

Revision number: 2 Revision date: 10/06/2014

1. IDENTIFICATION

tert-Butyldimethylchlorosilane [tert-Butyldimethylsilylating Agent] B0995

TCI AMERICA

SAFETY DATA SHEET

Product use: Restrictions on use:

Product name: Product code:

> For laboratory research purposes. Not for drug or household use.

Company:	Emergency telephone number:
TCI America	Chemical Emergencies:
9211 N. Harborgate Street	TCI America (8:00am - 5:00pm) PST
Portland, OR 97203 U.S.A.	+1-503-286-7624
Telephone:	Transportation Emergencies:
+1-800-423-8616 / +1-503-283-1681	Chemtrec 24-Hour
Fax:	+1-800-424-9300 (U.S.A.)
+1-888-520-1075 / +1-503-283-1987	+1-703-527-3887 (International)
e-mail:	Responsible department:
sales-US@TCIchemicals.com	TCI America
www.TCIchemicals.com	Environmental Health Safety and Security
	+1- 503-286-7624

2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200:

Eye Damage/Irritation [Category 1] Flammable Solids [Category 1] Skin Corrosion/Irritation [Category 1B]

Signal word:

Danger!

Hazard Statement(s):

Causes serious eye damage Causes severe skin burns and eye damage Flammable solid

Pictogram(s) or Symbol(s):





Precautionary Statement(s): [Prevention]	Do not breathe dusts or mists. Use only outdoors or in a well-ventilated area. Wear protective gloves,
	protective clothing, eye protection and face protection. Wear eye protection. Wear face protection (full length face shield). Keep away from heat, sparks, open flames or other hot surfaces No smoking. Ground or bond container and receiving equipment. Use explosion-proof electrical, ventilating, lighting, and equipment. Wear protective gloves, eye protection and face protection.
[Response]	If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or doctor. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of fire: Use dry chemical, CO2, sand, earth, water spray or regular foam to extinguish.
[Storage]	Store locked up.
[Disposal]	Dispose of contents and container in accordance with US EPA guidelines for the classification and determination of hazardous waste listed in 40 CFR 261.3. (See Section 13)

Hazards not otherwise classified: [HNOC] May develop pressure

3. COMPOSITION/INFORMATION	<u> </u>
Substance/Mixture:	Substance
Components:	tert-Butyldimethylchlorosilane [tert-Butyldimethylsilylating Agent]
Percent:	>98.0%(GC)
CAS Number:	18162-48-6
Molecular Weight:	150.72
Chemical Formula:	C ₆ H ₁₅ ClSi
Synonyms:	tert-Butylchlorodimethylsilane, tert-Butyldimethylsilyl Chloride, TBDMSCI, TBSCI
4. FIRST-AID MEASURES	
Inhalation:	Immediately call a poison center or doctor. Effects of exposure (inhalation) to substance may be delayed. Move victim to fresh air. Give artificial respiration if victim is not breathing. Administer oxygen if breathing difficult. Keep victim warm and quiet. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
Skin contact:	For severe burns, immediate medical attention is required. Immediately call a poison center or doctor. Remove and wash contaminated clothing before re-use. In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Treat symptomatically and supportively. Ensure that
Eye contact:	medical personnel are aware of the material(s) involved and take precautions to protect themselves. IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. Eye contact with vapors or substance may cause severe injury, burns, or death. Call emergency medical service. Mov victim to fresh air. Check for and remove any contact lenses. Keep victim warm and quiet. Treat symptomatically and supportively. Effects of exposure to substance may be delayed. Ensure that medical
Ingestion:	personnel are aware of the material(s) involved and take precautions to protect themselves. Do not induce vomiting with out medical advice. Call a physician or Poison Control Center immediately. D not use mouth-to-mouth method if victim ingested the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Loosen tight clothing such as a collar, tie, belt or waistband. If a person vomits place them in the recovery position so that vomit will not reenter the mouth and throat. Rinse mouth. Keep victim warm and quiet. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved an take precautions to protect themselves.
Symptoms/effects:	
Acute: Delayed:	Pain. Redness. No data available
Immediate medical attention:	WARNING: It might be hazardous to the person providing aid to give mouth-to-mouth respiration, because the inhaled material is corrosive. For severe burns, immediate medical attention is required. If breathing has stopped, perform artificial respiration. Use first aid treatment according to the nature of the injury. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
5. FIRE-FIGHTING MEASURES	
Suitable extinguishing media:	Dry chemical, CO_2 or water spray. Consult with local fire authorities before attempting large scale fire fighting operations.
Specific hazards arising from the cher	
Hazardous combustion products: Other specific hazards:	These products include: Carbon oxides Halogenated compounds Silicates WARNING: Highly toxic HCI gas is produced during combustion.
	ht streams. Dike fire-control water for later disposal; do not scatter the material. May re-ignite after fire is e fire or explosion hazard. Containers may explode when heated. Move containers from fire area if you can do
Special protective equipment for fire-f Wear positive pressure self-contained br	ighters: eathing apparatus (SCBA). Structural fire fighters' protective clothing provides limited protection in fire situation ations. Wear chemical protective clothing which is specifically recommended by the manufacturer. It may

