

MATERIAL SAFETY DATA SHEET



Date Issued: 10/25/2010
MSDS No: 2010.571

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT CODE: T2490
PRODUCT FORMULATION NAME: (Tridecafluoro-1,1,2,2-tetrahydrooctyl) -1-dimethylchlorosilane
MOLECULAR FORMULA: C₁₀H₁₀ClF₁₃Si

MANUFACTURER

UCT Specialties, Inc.
2731 Bartram Road
Bristol, PA 19007

Emergency Contact: Jon Telepchak
E-Mail: jtelepchak@unitedchem.com
Product Stewardship: 215-781-9255 ex141
Service Number: 717-247-0896

24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC (US Transportation) : 1-800-424-9300 or 1-703-527-3887

COMMENTS: For Research and Development Use Only

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: Clear liquid

POTENTIAL HEALTH EFFECTS

EYES: * Causes severe chemical burns. Conjunctivitis, corneal damage

SKIN: * Causes severe chemical burns. Corrosive- causes tissue destruction

INGESTION: * May cause sever chemical burns, may be harmful. Avoid contact

INHALATION: *Cause irritation or damage to lung. Harmful. Avoid contact

SIGNS AND SYMPTOMS OF OVEREXPOSURE

ACUTE TOXICITY: Liquid and vapors react with moisture on the skin, eyes and mucous membranes to release hydrogen chloride (corrosive)

Prolonged or repeated exposure and/or high concentrations of vapors will produce chemical burns and destruction of affected tissues. Respirable vapors or mist are irritating to the upper respiratory tract and bronchi. Inhalation may be fatal as a result of spasm, inflammation and edema of the lungs or larynx. Prolonged or widespread contact may result in the absorption of potentially harmful amount of material. If ingested, this material may cause severe burns of the mouth, pharynx, esophagus and stomach

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name

(Tridecafluoro- 1,1,2,2-tetrahydrooctyl) -1-dimethylchlorosilane

4. FIRST AID MEASURES

EYES: Flush with clean water for at least 15 minutes and consult physician

!!!!Get Medical Attention Immediately!!!!!!

SKIN: Scrub with soap and water. Remove contaminated clothing and shoes

INGESTION: Get medical attention

INHALATION: Remove victim to fresh air, give CPR or oxygen if necessary

COMMENTS: If symptoms persist, get medical attention

Never give anything by mouth to an unconscious person

5. FIRE FIGHTING MEASURES

FLASH POINT AND METHOD: 52°C (126°F) (Closed cup)

EXTINGUISHING MEDIA: Alcohol Foam, dry chemical, CO₂.

FIRE FIGHTING EQUIPMENT: Fire Fighters must wear positive- pressured, self-contained breathing apparatus and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES: Absorb spilled material with suitable chemical binder. Shovel absorbent into suitable waste container. Do not contaminate soil, groundwater, or surface water.

SPECIAL PROTECTIVE EQUIPMENT: Wear appropriate personal protective equipment as specified in section 8.

7. HANDLING AND STORAGE

HANDLING: Container requires grounding during use.

STORAGE: Store in a cool and dry place. Protect from moisture. Protect from heat, direct sunlight and sources of ignition. Store away from acidic, alkaline and oxidizing materials. Maintain tightly closed container. Provide adequate ventilation.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Local exhaust ventilation may be necessary to control any fume levels during the use of this product.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Use chemical goggles and face shield.

SKIN: Use impervious gloves. Use impervious clothing as necessary to protect against skin contact.

RESPIRATORY: Local exhaust required, Mechanical ventilation required

In case of exposure, use appropriate NOISH approved respiratory protection

WORK HYGIENIC PRACTICES: General industrial hygiene practice.

COMMENTS: To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29 CFR 1910.132) be conducted before using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

COLOR: Clear

VAPOR DENSITY: > 1

BOILING POINT: 189°C to 191°C /760mm

FLASH POINT AND METHOD: 52°C (126°F) (Closed cup)

SOLUBILITY IN WATER: Reacts

SPECIFIC GRAVITY: 1.473

10. STABILITY AND REACTIVITY

STABILITY: (UNDER NORMAL CONDITIONS): Stable under ordinary conditions of use and storage.

POLYMERIZATION: Hazardous polymerization will not occur

CONDITIONS TO AVOID: Contact with water and alcohols; Generates Hydrogen Chloride; TVL=C5ppm;
Contact with heat, sparks or other sources of ignition,

INCOMPATIBLE MATERIALS: oxidizing agents, alkali and acid

11. TOXICOLOGICAL INFORMATION

CARCINOGENICITY

IARC: No

NTP: No

OSHA: No

COMMENTS: Material generates Hydrogen Chloride on contact with water and alcohol.

Hydrochloric Acid (aqueous): Toxicity Data: ihl-hmn LCLo: 1300ppm/ 30 minutes; unk-man LDLo: 81 mg/kg; ihl-rat LC50: 3124ppm / 1 hour; ihl-mus LC50: 1180ppm/ 1 hour; ihl-man LCLo: 1000 mg/m3/ 2 hour; orl -rbt LD50: 900 mg/kg.

Hydrogen Chloride (gas): Toxicity Data: ihl-rat LC50: 5660ppm / 30 minutes; ihl- mus LC50: 2142ppm/ 30 minutes

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: No information available

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Follow all federal, state and local regulations.

EMPTY CONTAINER: Containers of this material may be hazardous when empty since they retain product residues(liquid); observe all warnings and precautions listed for this product.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Chlorosilanes, flammable, corrosive, n.o.s.

TECHNICAL NAME: ((Tridecafluoro-tetrahydrooctyl) dimethylchlorosilane)

PRIMARY HAZARD CLASS/DIVISION: 8

UN/NA NUMBER: UN2986

PACKING GROUP: II

NAERG: 29

LABEL: Corrosive, flammable liquid

15. REGULATORY INFORMATION

UNITED STATES

DOT LABEL SYMBOL AND HAZARD CLASSIFICATION

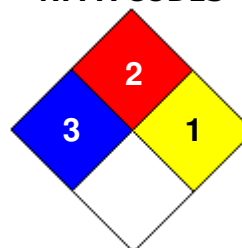
Flammable Liquid



Corrosive

TSCA (TOXIC SUBSTANCE CONTROL ACT)**TSCA STATUS:** This product is not listed on the TSCA Inventory.**16. OTHER INFORMATION****APPROVED BY:** Office of Env. Health Safety & Security **TITLE:** Dir. of Env. Health Safety & Security**PREPARED BY:** jnm**INFORMATION CONTACT:** jtelepchak@unitedchem.com**REVISION SUMMARY:** New MSDS**HMIS RATING**

HEALTH:	2
FLAMMABILITY:	3
PHYSICAL HAZARD:	1
PERSONAL PROTECTION:	

NFPA CODES**MANUFACTURER SUPPLEMENTAL NOTES:** All technical data is believed to be correct but does not purport to be all inclusive and shall be used only as a guide.**MANUFACTURER DISCLAIMER:** The data in this Material Safety Data Sheet relates only to the specific material designated herein.

It does not relate to use in combination with any other material or in any process.

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