

SAFETY DATA SHEET

Creation Date 03-Jul-2014

Revision Date 24-Dec-2021

Revision Number 6

1. IdentificationProduct Nametert-ButylchlorodimethylsilaneCat No. :AC183930000; AC183930050; AC183930250; AC183931000;
AC183935000CAS No
Synonyms18162-48-6
TBDMCl; tert-Butyldimethylsilyl chlorideRecommended Use
Uses advised againstLaboratory chemicals.
Food, drug, pesticide or biocidal product use.Details of the supplier of the safety data sheet

<u>Company</u> Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

Acros Organics One Reagent Lane Fair Lawn, NJ 07410

Emergency Telephone Number

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No.**US**:001-800-424-9300 / **Europe**:001-703-527-3887

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable solids Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation Specific target organ toxicity (single exposure) Target Organs - Respiratory system.

Category 2 Category 1 A Category 1 Category 3

Label Elements

Signal Word Danger

Hazard Statements Flammable solid Causes severe skin burns and eye damage May cause respiratory irritation



Precautionary Statements Prevention

Do not breathe dust/fume/gas/mist/vapors/spray

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

Use only outdoors or in a well-ventilated area

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Ground/bond container and receiving equipment

Use explosion-proof electrical/ventilating/lighting equipment

Response

Immediately call a POISON CENTER or doctor/physician

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Ingestion

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Toxic to aquatic life with long lasting effects

3. Composition/Information on Ingredients

Component		CAS No	Weight %	
Silane, chloro(1,1-dimethylethyl)dimethyl-		18162-48-6	>95	
	4. Firs	st-aid measures		
General Advice	Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.			
Eye Contact		Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required. Keep eye wide open while rinsing.		
Skin Contact		nmediately with soap and plenty of water while removing all contaminated shoes. Call a physician immediately.		

Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Call a physician or poison control center immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
Ingestion	Immediate medical attention is required. Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person.
Most important symptoms and effects	Causes burns by all exposure routes. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting: Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation
Notes to Physician	Treat symptomatically
	E Fire fighting measures

5. Fire-fighting measures

Suitable Extinguishing Media	CO $_{\mbox{\scriptsize 2}},$ dry chemical, dry sand, alcohol-resistant foam.
Unsuitable Extinguishing Media	DO NOT USE WATER
Flash Point	22 °C / 71.6 °F
Method -	No information available
Autoignition Temperature	405 °C / 761 °F
Explosion Limits Upper Lower Sensitivity to Mechanical Impac Sensitivity to Static Discharge	No data available No data available ct No information available No information available

Specific Hazards Arising from the Chemical

The product causes burns of eyes, skin and mucous membranes.

Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO₂). Chlorine. Silicon dioxide. Hydrogen chloride gas.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

<u>NFPA</u> Health 3	Flammability 3	Instability 1	Physical hazards N/A	
	6. Accidental rel	ease measures		
Personal Precautions Use personal protective equipment as required. Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing.				
Environmental Precautions Do not flush into surface water or sanitary sewer system.				
Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Do r Up expose spill to water.				
7. Handling and storage				
Handling Wear personal protective equipment/face protection. Do not get in eyes, on skin, or clothing. Use only under a chemical fume hood. Do not breathe dust. Do not ingest.				

	swallowed then seek immediate medical assistance. Do not allow contact with water.
Storage.	Flammables area. Purge open drums with nitrogen before resealing. Corrosives area. Keep away from water or moist air. Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials. Bases. Water. Strong oxidizing agents. Alcohols. Amines. Metals.
8. E>	posure controls / personal protection
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.
Engineering Measures	Use only under a chemical fume hood. Use explosion-proof electrical/ventilating/lighting equipment. Ensure that eyewash stations and safety showers are close to the workstation location.
Personal Protective Equipment	
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties				
Physical State	Solid			
Appearance	White			
Odor	No information available			
Odor Threshold	No information available			
рН	No information available decomp			
Melting Point/Range	85 - 91 °C / 185 - 195.8 °F			
Boiling Point/Range	125 °C / 257 °F @ 760 mmHg			
Flash Point	22 °C / 71.6 °F			
Evaporation Rate	Not applicable			
Flammability (solid,gas)	No information available			
Flammability or explosive limits				
Upper	No data available			
Lower	No data available			
Vapor Pressure	12 hPa @ 20 °C			
Vapor Density	Not applicable			
Specific Gravity	0.870			
Solubility	Hydrolyses			
Partition coefficient; n-octanol/water	No data available			
Autoignition Temperature	405 °C / 761 °F			
Decomposition Temperature	No information available			
Viscosity	Not applicable			
Molecular Formula	C6 H15 CI Si			
Molecular Weight	150.73			

