

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Issue date: 10/15/2020 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	: Resorcinol
IUPAC name	: 1,3 benzenediol
EC-No.	: 203-585-2
CAS-No.	: 108-46-3
Product code	: 14076572
Formula	: C6H6O2
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
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	i sheet
Supplier	
Scafell Organics	
Molekula Ltd Lingfield Way	
Darlington - England	
T +44 (0) 3302 000 333	
info@molekula.com / kevinbanks@molekula.com - w	ww.molekula.com
1.4. Emergency telephone number Emergency number : -	+44 (0) 7769276927
SECTION 2: Hazards identification 2.1. Classification of the substance or mixtu	ire
Classification according to Regulation (EC) No. 1	272/2008 [CLP]
Acute toxicity (oral), Category 4	H302
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2	H319
Hazardous to the aquatic environment — Acute Haza	
Full text of H statements : see section 16	
Adverse physicochemical, human health and env	ironmental effects
No additional information available	
2.2. Label elements	
Labelling according to Regulation (EC) No. 1272/	2008 [CLP]
Hazard pictograms (CLP)	
	\vee \vee
	GHS07 GHS09
Signal word (CLP)	: Warning
Hazard statements (CLP)	: H302 - Harmful if swallowed.
× 7	H315 - Causes skin irritation.
	H319 - Causes serious eye irritation.
	H400 - Very toxic to aquatic life.
Precautionary statements (CLP)	: P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
	P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel
	unwell if you feel unwell.
	P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove
	contact lenses, if present and easy to do. Continue rinsing.
	EN (English) 1/8

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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	rmation on ingredients		
3.1. Substances			
Name	Product identifier	%	
Resorcinol	(CAS-No.) 108-46-3 (EC-No.) 203-585-2	100	
Full text of H-statements: see section 16	3		

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 effect	s, both acute and delayed
Symptoms/effects after inhalation	: Irritation to throat. Headache. Cough. Burning sensation.
Symptoms/effects after skin contact	: Causes skin irritation. Itching. Redness, pain.
Symptoms/effects after eye contact	: Causes serious eye irritation. redness, itching, tears. stinging.
Symptoms/effects after ingestion	: Harmful if swallowed. May cause irritation to the digestive tract. Abdominal pain, nausea.
4.0 In disation of such being distance disations	

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 measur	es
6.1. Personal precautions, protective equip	ment and emergency procedures
General measures	: Isolate from fire, if possible, without unnecessary risk. Avoid dust formation. 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. Avoid contact with skin, eyes and clothing.
Measures in case of dust release	: Keep upwind. Avoid creating or spreading dust. 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.

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Emergency procedures	: Ventilate area.	
6.2. Environmental precautions		
Prevent entry to sewers and public waters.	Notify authorities if product enters se	wers or public waters.
6.3. Methods and material for contain	nment and cleaning up	
Methods for cleaning up	: On land, sweep or show container for disposal.	el into suitable containers. Shovel or sweep up and put in a closed

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	: Avoid creating or spreading dust. Provide local exhaust or general room ventilation.
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	: Ensure adequate ventilation, especially in confined areas.
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. Air sensitive. Light sensitive.
Incompatible products	: Strong oxidizing agents. Iron. Iron salts.
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	: Store at ambient temperature. Store in a dry place. Store in a closed container.
7.2 Specific and use(s)	

7.3. Specific end use(s) For analytical purposes. Scientific research and development. Not for human consumption or veterinary purposes.

