SAFETY DATA SHEET

Oakwood Products, Inc
730 Columbia HWY N
Estill, SC 29918
www.oakwoodchemical.com

Phone Numbers:
- Product Information: 803-739-8800
- Transportation Emergency: 800-451-8346
- Outside the USA: 760-602-8700

MATERIAL IDENTIFICATION

NAME: tert-Butyldimethylchlorosilane
CAS#: [18162-48-6]
CAT#: 003869
For R&D use only.

HAZARDS IDENTIFICATION

GHS Classification
- Flammable liquids (Category 3)
- Skin corrosion/irritation (Category 1B)
- Serious eye damage/eye irritation (Category 1)

GHS Label elements, including precautionary statements

Pictograms

Signal Word: Danger

Hazard Statement(s)
- H226: Flammable liquid and vapour
- H314: Causes severe skin burns and eye damage
- H318: Causes serious eye damage

Precautionary Statement(s)
- P201: Obtain special instructions before use.
- P210: Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
- P240: Ground/bond container and receiving equipment.
- P260: Do not breathe dust/fume/gas/mist/vapours/spray.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.
- P301 + P330 + P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off Immediately all contaminated clothing. Rinse SKIN with water/shower.

P304 + P340 IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

**COMPOSITION/INFORMATION ON INGREDIENTS**

<table>
<thead>
<tr>
<th>CAS</th>
<th>Description</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>18162-48-6</td>
<td>tert-Butyldimethylchlorosilane</td>
<td>99%</td>
</tr>
</tbody>
</table>

**FIRST AID MEASURES**

**In case of eye contact**
Immediately flush eyes with running water for at least 15 minutes while keeping eyes open. Seek medical attention.

**In case of skin contact**
Wash thoroughly with soap and plenty of water. Seek medical attention.

**If inhaled**
Remove victim from source of exposure to fresh air. If breathing is difficult, administer oxygen. Seek medical attention.

**If swallowed**
Do not induce vomiting. Give water to victim to drink. Seek medical attention.

**FIRE-FIGHTING MEASURES**

**Suitable extinguishing media**
Use carbon dioxide, dry chemical powder, alcohol-resistant or polymer foam.

**Special protective equipment for fire-fighters**
Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

**Unusual fire and explosion hazards/decomposition of product**
emits toxic fumes under fire conditions.

**ACCIDENTAL RELEASE MEASURES**

**Personal precautions**
Use personal protective equipment. Avoid breathing fumes, vapors, mists or gas. Ventilate area. Remove all sources of ignition. Evacuate personnel.
Environmental precautions
Prevent further leakage if safe to do so.

Methods and materials for containment and clean up
Absorb spills on sand or vermiculite and place in closed container for disposal.

HANDLING AND STORAGE

Precautions for safe handling
Avoid prolonged use. Avoid all direct contact with material. Do not breathe dust or vapor. Wash thoroughly after handling.

Precautions for safe storage
Keep container tightly closed. Store in a cool, dry, well-ventilated area. Moisture sensitive.

EXPOSURE CONTROL/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Personal protective equipment

Eye/face protection
Wear protective safety goggles or face shields tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Hand/skin protection
Avoid all direct contact with product.
Wear chemical-resistant gloves.
Wear protective clothing and boots.
After contact with skin, wash immediately.

Respiratory protection
Ensure adequate ventilation during use. Approved respiratory equipment must be used when airborne concentrations are unknown or exceed the exposure limits.

PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>white solid</td>
</tr>
<tr>
<td>Odour</td>
<td>no data available</td>
</tr>
<tr>
<td>Odour Threshold</td>
<td>no data available</td>
</tr>
<tr>
<td>Melting point/Freezing Point</td>
<td>86-89°C</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>125°C</td>
</tr>
<tr>
<td>Flash Point</td>
<td>22°C-closed cup</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>no data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>no data available</td>
</tr>
<tr>
<td>Upper/Lower Flammability or Explosive limits</td>
<td>no data available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>no data available</td>
</tr>
<tr>
<td>Relative Density</td>
<td>0.81</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>no data available</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>no data available</td>
</tr>
</tbody>
</table>
## STABILITY AND REACTIVITY

**Chemical stability**
Stable under recommended storage conditions.

**Possibility of hazardous reactions**
Hydrolyses readily.

**Conditions to avoid**
Moisture.
Heat, flames and sparks. Extremes of temperature and direct sunlight.

**Incompatible materials**
Strong oxidizing agents, strong acids, strong bases, and alcohols.

**Hazardous decomposition products**
May evolve carbon monoxide, carbon dioxide, hydrogen chloride, and silicon oxides.

## TOXICOLOGICAL INFORMATION

**Acute toxicity**

**Oral LD50**
Rat - \(>2,000\) mg/kg

**Skin corrosion/irritation**
Causes severe skin burns and eye damage

**Serious eye damage/eye irritation**
Causes serious eye damage

**Respiratory or skin sensitization**
no data available

**Germ cell mutagenicity**
no data available

**Carcinogenicity**
no data available

**Reproductive toxicity**
no data available

**STOT-single exposure**
no data available

**STOT-repeated exposure**
no data available

**Aspiration hazard**

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**Physical properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto-ignition temperature</td>
<td>no data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>no data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>no data available</td>
</tr>
<tr>
<td>Refractive Index</td>
<td>no data available</td>
</tr>
</tbody>
</table>

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**Other information**

- **UN number**: UN2925
- **IATA code**: IATA
- **DOT number**: DOT
- **SARA 313**: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 313.
- **SARA 302**: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
- **SARA 302 Components**
- **SARA 311/312**: No special protective orthopaedic equipment required.
- **STOT**: No special protective orthopaedic equipment required.
- **PBT and vPvB assessment**: No data available
- **Mobility in soil**: No data available
- **Bioaccumulative potential**: No data available
- **Transport classification**: Flammable solids, corrosive, organic, n.o.s.
- **Hazardous waste**: No data available
- **Labeling**: Serious eye damage/eye irritation (Category 1)
- **GHS Label elements, including precautionary statements**
  - **Hazard statement(s)**
    - Corrosive to skin, eyes, and respiratory system
  - **Precautionary statement(s)**
    - P201: Keep out of reach of children
    - P260: IN CASE OF CONTACT WITH EYES: RINSE EYES WITH LARGE QUANTITIES OF CLEAN WATER FOR AT LEAST 15 MINUTES. SEEK MEDICAL ADVICE IMMEDIATELY.
    - P303 + P361 + P353: IN CASE OF SPILL OR LEAK: SPILL OR LEAK IS COMBUSTIBLE, COMBUSTIBLE FOGGER OR WATER SPRAY IS THE BEST FIGHTING MEDIA. DISCHARGE FLAMMABLE FUMES AND VAPORS. DISPOSE OF SPILLED MATERIALS IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. USE WITH A PROPERLY MAINTAINED EXHAUST SYSTEM. OBSERVE ALL FEDERAL, STATE AND LOCAL LAWS.
    - P280: WEAR PROTECTIVE EYE PROTECTION/SAFETY GLASSES AND FACE PROTECTION.
    - P310: KEEP OUT OF REACH OF CHILDREN.
    - P310: TAKE OFF IMMEDIATELY IF EXPOSURE IS GREAT.
    - P351+P338: IN CASE OF CONTACT: IMMEDIATELY NORMAL WASHING PROCEDURE.
    - P353: IN CASE OF SPILL OR LEAK: TAKE OFF IMMEDIATELY IF EXPOSURE IS GREAT.
    - P353+P373: PROTECT FACE, DISSOLVE OR MIX THE MATERIAL WITH A COMBUSTIBLE SOLVENT AND BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER. OBSERVE ALL FEDERAL, STATE AND LOCAL LAWS.
    - P360/361/362/363: IN CASE OF SPILL OR LEAK: CLAY, BAKING SODA, OR COAL SORBENT.MAY EVOLVE CARBON MONOXIDE, CARBON DIOXIDE, HYDROGEN CHLORIDE, AND SILICON OXIDES.