provide little or no thermal protection.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Avoid contact with skin, eyes, and clothing. Keep people away from and upwind of spill/leak. Use sparkproof tools and explosion-proof equipment. Remove all sources of ignition. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing (Section 8). Warn unnecessary personnel to move away. Stop leak if you can do it without risk. Ensure adequate ventilation. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

6. ACCIDENTAL RELEASE MEASURES Personal protective equipment: Wear eye protection (splash goggles) and face protection (full length face shield). Lab coat. Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Wear protective gloves (nitrile). Emergency procedures: Prevent dust cloud. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in the immediate area). Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Warn personnel to move away. Prevent entry into sewers, basements or confined areas; dike if needed.

Methods and materials for containment and cleaning up:

ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). All equipment used when handling the product must be grounded. Stop leak if without risk. Ventilate the area. Absorb with an inert material and put the spilled material in an appropriate waste disposal container. Use clean non-sparking tools to collect absorbed material.

Environmental precautions:

Prevent further leakage or spillage if safe to do so. Water runoff can cause environmental damage. Prevent entry into sewers, basements or confined areas; dike if needed.

7. HANDLING AND STORAGE Precautions for safe handling: Avoid inhalation of vapor or mist. Manipulate under an adequate fume hood. Avoid contact with skin and eyes. DO NOT expose to friction or mechanical shock. Avoid formation of dust and aerosols. Keep away from heat and sources of ignition. Use explosion-proof equipment. Use only non-sparking hand tool when handling this product. Ground all equipment containing material. Take measures to prevent build up of electrostatic charge. Good general ventilation should be sufficient to control airborne levels. Keep rotection. When using do not eat, drink, or smoke. Keep away from sources of ignition. Store and use away from heat, sparks, open flame, or any other ignition source. Store locked up. Keep away from incompatibles. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Avoid prolonged storage periods. Store under inert gas (e.g. Argon). Moisture sensitive.

Storage incompatibilities:

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits:

No data available

Store away from oxidizing agents

Appropriate engineering controls:

Good general ventilation should be sufficient to control airborne levels. Ventilation is normally required when handling or using this product. Eyewash fountains should be provided in areas where there is any possibility that workers could be exposed to the substance. Follow safe industrial engineering/laboratory practices when handling any chemical.

Personal protective equipment

Respiratory protection:	Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent.
Hand protection:	Wear protective gloves.
Eye protection:	Safety glasses.
Skin and body protection:	Lab coat.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Form: Color: Odor: Odor threshold:	Solid Crystal - Powder White - Almost white No data available No data available		
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic Viscosity:	88°C (190°F) 125°C (257°F) No data available No data available No data available	pH: Vapor pressure: Vapor density: Dynamic Viscosity:	No data available 2kPa/20°C No data available No data available
Partition coefficient: n-octanol/water (log Pow)	No data available	Evaporation rate: (Butyl Acetate = 1)	No data available
Flash point: Flammability (solid, gas):	28°C (82°F) No data available	Autoignition temperature: Flammability or explosive limits: Lower: No data avail Upper: No data avail	