SECTION 8: Expos 8.1. Control paramet		rois/persc	onal protection				
No additional information							
8.2. Exposure contro	ols						
Appropriate engineerin	g controls:						
Handle in accordance wi	th good indu	strial hygien	e and safety procedures				
Personal protective eq	uipment:						
Avoid all unnecessary e	cposure.						
Materials for protectiv	e clothing:						
Wear suitable protective	e clothing, gl	oves and eye	e/face protection				
Hand protection:							
The protective gloves to	be used mu	ust comply wi	ith the specifications of t	he regulation 2016/425 ar	nd the resul	tant standard	EN 374
Туре	Material		Permeation	Thickness (mm)	Penetratio	on	Standard
Disposable gloves	Nitrile rubb	er (NBR)	6 (> 480 minutes)	0.11			EN 374
Eye protection:							
Emergency eye wash for designed to protect aga			ble in the immediate vici	nity of any potential expos	sure. Use e	ye protection	according to EN 166,
Туре		Use		Characteristics		Standard	
Safety goggles	afety goggles Fine dust, Dust tightly fitting safety goggles, With EN 166 side shields						
Skin and body protect	ion:						
Emergency safety show clothing readily available			n the immediate vicinity	of any potential exposure.	Keep suita	ble chemicall	y resistant protective
Туре				Standard			
Protective clothing (with	elasticated	cuffs and clo	sed neck)	EN ISO 13982			
Respiratory protection	1:						
Keep self contained bre protection equipment is			available for emergency	use. Where exposure thr	ough inhala	tion may occu	Ir from use, respiratory
10/15/2020 (Version: 1.0)			EN (E	nalish)			3/

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Device	Filter type	Condition	Standard
Respiratory protective device with a particle filter	Туре РЗ	Dust protection	EN 14387, EN 143

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical p	roportios	
9.1. Information on basic physical and cl		
Physical state	: Solid	
Appearance	: Flakes.	
Molecular mass	: 110.11 g/mol	
Colour	: white. Pale yellow.	
Odour	: No data available.	
Odour threshold	: No data available	
рН	: 4.5	
Relative evaporation rate (butylacetate=1)	: No data available	
Melting point	: 109 - 112 °C	
Freezing point	: No data available	
Boiling point	: 178 °C	
Flash point	: 127 °C	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: Non flammable.	
Vapour pressure	: No data available	
Relative vapour density at 20 °C	: No data available	
Relative density	: 1.28	
Solubility	: No data available	
Log Pow	: 0.8	
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		

9.2. 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.
10.5. Incompatible materials
Strong oxidizers. Iron. Iron salts.
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) :	Oral: Harmful if swallowed.
Acute toxicity (dermal) :	Not classified
Acute toxicity (inhalation) :	Not classified
Resorcinol (108-46-3)	
LD50 oral rat	510 mg/kg
LD50 dermal rabbit	2830 mg/kg

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Skin corrosion/irritation	: Causes skin irritation.
	pH: 4.5
Additional information	: Based on available data, the classification criteria are not met
Serious eye damage/irritation	: Causes serious eye irritation.
	рН: 4.5
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 : (acute)	Very toxic to aquatic life.	
Hazardous to the aquatic environment, long-term : (chronic)	Not classified	
Resorcinol (108-46-3)		
LC50 fish 1	29.5 mg/l Pimephales promelas (fathead minnow) - 96 h	
EC50 Daphnia 1	1 mg/l Daphnia magna (Water flea) - 48 h	
12.2. Persistence and degradability		
Resorcinol (108-46-3)		
Persistence and degradability	No data available.	
12.3. Bioaccumulative potential		
Resorcinol (108-46-3)		
Log Pow	0.8	
Bioaccumulative potential	No data available.	
12.4. Mobility in soil		
No additional information available		
12.5. Results of PBT and vPvB assessment		
Resorcinol (108-46-3)		
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		
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	: Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Avoid release to the environment.

