

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 5/17/2019 Version: 1.0

SI-G TON I TUETUI Callon OF the Substa	nce/mixture and of the company/undertaking		
1.1. Product identifier			
Product form	: Substance		
Substance name	: Basic chromic sulfate		
IUPAC name	: Chromium hydroxide sulphate		
EC-No.	: 619-674-8		
CAS-No.	: 39380-78-4		
Product code	: 89987567		
Formula	: Cr4(SO4)5(OH)2		
Product group	: Raw material		
1.2. Relevant identified uses of the substan	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	a shoot		
Supplier	a Sheet		
Scafell Organics			
Molekula Ľtd			
Lingfield Way			
Darlington - England T +44 (0) 1949 823777 / +44 (0) 7590 545705			
info@molekula.com / kbowen@molekula.com - www	/.molekula.com		
1.4. Emergency telephone number			
Emergency number : +44 (0) 7590 545705			
SECTION 2: Hazards identification			
2.1 Classification of the substance or mixt			
2.1. Classification of the substance or mixto	Ire		
Classification according to Regulation (EC) No. 1			
Classification according to Regulation (EC) No. 1	272/2008 [CLP]		
Classification according to Regulation (EC) No. 1 Skin corrosion/irritation, Category 1	272/2008 [CLP] H314		
Classification according to Regulation (EC) No. 1 Skin corrosion/irritation, Category 1 Full text of H statements : see section 16	272/2008 [CLP] H314		
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This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients				
3.1. Substances				
Name         Product identifier         %				
Basic chromic sulfate         (CAS-No.) 39380-78-4 (EC-No.) 619-674-8         100				
Full text of H-statements: see section 16				

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### 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	: Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea. Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. May be harmful if inhaled.
Symptoms/effects after skin contact	: Causes severe burns. May produce skin irritation, blistering, ulcers, and deep scarring. Cracking of the skin. Redness, pain.
Symptoms/effects after eye contact	: Causes serious eye burns. redness, itching, tears. stinging. More severe symptoms are also possible.
Symptoms/effects after ingestion	: Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. Symptoms of ingestion include drowsiness, weakness, headache, dizziness, nausea, vomiting. Ingestion may cause nausea, vomiting and diarrhea.

## 4.3. Indication of any immediate medical attention and special treatment needed

Immediately call a POISON CENTER/doctor.	

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	: None known.
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 measures				
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. Notify authorities 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.			

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### 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	any 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.
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 below 20 °C. Store in a dry place. Store in a closed container.
7.3. Specific end use(s)	
No additional information available	

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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					
Type Material Permeation Thickness (mm) Penetration Standard					
Disposable gloves Butyl rubber 6 (> 480 minutes) 0.3 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 goggles, Face shield	Fine dust, Dust	tightly fitting safety goggles, 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

Standard
EN ISO 13982

### **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
Respiratory protective device with a particle filter	Туре РЗ	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 ch	nemical properties	
Physical state	: Solid	
Appearance	: Powder.	
Molecular mass	: 722.32 g/mol	
Colour	: dark green.	
Odour	: No data available.	
Odour threshold	: No data available	
рН	: No data available	
Relative evaporation rate (butylacetate=1)	: No data available	
Melting point	: No data available	
Freezing point	: No data available	
Boiling point	: No data available	
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	
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 co	nditions (see section 7).			
10.3. Possibility of hazardous reactions				
No dangerous reactions known under normal condition	ons of use.			
10.4. Conditions to avoid				
	aces, sparks, open flames and other ignition sources. No smoking.			
10.5. Incompatible materials				
Strong oxidizers.				
10.6. Hazardous decomposition products	n temperature			
No hazardous decomposition products known at roor	n temperature.			
SECTION 44. Toxicological information				
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	: Causes severe skin burns and eye damage.			
Additional information	: Based on available data, the classification criteria are not met			
Serious eye damage/irritation	: Serious eye damage, category 1, implicit			
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	: 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	
	Not classified	
	Not dassined	
12.2. Persistence and degradability		
Basic chromic sulfate (39380-78-4)		
Persistence and degradability	No data available.	
12.3. Bioaccumulative potential		
Basic chromic sulfate (39380-78-4)		
Bioaccumulative potential	No data available.	
12.4. Mobility in soil		
No additional information available		
12.5. Results of PBT and vPvB assessment		
Basic chromic sulfate (39380-78-4)		
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	: 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				
ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number	·			
1759	1759	1759	1759	1759
14.2. UN proper shipping	g name			
CORROSIVE SOLID, N.O.S.	CORROSIVE SOLID, N.O.S.	Corrosive solid, n.o.s.	CORROSIVE SOLID, N.O.S.	CORROSIVE SOLID, N.O.S.
Transport document descr	iption			
UN 1759 CORROSIVE SOLID, N.O.S. (Basic chromic sulfate), 8, II, (E)	UN 1759 CORROSIVE SOLID, N.O.S. (Basic chromic sulfate), 8, II	UN 1759 Corrosive solid, n.o.s. (Basic chromic sulfate), 8, II	UN 1759 CORROSIVE SOLID, N.O.S. (Basic chromic sulfate), 8, II	UN 1759 CORROSIVE SOLID, N.O.S. (Basic chromic sulfate), 8, II
14.3. Transport hazard class(es)				
8	8	8	8	8
	8		8	

