

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 9/23/2019 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	: tert-Butyldimethylchlorosilane (TBSCI)
IUPAC name	: tert-butyl-chloro-dimethylsilane
EC-No.	: 242-042-4
CAS-No.	: 18162-48-6
Product code	: 38882574
Formula	: C6H15CISi
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
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 of	data 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 - y	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 m	ixture
Classification according to Regulation (EC) N	lo. 1272/2008 [CLP]
Flammable solids, Category 2	H228
Skin corrosion/irritation, Category 1C	H314
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)	
	GHS02 GHS05
Signal word (CLP)	: Danger
Hazard statements (CLP)	: Danger : H228 - Flammable solid. H314 - Causes severe skin burns and eye damage.
	: Danger : H228 - Flammable solid.
Hazard statements (CLP)	 Danger H228 - Flammable solid. H314 - Causes severe skin burns and eye damage. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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	%	
tert-Butyldimethylchlorosilane (TBSCI)	(CAS-No.) 18162-48-6 (EC-No.) 242-042-4	100	
Full text of H-statements: see section 16	·		

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	: 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.
Symptoms/effects after skin contact	: Causes severe burns. May produce skin irritation, blistering, ulcers, and deep scarring.
Symptoms/effects after eye contact	: Causes serious eye damage. May cause severe chemical burns to skin and cornea.
Symptoms/effects after ingestion	: May be harmful if swallowed. burns of the upper digestive and respiratory tracts, abdominal pain, bloody vomiting, severe damage to the delicate tissue and danger of perforation.

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	: Dry powder. Sand. Carbon dioxide. Foam. Water spray.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the substa	ince or mixture
Fire hazard	: Flammable solid.
Explosion hazard	: May form flammable/explosive vapour-air mixture.
Hazardous decomposition products in case of fire	: Carbon oxides (CO, CO2). Hydrogen chloride gas. Silicon oxides.
5.3. Advice for firefighters	
Precautionary measures fire	: Exposure to fire/heat: seal off low-lying areas. Keep container tightly closed and away from heat, sparks and flame. Keep away from combustible materials.
Firefighting instructions	: Evacuate area. Eliminate all ignition sources if safe to do so. Use water spray or fog for cooling exposed containers. Fight fire from safe distance and protected location. Keep upwind.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Use self-contained breathing apparatus and chemically protective clothing.
Other information	: Warn all persons of toxic hazard.

SECTION 6: Accidental release meas	sures
6.1. Personal precautions, protective equ	Jipment and emergency procedures
General measures	: Do not handle until all safety precautions have been read and understood. Ventilate the area thoroughly, especially low lying areas (basements, workpits etc). Proper grounding procedures to avoid static electricity should be followed.
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). Special attention should be given to low areas/pits where flammable vapours can accumulate.

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6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. Use self-contained breathing apparatus and chemically protective clothing.
Emergency procedures	: All equipment used when handling the product must be grounded. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. Stop leak if safe to do so.
6.2. Environmental precautions	
Prevent entry to sewers and public waters. Notify auth	orities if product enters sewers or public waters.

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 formation of dust. Avoid contact with skin, eyes and clothing. Do not handle until all safety precautions have been read and understood. Ensure that there is a suitable ventilation system. Do not handle in a confined space.
Hygiene measures	: Take off immediately all contaminated clothing and wash it before reuse. Contaminated work clothing should not be allowed out of the workplace. 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. Proper grounding procedures to avoid static electricity should be followed.
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. Moisture sensitive. Store contents under inert gas.
Incompatible products	: Strong oxidizing agents. Bases. alcohols. Metals.
Incompatible materials	: Sources of ignition. Direct sunlight. Heat sources. open flames. sparks. Moisture. Water, humidity.
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 below 20 °C. Store in dry protected location to prevent any moisture contact.
7.3. Specific end use(s)	

