data, the classification criteria are not met

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: Not classified STOT-repeated exposure

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

Aspiration hazard : Not classified

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

symptoms

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

: Not classified Acute aquatic toxicity 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)
NOEC (chronic)	9.6 mg/l 9 day Daphnia magna (Water flea)

Methylamine (74-89-5)	
LC50 fish 1	16 mg/l 48h - Leuciscus Idus (Golden orfe)
EC50 Daphnia 1	163 mg/l 48h - Daphnia Magna (water flea)
12.2. Persistence and degradability	

#### Methylamine 30% wt/wt solution in Ethanol (74-89-5)

Persistence and degradability No data available.

ETHANOL (64-17-5)	
Persistence and degradability Biodegradable.	
Biochemical oxygen demand (BOD)	1.067 - 1.236 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	1.99 g O <sub>2</sub> /g substance

Methylamine (74-89-5)	
Persistence and degradability Readily biodegradable.	
12.3. Bioaccumulative potential	
Methylamine 30% wt/wt solution in Ethanol (74-89-5)	
Bioaccumulative potential No data available.	

ETHANOL (64-17-5)		
Log Pow	-0.35 @20.C	
Bioaccumulative potential	No bioaccumulation data available.	

# Methylamine (74-89-5)

Bioaccumulative potential No bioaccumulation data available.

### 12.4. Mobility in soil

No additional information available

# 12.5. Results of PBT and vPvB assessment

## Methylamine 30% wt/wt solution in Ethanol (74-89-5)

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

#### Component

Methylamine (74-89-5) 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

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#### 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	
14.2. UN proper shipping name					
FLAMMABLE LIQUID, CORROSIVE, N.O.S.	FLAMMABLE LIQUID, CORROSIVE, N.O.S.	Flammable liquid, corrosive, n.o.s.	FLAMMABLE LIQUID, CORROSIVE, N.O.S.	FLAMMABLE LIQUID, CORROSIVE, N.O.S.	
Transport document description					
UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Methylamine 30% wt/wt solution in Ethanol), 3 (8), II, (D/E)	UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Methylamine 30% wt/wt solution in Ethanol), 3 (8), II	UN 2924 Flammable liquid, corrosive, n.o.s. (Methylamine 30% wt/wt solution in Ethanol), 3 (8), II	UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Methylamine 30% wt/wt solution in Ethanol), 3 (8), II	UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Methylamine 30% wt/wt solution in Ethanol), 3 (8), II	
14.3. Transport hazard class(es)					
3 (8)	3 (8)	3 (8)	3 (8)	3 (8)	
3	3 8		3	3	
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

# 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)

: TP2, TP27

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

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Orange plates : 338

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Tunnel restriction code (ADR) : D/E

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

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

: SW2

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 Special provisions (IATA) : A3, A803 ERG code (IATA) : 3CH

Inland waterway transport

Stowage and handling (IMDG)

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

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

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

Packing instructions (RID) : P001, IBC02
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

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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**

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 (Inhalation)	Acute toxicity (inhal.), Category 4	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
Flam. Gas 1	Flammable gases, Category 1	
Flam. Liq. 2	Flammable liquids, Category 2	
Press. Gas	Gases under pressure	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation	
H220	Extremely flammable gas.	
H225	Highly flammable liquid and vapour.	
H314	Causes severe skin burns and eye damage.	
H315	Causes skin irritation.	
H318	Causes serious eye damage.	
H332	Harmful if inhaled.	
H335	May cause respiratory irritation.	

#### 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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