

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 3/11/2019 Version: 1.0

SECTION 1: Identification of the sub	stance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Substance
Substance name	: Anisole
IUPAC name	: Methoxybenzene
EC-No.	: 202-876-1
CAS-No.	: 100-66-3
Product code	: 27131509
Formula	: C7H8O
Product group	: Raw material
0	tance 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 sheet
Scafell Organics Molekula Ltd	
Lingfield Way Darlington - England	
T +44 (0) 1949 823777 / +44 (0) 7590 545705	
info@molekula.com / kbowen@molekula.com - v	www.molekula.com
1.4. Emergency telephone number	
Emergency number	: +44 (0) 7590 545705
2.1. Classification of the substance or m Classification according to Regulation (EC) N Flammable liquids, Category 3	
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2	H319
Full text of H statements : see section 16	
Adverse physicochemical, human health and No additional information available	environmental effects
2.2. Label elements	
Labelling according to Regulation (EC) No. 12 Hazard pictograms (CLP)	
Signal word (CLD)	GHS02 GHS07
Signal word (CLP)	: Warning
Hazard statements (CLP)	: H226 - Flammable liquid and vapour. H315 - Causes skin irritation. H319 - Causes serious eye irritation.
Precautionary statements (CLP)	 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P302+P352 - IF ON SKIN: Wash with plenty of soap and water. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P370+P378 - In case of fire: Use dry extinguishing powder, dry sand to extinguish.
2.3. Other hazards This substance/mixture does not meet the PBT of	

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

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SECTION 3: Composition/information on i	ngredients	
3.1. Substances		
Name	Product identifier	%
Anisole	(CAS-No.) 100-66-3 (EC-No.) 202-876-1	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	: Never give anything by mouth to an unconscious person. If possible show this sheet, if not available show packaging or label. 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 immediate medical advice/attention.
4.2. Most important symptoms and effects, b	oth acute and delayed
Symptoms/effects after inhalation	: Inhalation may cause irritation (cough, short breathing, difficulty in breathing). May cause headache, nausea and irritation of respiratory tract.
Symptoms/effects after skin contact	: Irritation. Itching. Redness, pain.
Symptoms/effects after eye contact	: Causes serious eye irritation. Redness, pain. Tears. stinging.
Symptoms/effects after ingestion	: May cause irritation to the digestive tract. Abdominal pain, nausea.
4.3. Indication of any immediate medical atte	ntion and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures	
5.1. Extinguishing media Suitable extinguishing media	: Dry powder. Sand.
Unsuitable extinguishing media	
	: Do not use a heavy water stream.
5.2. Special hazards arising from the substa	
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).
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 measure	S
6.1. Personal precautions, protective equipm	ent and emergency procedures
General measures	: Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.
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.

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Emergency procedures	: Ventilate area.
6.2. Environmental precautions	
Prevent entry to sewers and public waters. Notify aut	horities if liquid enters sewers or public waters.
6.3. Methods and material for containment a	and cleaning up
Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

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	: 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 a	ny incompatibilities
Technical measures	: Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment.
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Keep container tightly closed.
Incompatible products	: Strong oxidisers.
Incompatible materials	: Sources of ignition. Direct sunlight. Heat sources.
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 away from heat. Store in a dry place. Store in a closed container.
7.3. Specific end use(s)	
No additional information available	

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.

Hand protection:							
The protective gloves to	o be used m	ust comply wi	th the specifications of th	ne regulation 2016/425	and the resul	tant standard	EN 374
Туре	Material		Permeation	Thickness (mm)	ess (mm) Penetratio		Standard
Disposable gloves	Nitrile rubb	er (NBR)	6 (> 480 minutes)	0.11			EN 374
Eye protection:							
Emergency eye wash f designed to protect aga			ble in the immediate vici	nity of any potential exp	osure. Use e	ye protection	according to EN 166
Туре Use		Characteristics		Standard			
Face shield, Safety goggles Droplet, vapours		tightly fitting safety goggles, With EN 166 side shields		EN 166			
Skin and body protec	tion:						
Emergency safety show clothing readily availab			n the immediate vicinity o	of any potential exposu	e. Keep suita	ble chemical	y resistant protective
Туре		Standard					
Total impervious protect prevent any contact wit protective clothing				EN 14605			

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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

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical p	
9.1. Information on basic physical and ch	
Physical state Molecular mass	: Liquid
	: 108.14 g/mol
Colour	: Clear, colourless.
Odour	: No data available.
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: -37 °C
Freezing point	: No data available
Boiling point	: 154 °C
Flash point	: 43 °C closed cup
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: 4.679 hPa at 25 °C
Relative vapour density at 20 °C	: No data available
Relative density	: 0.995 g/mL at 25 °C
Solubility	: No data available
Log Pow	: 2.62 at 30 °C
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
None under normal use.
10.4. Conditions to avoid
Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks.
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	1	
11.1. Information on toxicological effects		
Acute toxicity (oral)	: Not classified	
Acute toxicity (dermal)	: Not classified	
Acute toxicity (inhalation)	: Not classified	

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Anisole (100-66-3)	
LD50 oral rat	3700 mg/kg
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
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		
Anisole (100-66-3)			
LC50 fish 1	> 1 mg/l Danio rerio (zebra fish) 96hr		
EC50 Daphnia 1	11.05 mg/l Daphnia (water flea) 24hr		
12.2. Persistence and degradability			
Anisole (100-66-3)			
Persistence and degradability	No data available.		
12.3. Bioaccumulative potential	12.3. Bioaccumulative potential		
Anisole (100-66-3)			
Log Pow	2.62 at 30 °C		
Bioaccumulative potential	No data available.		
12.4. Mobility in soil			
No additional information available			
12.5. Results of PBT and vPvB assessment			
Anisole (100-66-3)			
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			
Other adverse effects :	Harmful to aquatic life.		
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

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	IMDG		IATA	ADN	RID
14.1. UN number					
2222	2222		2222	2222	2222
14.2. UN proper shipping	g name				1
ANISOLE	ANISOLE		Anisole	ANISOLE	ANISOLE
Transport document descri	iption				
UN 2222 ANISOLE (Anisole), 3, III, (D/E)	UN 2222 ANISOL (Anisole), 3, III (41°C		UN 2222 Anisole (Anisole), 3, III	UN 2222 ANISOLE (Anisole), 3, III	UN 2222 ANISOLE (Anisole), 3, III
14.3. Transport hazard c	lass(es)		' '		
3	3		3	3	3
					3
14.4. Packing group			11		1
III	III		III	III	III
14.5. Environmental haz	ards		I I		·
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : N)	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
No supplementary informatio			1		1
14.6. Special precautions	s for user				
Overland transport					
Classification code (ADR)		: F1			
Limited quantities (ADR)		: 5l : E1			
Excepted quantities (ADR) Packing instructions (ADR)					
Vixed packing provisions (ADR)	D)	: P0	01, IBC03, LP01, R001		
Portable tank and bulk contair	,	: T2			
(ADR) Portable tank and bulk contair	ner special provisions	: TP	1		
(ADR) Tank code (ADR)		: LG	BE		
/ehicle for tank carriage		: FL	ום		
Fransport category (ADR)		: 3			
Special provisions for carriage	e - Packages (ADR)	: V1	2		
Special provisions for carriage	e - Operation (ADR)	: S2			
Hazard identification number ((Kemler No.)	: 30			
Orange plates		:	30 2222		
Tunnel restriction code (ADR)		: D/E			
EAC code		: 3Y			
Transport by sea					
		· DO			
			01, LP01		
BC packing instructions (IMD	G)	: IBC	203		
BC packing instructions (IMD Fank instructions (IMDG)		: IBC : T2	203		
BC packing instructions (IMD Fank instructions (IMDG) Fank special provisions (IMDC		: IBC : T2 : TP	1		
BC packing instructions (IMD Tank instructions (IMDG) Tank special provisions (IMDC EmS-No. (Fire)		: IBC : T2 : TP : F-E	C03 1 =		
Packing instructions (IMDG) BC packing instructions (IMD Tank instructions (IMDG) Tank special provisions (IMDC EmS-No. (Fire) EmS-No. (Spillage) Stowage category (IMDG)		: IBC : T2 : TP	C03 1 =		

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Properties and observations (IMDG) : Colourless to yellow liquid. Flashpoint: 41°C c.c. Explosive limits: 0.3% to 6.3% Immiscible with water. Irritating to skin, eyes and mucous membranes. Air transport PCA Excepted quantities (IATA) : E1 PCA Limited quantities (IATA) : Y344 PCA limited quantity max net quantity (IATA) : 10L PCA packing instructions (IATA) : 355 PCA max net quantity (IATA) : 60L CAO packing instructions (IATA) : 366 CAO max net quantity (IATA) : 220L

	. 220L
ERG code (IATA)	: 3L
Inland waterway transport	
Classification code (ADN)	: F1
Limited quantities (ADN)	: 5 L
Excepted quantities (ADN)	: E1
Equipment required (ADN)	: PP, EX, A
Ventilation (ADN)	: VE01
Number of blue cones/lights (ADN)	: 0
Rail transport	
Classification code (RID)	: F1
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P001, IBC03, LP01, R001
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T2
Portable tank and bulk container special provisions (RID)	: TP1
Tank codes for RID tanks (RID)	: LGBF
Transport category (RID)	: 3
Special provisions for carriage – Packages (RID)	: W12
Colis express (express parcels) (RID)	: CE4
Hazard identification number (RID)	: 30

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

No REACH Annex XVII restrictions Anisole is not on the REACH Candidate List Directive 2012/18/EU (SEVESO III)

15.1.2. National regulations

Germany

Reference to AwSV

	AwSV; ID No. 21)
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	: The substance is not 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	
Class for fire hazard	: Class II-1
Store unit	: 5 liter

: Water hazard class (WGK) 2, Significantly hazardous to water (Classification according to

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Classification remarks

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	ther information : None.		
Full text of H- and EUH-statements:			
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2		
Flam. Liq. 3	Flammable liquids, Category 3		
Skin Irrit. 2	Skin corrosion/irritation, Category 2		
H226	Flammable liquid and vapour.		
H315	Causes skin irritation.		
H319	Causes serious eye irritation.		

flammable liquids must be followed

: R10 <H226;H315;H319>; Emergency management guidelines for the storage of

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.