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**Additional Information**

- **Toxicity**: May have harmful effects if inhaled or swallowed.
- **Signs and symptoms of exposure**: May have harmful effects if inhaled or swallowed. Symptoms included burning sensation, cough, wheezing, laryngitis, shortness of breath, and skin irritation.
- **Respiratory protection**: Use personal protective equipment. Avoid breathing fumes, vapors, mists, or gas. Ventilate area.
- **Hand/skin protection**: Wear protective safety goggles or face shields tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).
- **Precautions for safe handling**: Stand upwind, avoid direct skin contact, avoid breathing dust or fumes. Wash thoroughly after handling. Avoid prolonged use. Avoid all direct contact with material. Do not breathe dust or vapor. Wash hands before eating, drinking or smoking.
- **Unusual fire and explosion hazards/decomposition of product**: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Use carbon dioxide, dry chemical powder, alcohol-resistant or polymer foam.
- **Precautionary Statement(s)**
  - P101: KEEP OUT OF REACH OF CHILDREN.
  - P110: IN CASE OF CONTACT: IMMEDIATELY NORMAL WASHING PROCEDURE.
  - P136: IN CASE OF FIRE: USE DRY CHEMICAL POWDER OR ALCOHOL-FREE FLAMMABLE FOAM TO EXTINGUISH FLAMES.
  - P161: IN CASE OF CONTACT: IMMEDIATELY NORMAL WASHING PROCEDURE.
  - P201: KEEP OUT OF REACH OF CHILDREN.
  - P260: IN CASE OF SPILL OR LEAK: SPILL OR LEAK IS COMBUSTIBLE, DISCHARGE FLAMMABLE FUMES AND VAPORS.
  - P261: IN CASE OF SPILL OR LEAK: SPILL OR LEAK IS COMBUSTIBLE, RECOMMENDimators, Special instructions before use. 22°C-closed cup, Keep away from heat/sparks/open flames/hot surfaces. No data available.
Exposure Routes
Corrosive to skin, eyes, and respiratory system. May have harmful effects if inhaled or swallowed.

Signs and Symptoms of Exposure
Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. Symptoms included burning sensation, cough, wheezing, laryngitis, shortness of breath, spasm, inflammation and edema of the larynx, spasm, inflammation, and edema of the bronchi, pneumonitis, pulmonary edema.

Additional Information
RTECS: VV2000000

To the best of our knowledge, the health hazards of this material have not been fully investigated.

ECOLOGICAL INFORMATION

Toxicity
no data available

Persistence and degradability
no data available

Bioaccumulative potential
no data available

Mobility in soil
no data available

PBT and vPvB assessment
no data available

Other adverse effects
no data available

DISPOSAL CONSIDERATIONS

Dissolve in or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all Federal, State and local laws.

TRANSPORT INFORMATION

**DOT**
Flammable solids, corrosive, organic, n.o.s.
4.1, 8
UN2925  II

**IMDG**
Flammable solid, corrosive, organic, n.o.s.
4.1, 8
UN2925  II
EMS-No: F-A, S-G
Marine Pollutant: No
tert-Butyldimethylchlorosilane

REGULATORY INFORMATION

SARA 302 Components
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
SARA 313: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 313.

New Jersey Right to Know Components
This product may contain a chemical on the New Jersey Right to Know Components List.

California Prop. 65 Components
This product does not contain a chemical known to the State of California to cause cancer, birth defects, or other reproductive harm.

OTHER INFORMATION

Version : 1.3
Revision Date : 3/12/2019

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. Oakwood shall not be held liable for any damage resulting from handling or from contact with the above product.