

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 3/19/2019 Version: 1.0

SECTION 1: Identification of the subs	tance/mixture and of the com	npany/undertaking	
1.1. Product identifier	. Outratan s		
Product form	: Substance		
Substance name	: Tri Sodium citrate dihydrate) hydroxy, triodium oelt dihydrote	
IUPAC name		2-hydroxy-, trisodium salt, dihydrate	
EC-No. CAS-No.	: 612-118-5		
CAS-NO. Product code	: 6132-04-3		
Froduct code	: 32357040 : C6H5Na3O7 · 2H2O		
	: Raw material		
Product group 1.2. Relevant identified uses of the substa		dagainst	
	ance of mixture and uses advise	u agailist	
1.2.1. Relevant identified uses	Laboratoria la destrial es a Des	for a dama dama	
Main use category	: Laboratory use,Industrial use,Pro	Tessional 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 d	ata sheet		
Supplier			
Scafell Organics Molekula Ltd			
Lingfield Way			
Darlington - Éngland			
T +44 (0) 1949 823777 / +44 (0) 7590 545705	un un statuta a sur		
info@molekula.com / kbowen@molekula.com - w	ww.molekula.com		
1.4. Emergency telephone number Emergency number	: +44 (0) 7590 545705		
SECTION 2: Hozarda identification			
SECTION 2: Hazards identification 2.1. Classification of the substance or mi	xture		
Classification according to Regulation (EC) No Not classified	5. 1272/2008 [CLP]		
Not classified			
Adverse physicochemical, human health and e	environmental effects		
No additional information available			
2.2. Label elements			
Not classified.			
2.3. Other hazards			
This substance/mixture does not meet the PBT cr			
This substance/mixture does not meet the vPvB c	riteria of REACH regulation, annex XIII		
SECTION 3: Composition/information	on ingredients		
3.1. Substances	Due due (111 - 117)	0/	
Name	Product identifier	%	
Tri Sodium citrate dihydrate	(CAS-No.) 6132-04-3	100	
	(EC-No.) 612-118-5		
3.2. Mixtures			
Not applicable			
SECTION 4: First aid measures			
4.1. Description of first aid measures	. If possible show this sheet if set	available show packaging or label. Never sive anything by	
First-aid measures general		a available show packaging or label. Never give anything by Do not leave affected person unattended.	
First-aid measures after inhalation	•	ctim to fresh air and keep at rest in a position comfortable	
	for breathing. Give oxygen or art	ificial respiration if necessary. If breathing difficulties	
	persist : Get medical advice/atter	ntion.	
First-aid measures after skin contact	: After contact with skin, take off ir	mmediately all contaminated clothing, and wash	

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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	: Not expected to present a significant hazard under anticipated conditions of normal use.	
Symptoms/effects after inhalation	: Dust of the product, if present, may cause respiratory irritation after an excessive inhalation exposure.	
Symptoms/effects after skin contact	: Dust may cause irritation in skin folds or by contact in combination with tight clothing.	
Symptoms/effects after eye contact	: May cause eye irritation. redness, itching, tears.	
Symptoms/effects after ingestion	: May cause irritation to the digestive tract. Abdominal pain, nausea.	
4.3. Indication of any immediate medical attention and special treatment needed		

Treat symptomatically.

SECTION 5: Firefighting measures	
5.1. Extinguishing media Suitable extinguishing media	· Feam Dry neurder Cerban diavide Weter array Sand
5 5	: 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	
Hazardous decomposition products in case of fire	: Carbon oxides (CO, CO2). Sodium 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	: 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	25
6.1. Personal precautions, protective equipr	
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. Notify aut	horities if product enters sewers or public waters.
6.3. Methods and material for containment a	
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 prote	ection.

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. Acids. Bases.
Incompatible materials	: Sources of ignition. Direct sunlight. Heat sources.

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: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

Storage area

smoking

: Store below 20 °C. 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 be used must comply with the specifications of the regulation 2016/425 and the resultant standard EN 374	
The protective dioves to be used must comply with the specifications of the requiation 2010/425 and the resultant standard EN 574	
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Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0.11		EN 374

Eye protection:

Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure. Use eye protection according to EN 166, designed to protect against powders and dusts.

Туре	Use	Characteristics	Standard
Safety glasses	Fine dust, Dust	With side shields	EN 166

Skin and body protection:

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 ISO 13982

Respiratory protection:

No respiratory protection needed under normal use conditions. [In case of inadequate ventilation] wear respiratory protection.

Device	Filter type	Condition	Standard
Dust mask	Туре Р1	Dust 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	: Solid	
Appearance	: Crystalline powder.	
Molecular mass	: 294.1 g/mol	
Colour	: White to off white.	
Odour	: No data available.	
Odour threshold	: No data available	
рН	: 7.5 - 9 at 29.4 g/l at 25 °C	
Relative evaporation rate (butylacetate=1)	: No data available	
Melting point	: > 300 °C lit.	
Freezing point	: No data available	
Boiling point	: 309.6 °C at 1,013 hPa	
Flash point	: No data available	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: Non flammable.	
Vapour pressure	: No data available	

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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 read	ctivity
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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. Strong reducing agents. Acids. Bases.

10.6. Hazardous decomposition products

No hazardous decomposition products known at room temperature. Thermal decomposition generates : Carbon oxides (CO, CO2). Sodium Oxides.

SECTION 11: Toxicological information	
11.1. Information on toxicological effects	
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Not classified
	pH: 7.5 - 9 at 29.4 g/l at 25 °C
Additional information	: Based on available data, the classification criteria are not met
Serious eye damage/irritation	: Not classified
	pH: 7.5 - 9 at 29.4 g/l at 25 °C
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	
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified

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12.2. Persistence and degradability	
Tri Sodium citrate dihydrate (6132-04-3)	
Persistence and degradability	No data available.
12.3. Bioaccumulative potential	
Tri Sodium citrate dihydrate (6132-04-3)	
Bioaccumulative potential	No data available.
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assessment	
Tri Sodium citrate dihydrate (6132-04-3)	
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
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				
ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shipping	g 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 haz	ards			
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary informatio	n available			
4.6. Special precautions	s for user			
Overland transport				
Not regulated				
ransport by sea				
Not regulated				
Air transport lot regulated				
nland waterway transport				

erway 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

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Tri Sodium citrate dihydrate is not on the REACH Candidate List Directive 2012/18/EU (SEVESO III)

15.1.2. National regulations

Germany

Germany	
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
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	tion
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.

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.