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

Emergency eye was designed to protect a			able in the immediate vi	cinity of any potential exp	oosure. Use e	eye protectior	n according to EN 166,
Eye protection:							
Disposable gloves	Nitrile rubb	er (NBR)	6 (> 480 minutes)	0.11		EN 374	
Туре	Material		Permeation	Thickness (mm)	Penetrati	on	Standard
The protective gloves	s to be used mu	ist comply w	ith the specifications of	f the regulation 2016/425	and the resu	ltant standar	d EN 374
Hand protection:							
Wear suitable protec	tive clothing, gl	oves and ey	e/face protection				
Materials for protec	tive clothing:						
void all unnecessary	exposure.						
ersonal protective	equipment:						
landle in accordance	with good indu	strial hygien	e and safety procedure	es.			
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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

prevent any contact with the product, Flame retardant antistatic	Туре	Standard
	Total impervious protective suits, gloves, and boots must be worn to prevent any contact with the product, Flame retardant antistatic protective clothing	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.

Appearance Colour Odour Odour threshold pH Relative evaporation rate (butylacetate=1) Melting point Freezing point Boiling point Flash point Auto-ignition temperature	: Solid : Crystalline powder. : White to off-white. : No data available.
Appearance Colour Odour Odour threshold pH Relative evaporation rate (butylacetate=1) Melting point Freezing point Boiling point Flash point Auto-ignition temperature	: Crystalline powder. : White to off-white. : No data available.
Colour Odour Odour threshold pH Relative evaporation rate (butylacetate=1) Melting point Freezing point Boiling point Flash point Auto-ignition temperature	: White to off-white. : No data available.
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Odour threshold pH Relative evaporation rate (butylacetate=1) Melting point Freezing point Boiling point Flash point Auto-ignition temperature	
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Freezing point Boiling point Flash point Auto-ignition temperature	: No data available
Boiling point Flash point Auto-ignition temperature	: 86 - 89 °C lit.
Flash point Auto-ignition temperature	: No data available
Auto-ignition temperature	: 125 °C lit.
······	: 22 °C closed cup.
	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Flammable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 0.87 g/cm3
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
Flammable solid.
10.2. Chemical stability
Flammable solid. In use may form flammable/explosive vapour-air mixture.
10.3. Possibility of hazardous reactions
Stable 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. Moisture. Water, humidity.
10.5. Incompatible materials
Strong oxidizers. Alcohols. Bases. Metals.

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10.6. Hazardous decomposition products

No hazardous decomposition products known at room temperature. Thermal decomposition generates : Carbon oxides (CO, CO2). Hydrogen chloride gas. Silicon 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	
tert-Butyldimethylchlorosilane (TBSCI) (18162-48-6)		
LD50 oral rat	> 2000 mg/kg	
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	
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
12.2. Persistence and degradability	
tert-Butyldimethylchlorosilane (TBSCI) (18162	-48-6)
Persistence and degradability	No data available.
12.3. Bioaccumulative potential	
tert-Butyldimethylchlorosilane (TBSCI) (18162	-48-6)
Bioaccumulative potential	No data available.
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assessment	
tert-Butyldimethylchlorosilane (TBSCI) (18162	-48-6)
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.
Additional information	: Handle empty containers with care because residual vapours are flammable.
Ecology - waste materials	: Avoid release to the environment.

