

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 3/13/2019 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	: DL-Tartaric acid
IUPAC name	: 2,3 dihydroxybutanedioic acid
EC-No.	: 205-105-7
CAS-No.	: 133-37-9
Product code	: 20981132
Formula	: C4H6O6
Product group	: Raw material
1.2. Relevant identified uses of the substance	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	i 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
<b>1.4. Emergency telephone number</b> Emergency number         : +	+44 (0) 7590 545705
SECTION 2: Hazards identification 2.1. Classification of the substance or mixtu	ire
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2.1. Classification of the substance or mixtu Classification according to Regulation (EC) No. 1 Skin corrosion/irritation, Category 2 Serious eye damage/eye irritation, Category 2 Specific target organ toxicity — Single exposure, Cat Respiratory tract irritation	<b>272/2008 [CLP]</b> H315 H319
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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	%
DL-Tartaric acid	(CAS-No.) 133-37-9 (EC-No.) 205-105-7	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). Headache.
Symptoms/effects after skin contact	: May cause moderate irritation, including burning sensation, tearing, redness or swelling. Itching.
Symptoms/effects after eye contact	: Causes serious eye irritation. redness, itching, tears. stinging.
Symptoms/effects after ingestion	: May cause irritation to the digestive tract. Abdominal pain, nausea.
<b>4.3. Indication of any immediate medical at</b> Get immediate medical advice/attention.	tention and special treatment needed

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 me 6.1. Personal precautions, protective	equipment 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.
Emergency procedures	: Ventilate area.
6.2. Environmental precautions	
Prevent entry to sewers and public waters. No	otify authorities if product enters sewers or public waters.

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6.3. Methods and material for containment and cleaning up

Methods for cleaning up

: On land, sweep or shovel into suitable containers. Shovel or sweep up and put in a closed container for disposal.

## 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	iny 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.
Incompatible products	: Strong oxidisers. Strong reducing agents.
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.
7.3. 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.

## Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:							
The protective gloves to b	e used mu	ist comply wi	th the specifications o	f the regulation 2016/425	and the resul	tant standard	I EN 374
Туре М	Material		Permeation	Thickness (mm)	Penetrati	on	Standard
Disposable gloves Nitrile rubber (NBR)		er (NBR)	6 (> 480 minutes)	0.11			EN 374
Eye protection:							
Emergency eye wash four designed to protect agains			ble in the immediate v	icinity of any potential ex	oosure. Use e	ye protection	according to EN 166
Туре		Use		Characteristics		Standard	
Safety goggles Fine dust, I		Fine dust, D	Pust	tightly fitting safety goggles, With side shields		EN 166	
Skin and body protection	n:						
Emergency safety shower clothing readily available f			n the immediate vicini	ty of any potential exposu	re. Keep suita	ble chemica	lly resistant protective
Туре				Standard			
Long sleeved protective clothing		EN ISO 13982					
Respiratory protection:							
Keep self contained breatl protection equipment is re			available for emergen	cy use. Where exposure	through inhala	ition may occ	cur from use, respirat
Device	Filter type Condition S				Standard		
Respiratory protective dev	vice with	Type P1 Ty	ine P2	Dust protection		EN 14387	

Device	Filter type	Condition	Standard
Respiratory protective device with a particle filter	Туре Р1, Туре Р2	Dust protection	EN 14387

### Other information:

Do not eat, drink or smoke during use.

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SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and che		
Physical state	: Solid	
Appearance	: Powder.	
Molecular mass	: 150.09 g/mol	
Colour	: White to off white.	
Odour	: No data available.	
Odour threshold	: No data available	
pH	: No data available	
Relative evaporation rate (butylacetate=1)	: No data available	
Melting point	: 210 - 212 °C lit.	
Freezing point	: No data available	
Boiling point	: No data available	
Flash point	: 210 °C closed cup.	
Auto-ignition temperature	: 425 °C	
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	: No data available	
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		
The product is non-reactive under normal conditions	of use, storage and transport.	
10.2. Chemical stability Stable under recommended handling and storage col	aditions (and contion 7)	
10.3. Possibility of hazardous reactions		
No dangerous reactions known under normal condition	ons of use	
10.4. Conditions to avoid		
	ices, sparks, open flames and other ignition sources. No smoking.	
10.5. Incompatible materials		
Strong oxidizers. Strong bases.		
10.6. Hazardous decomposition products		
No hazardous decomposition products known at roor	n temperature. Thermal decomposition generates : Carbon oxides (CO, CO2).	
<b>SECTION 11: Toxicological information</b>		
11.1. Information on toxicological effects		
Acute toxicity (oral)	: Not classified	
Acute toxicity (dermal)	: Not classified	
Acute toxicity (inhalation)	: Not classified	
Skin corrosion/irritation	: Causes skin irritation.	
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	
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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
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		
Acute aquatic toxicity :	Not classified	
Chronic aquatic toxicity :	Not classified	
12.2. Persistence and degradability		
DL-Tartaric acid (133-37-9)		
Persistence and degradability	No data available.	
12.3. Bioaccumulative potential		
DL-Tartaric acid (133-37-9)		
Bioaccumulative potential	No data available.	
12.4. Mobility in soil		
No additional information available		
12.5. Results of PBT and vPvB assessment		
DL-Tartaric acid (133-37-9)		
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		

SECTION 13: Disposal considerations	
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.

In accordance with ADR / RID / IMDG / IATA / ADN					
ADR	IMDG	ΙΑΤΑ	ADN	RID	
14.1. UN number					
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	
14.2. UN proper shipping name					
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	
14.3. Transport hazard class(es)					
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					
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	
No supplementary information	on available				
14.6. Special precaution	s for user				
Overland transport					
Not regulated					
Transport by sea					
lot regulated					

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### Air transport

Not regulated

## Inland waterway transport

Not regulated

### Rail transport

Not regulated

## 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 DL-Tartaric acid is not on the REACH Candidate List Directive 2012/18/EU (SEVESO III)

## 15.1.2. National regulations

### Germany

<b>,</b>	
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BImSchV (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	
Danish National Regulations	: Young people below the age of 18 years are not allowed to use the product
15.2 Chemical safety assessment	

15.2. Chemical safety assessment

No chemical safety assessment has been carried out for the substance or the mixture by the supplier

May cause respiratory irritation.

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:			
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2		
Skin Irrit. 2	Skin corrosion/irritation, Category 2		
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation		
H315	Causes skin irritation.		
H319	Causes serious eye irritation.		

SDS EU (REACH Annex II)

H335

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.