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<u> </u>		<u> </u>		
14.4. Packing group				
II	II	II	II	II
14.5. Environmental haz	ards			
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
No supplementary information	n available			
14.6. Special precautions	for user			
Overland transport				
Classification code (ADR)	: C1			
Special provisions (ADR)	: 27			
Limited quantities (ADR)	: 1k			
Excepted quantities (ADR)	: E2			
Packing instructions (ADR) Special packing provisions (AI		02, IBC08		
Mixed packing provisions (AD				
Portable tank and bulk contain		10		
(ADR)				
Portable tank and bulk contain (ADR)	ner special provisions :TP	33		
Tank code (ADR)	: SG	AN, L4BN		
Vehicle for tank carriage	: AT			
Transport category (ADR)	: 2			
Special provisions for carriage		1		
Hazard identification number (	(Kemler No.) : 80			
Orange plates		80 1759		
Tunnel restriction code (ADR)	: E			
EAC code	: 2X			
Transport by sea				
Special provisions (IMDG)	: 27			
Packing instructions (IMDG)	: P0			
IBC packing instructions (IMD)	,			
IBC special provisions (IMDG) Tank instructions (IMDG)	) : B2 : T3	1, B4		
Tank special provisions (IMDG)				
EmS-No. (Fire)	: F-/			
EmS-No. (Spillage)	: S-I			
Stowage category (IMDG)	: A			
Properties and observations (I	MDG) : Ca	uses burns to skin, eyes and r	nucous membranes.	
Air transport				
PCA Excepted quantities (IAT	A) : E2			
PCA Limited quantities (IATA)	: Y8	44		
PCA limited quantity max net of	quantity (IATA) : 5kg	3		
PCA packing instructions (IAT	(A) : 85	9		
PCA max net quantity (IATA)	: 15	٨g		
CAO packing instructions (IAT	TA) : 86	3		
CAO max net quantity (IATA)	: 50	-		
Special provisions (IATA)		, A803		
ERG code (IATA)	: 8L			
Inland waterway transport		0		
Classification code (ADN)	: C1			
Special provisions (ADN)	: 27			
Limited quantities (ADN) Excepted quantities (ADN)	: 1 k : E2			
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Equipment required (ADN)	: PP, EP
Number of blue cones/lights (ADN)	: 0
Rail transport	
Classification code (RID)	: C10
Special provisions (RID)	: 274
Excepted quantities (RID)	: E2
Packing instructions (RID)	: P002, IBC08
Special packing provisions (RID)	: B4
Mixed packing provisions (RID)	: MP10
Portable tank and bulk container instructions (RID)	: T3
Portable tank and bulk container special provisions (RID)	: TP33
Tank codes for RID tanks (RID)	: SGAN, L4BN
Transport category (RID)	: 2
Special provisions for carriage – Packages (RID)	: W11
Colis express (express parcels) (RID)	: CE10
Hazard identification number (RID)	: 80
14.7 Transport in bulk according to Appavel	I of Marpol and the IRC Code

**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 Basic chromic sulfate is not on the REACH Candidate List Directive 2012/18/EU (SEVESO III)

## 15.1.2. National regulations

### Germany

	Sonnany	
	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	
	Danish National Regulations	: Young people below the age of 18 years are not allowed to use the product
	15.2. Chemical safety assessment	
No chamical adjate accomment has been carried out for the substance or the mixture by the supplier		

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

SECTION 16: Other in	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	: None.		
Full text of H- and EUH-statements:			
Skin Corr. 1	Skin corrosion/irritation, Category 1		

## 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.

Causes severe skin burns and eye damage.

H314