

Diisopropylamine Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 5/15/2019 Version: 1.0

SECTION 1: Identification of the substa	nce/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Substance
Substance name	: Diisopropylamine
Chemical name	: diisopropylamine
EC Index-No.	: 612-129-00-5
EC-No.	: 203-558-5
CAS-No.	: 108-18-9
Product code	: 45926137
Formula	: C6H15N
Product group	: Raw material
1.2. Relevant identified uses of the substant	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 - 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
CECTION 2: Uppende identification	
SECTION 2: Hazards identification 2.1. Classification of the substance or mixtu	Jre
2.1. Classification of the substance or mixtu	
2.1. Classification of the substance or mixtu Classification according to Regulation (EC) No. 1	272/2008 [CLP]
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Precautionary statements (CLP)	: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
	No smoking.
	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.
	P353 - Rinse skin with water
	P405 - Store locked up.

### 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/info 3.1. Substances		
Name	Product identifier	%
Diisopropylamine	(CAS-No.) 108-18-9 (EC-No.) 203-558-5 (EC Index-No.) 612-129-00-5	100

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 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	: Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea. May be harmful if inhaled.
Symptoms/effects after skin contact	: Causes severe burns. May produce skin irritation, blistering, ulcers, and deep scarring.
Symptoms/effects after eye contact	: Causes serious eye damage. Blurred vision. Redness, pain. stinging. Tears.
Symptoms/effects after ingestion	: Swallowing this material may result in health hazard. Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. Symptoms of ingestion include drowsiness, weakness, headache, dizziness, nausea, vomiting. More severe symptoms are also possible.

#### 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	ance or mixture
Fire hazard	: Flammable liquid and vapour.
Explosion hazard	: May form flammable/explosive vapour-air mixture.
Hazardous decomposition products in case of fire	: Carbon oxides (CO, CO2). Nitrogen oxides.
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	: Use water spray or fog for cooling exposed containers. 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.

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SECTION 6: Accidental release measu				
6.1. Personal precautions, protective equip	pment 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.			
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	t 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.
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 a	ny 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.
Incompatible products	: Strong oxidisers. Strong acids. Strong bases. Plastics.
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 between 10°C and 20°C. Store in a dry place. Store in a closed container.
7.3. Specific end use(s)	

#### No additional information available

	sure controls/personal protection			
8.1. Control parameters				
Diisopropylamine (1	108-18-9)			
United Kingdom	Local name	Diisopropylamine		
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	21 mg/m <sup>3</sup>		
United Kingdom	WEL TWA (ppm)	5 ppm		
United Kingdom Regulatory reference EH40/2005 (Third edition, 2018). HSE				
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## 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.

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## Personal protective equipment:

#### Avoid all unnecessary exposure.

Hand protection:						
The protective gloves	to be used must comp	ly with the specifications o	f the regulation 2016/425	and the resul	tant standard	EN 374
Туре	Material	Permeation	Thickness (mm)	Penetrati	on	Standard
Disposable gloves	Fluoroelastomer (FKM)	6 (> 480 minutes)	0.7			EN 374
Eye protection:						
	fountains should be av gainst liquid splashes.	ailable in the immediate vi	icinity of any potential ex	posure. Use e	ye protection	according to EN 166
Туре	Use		Characteristics		Standard	
Safety goggles, Face shield Droplet, vapours		tightly fitting safety goggles, With EN 166 side shields		EN 166		
Skin and body prote	ction:					
	owers should be availa ble for emergency use	ble in the immediate vicinit	y of any potential exposu	ire. Keep suita	able chemical	ly resistant protective
Туре			Standard			
	ective suits, gloves, an vith the product, Flame	l boots must be worn to retardant antistatic	EN 14605			

## **Respiratory protection:**

protective clothing

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

## 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	: 101.19 g/mol		
Colour	: Colourless.		
Odour	: No data available.		
Odour threshold	: No data available		
рН	: No data available		
Relative evaporation rate (butylacetate=1)	: No data available		
Melting point	: -61 °C		
Freezing point	: No data available		
Boiling point	: 84 °C		
Flash point	: -17 °C closed cup.		
Auto-ignition temperature	: 295 °C		
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	: 0.722 g/mL at 25 °C		
Solubility	: No data available		
Log Pow	: 0.4		
Viscosity, kinematic	: No data available		
Viscosity, dynamic	: No data available		

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Explosive properties	: No data available	
Oxidising properties	: No data available	
Lower explosive limit (LEL)	: 1.1 vol %	
Upper explosive limit (UEL)	: 8.5 vol %	
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.
10.5. Incompatible materials
Strong oxidizers. Strong acids. Strong bases. plastics.
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)	: Oral: Harmful if swallowed.
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Inhalation: Harmful if inhaled.
Diisopropylamine (108-18-9)	
LD50 oral rat	420 mg/kg
LD50 dermal rabbit	> 10000 mg/kg
LC50 inhalation rat (mg/l)	5.35 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.