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UN 2925 FLAMMABLE SOLD CONTOSING INCOMENTATION OF INCOMENTATION OF INCOMENTIAL OF INTERVISION OF INTERVISIONAL OF INTERVISIONAL	CORROSIVE, ORGANIC,	CORROSIVE, ORGANIC		CORROSIVE, ORGANIC,	CORROSIVE, ORGANIC
SOLID, CORROSIVE, Butydiametrychorosilane (TBSCI)), 4.1 (8), II SOLID, CORROSIVE, Earlydiametrychorosilane (TBSCI)), 4.1 (8), II SOLID, CORROSIVE, Butydiametrychorosilane (TBSCI)), 4.1 (8), II SOLID, CORROSIVE, Butydiametrychorosilane (TBSCI), 4.1 (8), II SOLID, CORROSIVE, DIAGON, CO.S. (III) SOLID, CORROSIVE, DIAGON, CO	Transport document descr	iption			
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$ \begin{array}{c c c c c c c } \hline \hline$	14.3. Transport hazard	class(es)			
II II II II II II II II II IA.5. Environmental hazards Dangerous for the environment : No Dangerous fore	4.1 (8)	4.1 (8)	4.1 (8)	4.1 (8)	4.1 (8)
II II II II II II II II II IA.5. Environmental hazards Dangerous for the environment : No Dangerous fore					
14.5. Environmental hazards Dargerous for the environment : No Dargerous for the environment : No Dangerous for the environment : No	14.4. Packing group				
Dangerous for the environment : No Vos supplementary information available 4.6. Special precautions for user Verland transport tassification code (ADR) : FC1 pecial provisions (ADR) : 274 imited quantities (ADR) : 1kg xcepted quantities (ADR) : P002, IBC06 lized packing provisions (ADR) : MP10 ortable tank and bulk container instructions : T3 DR) : SGAN ehcief for tank carriage : AT ransport category (ADR) : 2 pecial provisions for carriage - Packages (ADR) : 48 transport category (ADR) : 48 transport category (ADR) : E unnel restriction code (ADR) : E AC code : 1W ransport by sea : pecial provisions (IMDG) : 274, 915 acking instructions (IMDG) : 1BC06	II	II	П	II	П
environment : No Marine pollutant : No Marine pollutant : No Marine pollutant : No environment :	14.5. Environmental haz	ards			
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3C packing instructions (IMDG) : IBC06	Special provisions (IMDG)	: 2	74, 915		
3C packing instructions (IMDG) : IBC06	Packing instructions (IMDG)	: F	2002		
(23/2019 (Version: 1.0) EN (English)		G) : II	3C06		
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Safety Data Sheet

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

IBC special provisions (IMDG)	: B21
Tank instructions (IMDG)	: T3
Tank special provisions (IMDG)	: TP33
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-G
Stowage category (IMDG)	: D
Stowage and handling (IMDG)	: SW2
Properties and observations (IMDG)	: Causes burns to skin, eyes and mucous membranes.
Air transport	
PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA)	: Y441
PCA limited quantity max net quantity (IATA)	: 5kg
PCA packing instructions (IATA)	: 445
PCA max net quantity (IATA)	: 15kg
CAO packing instructions (IATA)	: 448
CAO max net quantity (IATA)	: 50kg
Special provisions (IATA)	: A3, A803
ERG code (IATA)	: 3C
Inland waterway transport	
Classification code (ADN)	: FC1
Special provisions (ADN)	: 274
Limited quantities (ADN)	: 1 kg
Excepted quantities (ADN)	: E2
Equipment required (ADN)	: PP, EP
Number of blue cones/lights (ADN)	: 1
Rail transport	
Classification code (RID)	: FC1
Special provisions (RID)	: 274
Excepted quantities (RID)	: E2
Packing instructions (RID)	: P002, IBC06
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
Transport category (RID)	: 2
Special provisions for carriage – Packages (RID)	: W1
Colis express (express parcels) (RID)	: CE10
Hazard identification number (RID)	: 48
14.7. Transport in bulk according to Annex I	I of Marpol and the IBC 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 tert-Butyldimethylchlorosilane (TBSCI) 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 in	formation	
Data sources	: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of December 2008 on classification, labelling and packaging of substances and mixtures, amending a repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.	
Other information	: None.	
0/22/2010 () (arajan: 1.0)		7/0

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

Full text of H- and EUH-statements:	
Flam. Sol. 2	Flammable solids, Category 2
Skin Corr. 1C	Skin corrosion/irritation, Category 1C
H228	Flammable solid.
H314	Causes severe skin burns and eye damage.

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.