

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 2/10/2016 Revision date: 3/11/2019 Version: 1.1

SECTION 1: Identification of the subst	ance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Substance
Substance name	: Acetophenone
Chemical name	: acetophenone
IUPAC name	: 1-phenylethan-1-one
EC Index-No.	: 606-042-00-1
EC-No.	: 202-708-7
CAS-No.	: 98-86-2
Product code	: 29255823
Formula	: C18H24N6O6S4
Product group	: Raw material
1.2. Relevant identified uses of the substar	nce 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 dat Scafell Organics	a sheet
Molekula Ltd	
Lingfield Way	
Darlington - England	
T +44 (0) 1949 823777 / +44 (0) 7590 545705 info@molekula.com / kbowen@molekula.com - www	w.molekula.com
1.4. Emergency telephone number	
	+44 (0) 7590 545705
Emergency number :	+44 (0) 7590 545705
Emergency number : SECTION 2: Hazards identification	
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Emergency number : SECTION 2: Hazards identification	ure
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Emergency number SECTION 2: Hazards identification 2.1. Classification of the substance or mixt Classification according to Regulation (EC) No. Acute toxicity (oral), Category 4	ture 1272/2008 [CLP] H302
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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		
Name	Product identifier	%
Acetophenone	(CAS-No.) 98-86-2 (EC-No.) 202-708-7 (EC Index-No.) 606-042-00-1	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 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	: Inhalation may cause irritation (cough, short breathing, difficulty in breathing).
Symptoms/effects after skin contact	: May cause skin irritation. irritation (itching, redness, blistering).
Symptoms/effects after eye contact	: Causes serious eye irritation. Redness, pain. stinging. Tears.
Symptoms/effects after ingestion	: Swallowing this material may result in health hazard. Ingestion may cause nausea, vomiting and diarrhea.

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	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the substa	ance or 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	: 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	: Do not enter fire area without proper protective equipment, including respiratory protection.
Other information	: Warn all persons of toxic hazard.

SECTION 6: Accidental release meas	sures
6.1. Personal precautions, protective equ	Jipment and emergency procedures
General measures	: Isolate from fire, if possible, without unnecessary risk. No flames, no sparks. Eliminate all sources of ignition.
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. Do not breathe vapours. 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).
6.1.2. For emergency responders	
Protective equipment	: Equip cleanup crew with proper protection. Use self-contained breathing apparatus and chemically protective clothing.
Emergency procedures	: Ventilate area.

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

Methods for cleaning up

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	: Provide good ventilation in process area to prevent formation of vapour.				
Hygiene measures	: Take off immediately all contaminated clothing and wash it before reuse. 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 an	y incompatibilities				
Technical measures	: Ensure adequate ventilation, especially in confined areas.				
Storage conditions	: Keep container closed when not in use. Keep only in the original container in a cool, well ventilated place away from : Direct sunlight, Heat sources. Light sensitive. Protect from light.				
Incompatible products	: Strong oxidisers. Bases. Strong reducing agents.				
Incompatible materials	: Sources of ignition. Direct sunlight. Heat sources. Light.				
Heat and ignition sources	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.				
Storage area	: Store at ambient temperature. Store in a dark area. Store in a dry place. Store in a closed container.				
7.3. Specific end use(s)					
No additional information available					

Collect spillage. Store away from other materials.

No additional information available

SECTION 8: Exposure controls/personal protection							
8.1. Control parameters							
No additional information available							
8.2. Exposure controls							
ppropriate engineering	•						
andle in accordance with	h good indu	strial hygien	e and safety procedure	S.			
ersonal protective equ	ipment:						
void all unnecessary exp	posure.						
Hand protection:							
The protective gloves to be used must comply with the specifications of the regulation 2016/425 and the resultant standard EN 374							
The protective gloves to	be used mu	ist comply wi	th the specifications of	the regulation 2016/425	and the resul	tant standard	EN 374
	be used mu Material	ist comply wi	th the specifications of Permeation	the regulation 2016/425 Thickness (mm)	and the resul		EN 374 Standard
Туре			•				
Type Disposable gloves	Material		Permeation	Thickness (mm)			Standard
Туре	Material Butyl rubbe	r	Permeation 6 (> 480 minutes)	Thickness (mm) 0.3	Penetratio		Standard
Type Disposable gloves Eye protection:	Material Butyl rubbe	r	Permeation 6 (> 480 minutes)	Thickness (mm) 0.3	Penetratio		Standard
Type Disposable gloves Eye protection: Emergency eye wash for	Material Butyl rubbe	or uld be availa	Permeation 6 (> 480 minutes) ble in the immediate vie	Thickness (mm) 0.3	Penetration osure	on	Standard

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
Long sleeved 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

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Device	Filter type	Condition	Standard
Air-Purifying Respirator (APR), disposable	ABEK	Mist formation, Moist condition, Protection for Liquid particles, Vapour protection	EN 14387

Other information:

Do not eat, drink or smoke during use.