us (three spined stickleback) 96hr
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EC50 Daphnia 1	110 mg/l Daphnia magna (water flea) 48hr	
12.2. Persistence and degradability		
Diisopropylamine (108-18-9)		
Persistence and degradability	No data available.	
12.3. Bioaccumulative potential		
Diisopropylamine (108-18-9)		
Log Pow	0.4	
Bioaccumulative potential	No data available.	
12.4. Mobility in soil		
No additional information available		
12.5. Results of PBT and vPvB assessment		
Diisopropylamine (108-18-9)		
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**

n accordance with ADR / RID	/ IMDG / IATA / ADN			
ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number				
1158	1158	1158	1158	1158
14.2. UN proper shipping	14.2. UN proper shipping name			
DIISOPROPYLAMINE	DIISOPROPYLAMINE	Diisopropylamine	DIISOPROPYLAMINE	DIISOPROPYLAMINE
Transport document descr	iption			
UN 1158 DIISOPROPYLAMINE (Diisopropylamine), 3 (8), II, (D/E)	UN 1158 DIISOPROPYLAMINE (Diisopropylamine), 3 (8), II (-7°C c.c.)	UN 1158 Diisopropylamine (Diisopropylamine), 3 (8), II	UN 1158 DIISOPROPYLAMINE (Diisopropylamine), 3 (8), II	UN 1158 DIISOPROPYLAMINE (Diisopropylamine), 3 (8), II
14.3. Transport hazard class(es)				
3 (8)	3 (8)	3 (8)	3 (8)	3 (8)
				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 informatio				
14.6. Special precautions	s for user			
Overland transport Classification code (ADR) Limited quantities (ADR)	: FC : 1I			

# Diisopropylamine Safety Data Sheet according to Regulation (EC) No. 1907/2006

according to Regulation (EC) No. 1907/2006 (REACH) with	its amendment Regulation (EU) 2015/830
Excepted quantities (ADR)	: E2
Packing instructions (ADR)	: P001, IBC02
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T7
Portable tank and bulk container special provisions (ADR)	: TP1
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 1158
Tunnel restriction code (ADR)	: D/E
EAC code	: •3WE
APP code	: A(fl)
Transport by sea	
Limited quantities (IMDG)	:1L
Excepted quantities (IMDG)	: E2
Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG)	: IBC02
Tank instructions (IMDG)	: T7
Tank special provisions (IMDG)	: TP1
EmS-No. (Fire)	: F-E
EmS-No. (Spillage)	: S-C
Stowage category (IMDG)	: B
Flash point (IMDG)	: -7°C c.c.
Properties and observations (IMDG)	: Colourless, volatile liquid with a fishy odour. Flashpoint: -7°C c.c. Explosive limits: 1.1% to 7.1% Partially miscible with water. Harmful by inhalation. Causes burns to skin, eyes 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
ERG code (IATA)	: 3CH
Inland waterway transport	
Classification code (ADN)	: FC
Limited quantities (ADN)	:1L
Excepted quantities (ADN)	: E2
Equipment required (ADN)	: PP, EP, EX, A
Ventilation (ADN)	: VE01
Number of blue cones/lights (ADN)	:1
Rail transport	
Classification code (RID)	: FC
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)	: T7
Portable tank and bulk container special provisions (RID)	: TP1
Tank codes for RID tanks (RID)	: L4BH

<b>Diisopropylamine</b> Safety Data Sheet	a its amondment Degulation (FLI) 2045/020
according to Regulation (EC) No. 1907/2006 (REACH) with Transport category (RID)	: 2
Colis express (express parcels) (RID)	: CE7
Hazard identification number (RID)	: 338
14.7. Transport in bulk according to Annex	
Not applicable	
SECTION 15: Regulatory information	
15.1. Safety, health and environmental reg	ulations/legislation specific for the substance or mixture
15.1.1. EU-Regulations	
No REACH Annex XVII restrictions Diisopropylamine is not on the REACH Candidate L Directive 2012/18/EU (SEVESO III)	list
15.1.2. National regulations	
Germany	
Reference to AwSV	: Water hazard class (WGK) 2, Significantly hazardous to water (Classification according to AwSV; ID No. 614)
12th Ordinance Implementing the Federal Immission Control Act - 12.BlmSchV	: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)
Netherlands	
SZW-lijst van kankerverwekkende stoffen	: Diisopropylamine is listed
SZW-lijst van mutagene stoffen	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: The substance is not listed
Denmark	
Classification remarks	: Emergency management guidelines for the storage of flammable liquids must be followed
Danish National Regulations	: Young people below the age of 18 years are not allowed to use the product
<b>15.2. Chemical safety assessment</b> No chemical safety assessment has been carried o	ut for the substance or the mixture by the supplier

<b>SECTION 16: Other inf</b>	ormation
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
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Flam. Liq. 2	Flammable liquids, Category 2
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H332	Harmful if inhaled.

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.