Solubility(ies):

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Soluble: Ether, Benzene, Toluene, Dichloromethane

10. STABILITY AND REACTIVITY

Reactivity:	Not Available.
Chemical Stability:	Moisture sensitive.
Possibility of Hazardous Reactions:	No hazardous reactivity has been reported.
Conditions to avoid:	Exposure to moisture. Moisture sensitive.
Incompatible materials:	Alcohols, Alkali, Bases, Moisture, Oxidizing agents
Hazardous Decomposition Products:	No data available

11. TOXICOLOGICAL INFORMATION

RTECS Number: VV2000000

Acute Toxicity: ipr-mus LDLo:1000 mg/kg

Skin corrosion/irritation: No data available

Serious eye damage/irritation: No data available

Respiratory or skin sensitization: No data available

Germ cell mutagenicity: No data available

Carcinogenicity:

No data available

IARC: No data available NTP:

No data available

OSHA: No data available

Reproductive toxicity:

No data available

Routes of Exposure:

Symptoms related to exposure:

Skin contact may produce burrns. Skin contact may result in inflammation; characterized by itching, scaling, reddening, or occasionally blistering. Eye contact can result in corneal damage or blindness.

Inhalation, Eye contact, Ingestion, Skin contact.

Potential Health Effects:

No specific information available; skin and eye contact may result in irritation. May be harmful if inhaled or ingested. Target organ(s): No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity Fish: Crustacea: Algae:	No data available No data available No data available
Persistence and degradability: Bioaccumulative potential (BCF): Mobillity in soil: Partition coefficient: n-octanol/water (log Pow)	No data available No data available No data available No data available
Soil adsorption (Koc): Henry's Law: constant (PaM ³ /mol)	No data available No data available

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13. DISPOSAL CONSIDERAT	
Disposal of product:	Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and Local
	rules and regulations. You may be able to dissolve or mix material with a combustible solvent and burn in a
	chemical incinerator equipped with an afterburner and scrubber system. This section is intended to provide
	assistance but does not replace these laws, nor does compliance in accordance with this section ensure
	regulatory compliance according to the law. US EPA guidelines for Identification and Listing of Hazardous
	Waste are listed in 40 CFR Parts 261. The product should not be allowed to enter the environment, drains, water ways, or the soil.
Disposal of container:	Dispose of as unused product. Do not re-use empty containers.
Other considerations:	Observe all federal, state and local regulations when disposing of the substance.

14. TRANSPORT INFORMATION

DOT (US) UN number: UN2925	Proper Shipping Name: Flammable solid, corrosive, organic, n.o.s.	Class or Division: 4.1 Flammable solid	Subrisk(s): 8 Corrosive material	Packing Group:
IATA UN number: UN2925	Proper Shipping Name: Flammable solid, corrosive, organic, n.o.s.	Class or Division: 4.1 Flammable solid	Subrisk(s): 8 Corrosive material	Packing Group: II
IMDG UN number: UN2925	Proper Shipping Name: Flammable solid, corrosive, organic, n.o.s.	Class or Division: 4.1 Flammable solid	Subrisk(s): 8 Corrosive material	Packing Group: II
EmS number:	F-A, S-G			
15. REGULATORY INFORMATION				

Toxic Substance Control Act (TSCA 8b.): This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.

US Federal Regulations

CERCLA Hazardous substance and Reportable Quantity:

SARA 313:	Not Listed
SARA 302:	Not Listed

State Regulations

State Right-to-Know

Massachusetts	Not Listed
New Jersey	Not Listed
Pennsylvania	Not Listed
California Proposition 65:	Not Listed

Other Information

NFPA Rating:

Health: 3 Flammability: 3 Instability: 1

HMIS Classification:

Health:	3
Flammability:	3
Physical:	1

International Inventories

WHMIS hazard class:	E: Corrosive material.
	B4: Flammable Solid.
Canada: NDSL	On NDSL
EC-No:	242-042-4

16. OTHER INFORMATION

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16. OTHER INFORMATION

TCI chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective gogles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.