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

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

			ADN	RID
	IWDG	IATA	AUN	RID
14.1. UN number		1		
2876	2876	2876	2876	2876
14.2. UN proper shippin	ig name			
RESORCINOL	RESORCINOL	Resorcinol	RESORCINOL	RESORCINOL
Transport document descr	ription			
UN 2876 RESORCINOL	UN 2876 RESORCINOL	UN 2876 Resorcinol	UN 2876 RESORCINOL	UN 2876 RESORCINOL
(Resorcinol), 6.1, III, (E), ENVIRONMENTALLY HAZARDOUS	(Resorcinol), 6.1, III, MARINE POLLUTANT/ENVIRONME NTALLY HAZARDOUS	(Resorcinol), 6.1, III, ENVIRONMENTALLY HAZARDOUS	(Resorcinol), 6.1, III, ENVIRONMENTALLY HAZARDOUS	(Resorcinol), 6.1, III, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard	class(es)			
6.1	6.1	6.1	6.1	6.1
6	6. ¥2			6
14.4. Packing group				
III	III			III
14.5. Environmental haz	zards			
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes
No supplementary information	on available	I		I
14.6. Special precaution				
Overland transport				
Classification code (ADR)	: T2			
Limited quantities (ADR)	: 5kg	-		
Excepted quantities (ADR)	: E1			
Packing instructions (ADR)		02, IBC08, LP02, R001		
Special packing provisions (A	,			
Mixed packing provisions (AE Portable tank and bulk contai		10		
(ADR)				
Portable tank and bulk contai (ADR)	ner special provisions : TP	33		
Tank code (ADR)	: SG	GAH, L4BH		
Tank special provisions (ADR	,	15, TE19		
Vehicle for tank carriage	: AT			
Transport category (ADR)	: 2			
Special provisions for carriage	()	1, VC2, AP7		
Special provisions for carriage unloading and handling (ADR		13, CV28		
Special provisions for carriage	e - Operation (ADR) : S9			
Hazard identification number	(Kemler No.) : 60			
Orange plates		60 2876		
Tunnel restriction code (ADR)) : E			
EAC code	: 2Z			
Transport by sea				
Packing instructions (IMDG)	: P0	02, LP02		
IBC packing instructions (IMD				
IBC special provisions (IMDG	6) : B3			

Safety Data Sheet

ulatio (ELI) 204E/020

according to Regulation (EC) No. 1907/2006 (REACH) with i	ts amendment Regulation (EU) 2015/830
Tank instructions (IMDG)	: T1
Tank special provisions (IMDG)	: TP33
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-A
Stowage category (IMDG)	: A
Properties and observations (IMDG)	: White to pink crystals. Soluble in water. Toxic if swallowed, by skin contact or by dust inhalation.
Air transport	
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y645
PCA limited quantity max net quantity (IATA)	: 10kg
PCA packing instructions (IATA)	: 670
PCA max net quantity (IATA)	: 100kg
CAO packing instructions (IATA)	: 677
CAO max net quantity (IATA)	: 200kg
ERG code (IATA)	: 6L
Inland waterway transport	
Classification code (ADN)	: T2
Special provisions (ADN)	: 802
Limited quantities (ADN)	: 5 kg
Excepted quantities (ADN)	: E1
Equipment required (ADN)	: PP, EP
Number of blue cones/lights (ADN)	: 0
Rail transport	
Classification code (RID)	: T2
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P002, IBC08, LP02, R001
Special packing provisions (RID)	: B3
Mixed packing provisions (RID)	: MP10
Portable tank and bulk container instructions (RID)	: T1
Portable tank and bulk container special provisions (RID)	: TP33
Tank codes for RID tanks (RID)	: SGAH, L4BH
Special provisions for RID tanks (RID)	: TU15
Transport category (RID)	: 2
Special provisions for carriage – Bulk (RID)	: VC1, VC2, AP7
Special provisions for carriage - Loading, unloading and handling (RID)	: CW13, CW28, CW31
Colis express (express parcels) (RID)	: CE11
Hazard identification number (RID)	: 60
14.7. Transport in bulk according to Annex I	I 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 Resorcinol is not on the REACH Candidate List 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.

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Very toxic to aquatic life.

Other information	: None.	
Full text of H- and EUH-statements:		
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
H302	Harmful if swallowed.	
H315	Causes skin irritation.	
H319	Causes serious eye irritation.	

SDS EU (REACH Annex II)

H400

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.