CECTION & Drugical and chamical	
SECTION 9: Physical and chemical 9.1. Information on basic physical and c	
Physical state	: Liquid
Molecular mass	: 120.15 g/mol
Colour	: Clear colourless-pale vellow.
Odour	: No data available.
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 19 - 20 °C lit.
Freezing point	: No data available
Boiling point	: 202 °C lit.
Flash point	: 76 °C closed cup
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: 1 hPa at 15 °C
Relative vapour density at 20 °C	: No data available
Relative density	: 1.03 g/cm3 at 25 °C
Solubility	: No data available
Log Pow	: 1.6
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Lower explosive limit (LEL)	: 1.4 vol %
Upper explosive limit (UEL)	: 5.2 vol %
9.2. Other information	

other information No additional information available

SECTION 10: Stability and reactivity
10.1. Reactivity
The product is non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability
Stable under recommended handling and storage conditions (see section 7).
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. Light.
10.5. Incompatible materials
Strong oxidizers. Bases. Strong reducing agents.
10.6. Hazardous decomposition products
No hazardous decomposition products known at room temperature. Thermal decomposition generates : Carbon oxides (CO, CO2).

: Oral: Harmful if swallowed.
: Not classified
: Not classified
815 mg/kg

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LD50 oral	16329 mg/kg		
Skin corrosion/irritation :	Not classified		
Additional information :	Based on available data, the classification criteria are not met		
Serious eye damage/irritation :	Causes serious eye irritation.		
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			
	Not classified		
Chronic aquatic toxicity :	Not classified		
Acetophenone (98-86-2)			
LC50 fish 1	162 mg/l - Pimephales promelas (fathead minnow) 96hr		
12.2. Persistence and degradability			
Acetophenone (98-86-2)			
Persistence and degradability	No data available.		
12.3. Bioaccumulative potential			
Acetophenone (98-86-2)			
Log Pow	1.6		
Bioaccumulative potential	No data available.		
12.4. Mobility in soil			
No additional information available			
12.5. Results of PBT and vPvB assessment			
Acetophenone (98-86-2)			
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			

13.1. Waste treatment methods		
Product/Packaging disposal recommendations		
Ecology - waste materials		

: Dispose in a safe manner in accordance with local/national regulations. : Avoid release to the environment.

SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / ADN

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ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number				
		Net regulated	Not no mulato d	Net re sulate d
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shipping na				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class	s(es)		1	1
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards	S			
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information av			-	
14.6. Special precautions for				
Overland transport				
Not regulated				
Transport by sea				
Not regulated				
Air transport Not regulated				
Inland waterway transport				
Not regulated				
Rail transport				
Not regulated				
14.7. Transport in bulk accor	rding to Annex II of	Marpol and the IBC Code		
Not applicable				
SECTION 15: Regulatory i	information			
15.1. Safety, health and envi		ons/legislation specific for	the substance or mixtur	9
15.1.1. EU-Regulations				
No REACH Annex XVII restrictions Acetophenone is not on the REAC				
Acetophenone is not on the REAC				
Directive 2012/18/EU (SEVESO III				
15.1.2. National regulations				
Germany				
Reference to AwSV	: Water hazard class (WGK) 1, Slightly hazardous to water (Classification according to			
		AwSV; ID No. 735)		
12th Ordinance Implementing the Immission Control Act - 12.BImScl		s not subject of the 12. BlmSch	/ (Hazardous Incident Ordinal	nce)
Netherlands				
SZW-lijst van kankerverwekkende	stoffen : 1	The substance is not listed		
SZW-lijst van mutagene stoffen		The substance is not listed		
NIET-limitatieve lijst van voor de v giftige stoffen – Borstvoeding		The substance is not listed		
NIET-limitatieve lijst van voor de v giftige stoffen – Vruchtbaarheid		The substance is not listed		
NIET-limitatieve lijst van voor de v giftige stoffen – Ontwikkeling	oortplanting : 1	The substance is not listed		
Denmark				
Class for fire hazard		Class III-1		
Store unit		50 liter Elammable according to the Dan	ich Ministry of Justice, Emer-	longy management
Classification remarks		Flammable according to the Dan guidelines for the storage of flan		
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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			
	: 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		
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2		
H302	Harmful if swallowed.		
H319	Causes serious eye 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.