

MATERIAL SAFETY DATA SHEET

RECORD NO.: P1037

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SECTION 1. NAME AND PRODUCT

T2490

NAME: T2490

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

CAS REG.NO.: NA

FORMULA: C10H10ClF13Si

SECTION 2. HAZARDOUS INGREDIENTS

T2490

COMPONENT

ACGIH TLV

OSHA PEL

 (Tridecafluoro-1,1,2,2-tetrahydrooctyl)-1-dimethyl-
 chlorosilane

NA

NA

For Research and Development Use Only

LEGEND:

- (+) This chemical is subject to the reporting requirements of SARA Title III Section 313 and 40CFR Part 372, and is potentially at the maximum concentration listed.
 (++) SARA Title III Section 302 Extremely Hazardous Substance
 (+++) CERCLA Hazardous Substance
 [00000-00-0] Chemical Abstracts Services Registry Number.

If no marks appear with a listed ingredient, then the ingredient is not included in any of the regulatory categories appearing in the Legend of this Material Safety Data Sheet.

SECTION 3. PHYSICAL DATA

T2490

APPEARANCE: Clear liquid

Acid-like odor.

B.PT.(deg.C/mm): 189-91/760

VAPOR PRESSURE(mm/deg.C): NA

M.PT.(deg.C): NA

VAPOR DENSITY(AIR=1): > 1

% SOLUBLE IN WATER: Reacts

SPECIF.GRAVITY: 1.473

% VOLATILE BY VOLUME: NA

SECTION 4. FIRE AND EXPLOSION HAZARD

T2490

FLASH POINT: 52 C (126 F) closed cup

FLAMMABLE LIMITS (STP IN AIR)

LOWER LIMITS: NA

UPPER LIMITS: NA

FIRE EXTINGUISHING MEDIA: 'Alcohol' foam, dry chemical, CO2.

PERSONAL PROTECTION FOR FIGHTING FIRE: Fire fighters must wear positive-pressure, self-contained breathing apparatus and full protective clothing.

SECTION 5. REACTIVITY DATA

T2490

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 STABILITY (UNDER NORMAL CONDITIONS): Stable
 CONDITIONS TO AVOID:
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Contact with water or alcohols
Generates hydrogen chloride; TLV=C5ppm
Contact with oxidizing agents.
Contact with alkali & acid.

Exposure to heat, sparks, or other source of ignition
HAZARDOUS POLYMERIZATION: Will not occur.
CONDITIONS TO AVOID:

NA

HMIS RATINGS (Scale 0-4)

HEALTH: 3

FLAMMABILITY: 2

REACTIVITY: 1

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SECTION 6. SPILL OR LEAK PROCEDURES

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T2490

IN CASE OF SPILL:

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

DISPOSAL METHOD:

Follow all federal, state, and local regulations.

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SECTION 7. HEALTH HAZARD DATA

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T2490

TOXICITY:

Material generates Hydrogen Chloride on contact with water and alcohols.

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: 1108ppm/ 1 Hour; ihl-mam LCLo:
1000mg/m3/ 2 Hours; orl-rbt LD50: 900mg/kg.

Hydrogen Chloride (gas):

Toxicity Data; ihl-rat LC50: 5660ppm/ 30 Minutes; ihl-mus LC50: 2142ppm/ 30
Minutes.

ROUTES AND EFFECTS OF EXPOSURE:

EYES: *Conjunctivitis, corneal damage. May cause severe chemical burns.

SEE NOTE(S) BELOW.

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

SEE NOTE(S) BELOW.

INHALATION: *Causes irritation or damage to lung. May be harmful. Avoid contact

SEE NOTE(S) BELOW.

INGESTION: *May be harmful. Avoid contact. May cause severe chemical burns.

SEE NOTE(S) BELOW.

NOTE:

Liquid and vapors react with moisture on the skin, eyes, and mucous membranes to release Hydrogen Chloride which is severely irritating to these tissues. Prolonged or repeated exposure and/or high concentrations of vapors will produce chemical burns and destruction of affected tissues. Respirable vapors or mists 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 amounts of material. If ingested, this material may cause severe burns

of the mouth, pharynx, esophagus, and stomach.

* The information provided here is based on published data for structurally analogous chemicals (not on bio-assay of this specific substance)

FIRST AID PROCEDURES:

EYES: Flush with clean water for at least 15 minutes and consult physician
!!!GET MEDICAL ATTENTION IMMEDIATELY!!!

SKIN: Scrub with soap and water

SKIN: Remove contaminated clothing and shoes

INHALATION: Remove victim to fresh air

INHALATION: Give CPR or oxygen if necessary

INGESTION: Get medical attention

---If symptoms persist, get medical attention---

---Never give anything by mouth to an unconscious person---

CARCINOGEN STATUS: NTP?: No IARC MONOGRAPH?: No OSHA REGULATED?: No

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SECTION 8. SPECIAL PROTECTION INFORMATION T2490
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VENTILATION:

Local exhaust required

Mechanical ventilation required

RESPIRATORY PROTECTION:

In case of exposure, use appropriate NIOSH approved respiratory protection

PROTECTIVE CLOTHING:

Use impervious gloves

Use impervious clothing as necessary to protect against skin contact

EYE PROTECTION:

Use chemical goggles and face shield

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SECTION 9. PRECAUTIONS OR OTHER COMMENTS T2490
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HANDLING AND STORAGE:

Store in a cool and dry place

Protect from moisture

Protect from heat, direct sunlight, and source of ignition

Containers require grounding during use

Maintain tightly closed container

Store away from alkaline, acidic, and oxidizing materials

Provide adequate ventilation

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

TECHNICAL NAME: ((Tridecafluoro-tetrahydrooctyl)dimethylchlorosilane)

HAZARD CLASS: 8 ID NO.: UN2986 PACKING GROUP: II ERG: 29

HAZARD LABEL(S): Corrosive, flammable liquid.

Since empty containers retain product residue, follow hazard precautions even after container is emptied.

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Prepared by UCT Environmental & Safety Department

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