10. Stability and reactivity

Reactive Hazard	Yes
Stability	Moisture sensitive.
Conditions to Avoid	Avoid dust formation. Incompatible products. Exposure to moist air or water. Keep away from open flames, hot surfaces and sources of ignition. Exposure to moisture.
Incompatible Materials	Bases, Water, Strong oxidizing agents, Alcohols, Amines, Metals
Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO ₂), Chlorine, Silicon dioxide, Hydrogen cl gas	
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information

Component Information			
Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Silane,	>2000 mg/kg (Rat)	Not listed	Not listed
chloro(1,1-dimethylethyl)dimethyl-			
Toxicologically Synergistic	No information available		
Products			

The toxicological properties have not been fully investigated

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Invitation	Courses hurse h		nonuro routoo
Irritation	Causes burns b	y all Ex	posule loules

Sensitization No information available

Carcinogenicity

Component CAS No IARC NTP ACGIH OSHA Mexico 18162-48-6 Not listed Silane, Not listed Not listed Not listed Not listed chloro(1,1-dimethyleth yl)dimethyl-No information available **Mutagenic Effects** No information available. **Reproductive Effects Developmental Effects** No information available. Teratogenicity No information available. STOT - single exposure Respiratory system STOT - repeated exposure None known Aspiration hazard No information available Symptoms / effects, both acute and Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, delayed tiredness, nausea and vomiting: Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation No information available **Endocrine Disruptor Information** Other Adverse Effects The toxicological properties have not been fully investigated.

Ecotoxicity

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment.

12. Ecological information

Persistence and Degradability	Persistence is unlikely based on information available.
Bioaccumulation/ Accumulation	No information available.
Mobility	Is not likely mobile in the environment.
	13. Disposal considerations

Waste Disposal Methods

national hazardous waste regulations to ensure complete and accurate classification.

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and

DOT		
UN-No	UN2921	
Proper Shipping Name	CORROSIVE SOLIDS, FLAMMABLE, N.O.S.	
Technical Name	Silane, chloro(1,1-dimethylethyl)dimethyl-	
Hazard Class	8	
Subsidiary Hazard Class	4.1	
Packing Group	l	
TDG		
UN-No	UN2921	
Proper Shipping Name	Corrosive solid, flammable, n.o.s.	
Hazard Class	8	
Subsidiary Hazard Class	4.1	
Packing Group	l	
<u>IATA</u>		
UN-No	UN2921	
Proper Shipping Name	Corrosive solid, flammable, n.o.s.	
Hazard Class	8	
Subsidiary Hazard Class	4.1	
Packing Group	I	
IMDG/IMO		
UN-No	UN2921	
Proper Shipping Name	Corrosive solid, flammable, n.o.s.	
Hazard Class	8	
Subsidiary Hazard Class	4.1	
Packing Group		
	15. Regulatory information	
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United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Silane, chloro(1,1-dimethylethyl)dimethyl-	18162-48-6	Х	ACTIVE	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed

'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Silane,	18162-48-6	-	Х	242-042-4	Х	Х	Х	Х	Х	97-3-163
chloro(1,1-dimethylethyl)dimethyl-										

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA - Occupational Safety and Health Administration	Not applicable
CERCLA	Not applicable
California Proposition 65	This product does not contain any Proposition 65 chemicals.
U.S. State Right-to-Know Regulations	Not applicable
U.S. Department of Transportation Reportable Quantity (RQ): DOT Marine Pollutant	N N

DOT Severe Marine Pollutant	Ν
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Authorisation/Restrictions according to EU REACH

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Silane, chloro(1,1-dimethylethyl)dimet hyl-	18162-48-6	Not applicable	Not applicable	Not applicable	Not applicable
Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)

Silane,	18162-48-6	Not applicable	Not applicable	Not applicable	Not applicable
chloro(1,1-dimethylethyl)dimet					
hyl-					

	16. Other information
Prepared By	Regulatory Affairs
	Thermo Fisher Scientific
	Email: EMSDS.RA@thermofisher.com
Creation Date	03-Jul-2014
Revision Date	24-Dec-2021
Print Date	24-Dec-2021
Revision Summary	This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS