

## MATERIAL SAFETY DATA SHEET

RECORD NO.: P360

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## SECTION 1. NAME AND PRODUCT

E6350

NAME: E6350

SYNONYMS: Ethyltrichlorosilane

CAS REG.NO.: 0000115-21-9 FORMULA: C<sub>2</sub>H<sub>5</sub>Cl<sub>3</sub>Si

## SECTION 2. HAZARDOUS INGREDIENTS

E6350

## COMPONENT

ACGIH TLV

OSHA PEL

Ethyltrichlorosilane, [115-21-9]

NA

NA

## 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

E6350

APPEARANCE: Clear liquid

Sharp, Hydrochloric Acid-like odor.

B.PT.(deg.C/mm): 93/760

VAPOR PRESSURE(mm/deg.C): 40

M.PT.(deg.C): NA

VAPOR DENSITY(AIR=1): &gt; 1

% SOLUBLE IN WATER: Reacts

SPECIF.GRAVITY: 1.24

% VOLATILE BY VOLUME: NA

## SECTION 4. FIRE AND EXPLOSION HAZARD

E6350

FLASH POINT: 16 C (60 F) closed cup

FLAMMABLE LIMITS (STP IN AIR)

LOWER LIMITS: NA

UPPER LIMITS: NA

FIRE EXTINGUISHING MEDIA: 'Alcohol' foam, dry chemical, CO<sub>2</sub>.

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

## SECTION 5. REACTIVITY DATA

E6350

STABILITY (UNDER NORMAL CONDITIONS): Stable

CONDITIONS TO AVOID:

Contact with water or moist air.  
Generates hydrogen chloride; TLV=C5ppm  
Contact with oxidizing agents.  
Contact with alkali & acid.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID:

NA

HMIS RATINGS (Scale 0-4)

HEALTH: 3

FLAMMABILITY: 3

REACTIVITY: 2

SECTION 6. SPILL OR LEAK PROCEDURES

E6350

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.

(1) Small Spills;

Evacuate spill area of all non-essential personnel, ventilate the spill area, cover liquid completely (smother) with dry sodium bicarbonate and blanket spill area with inert gas. Place absorbed material in a dry, lined waste container before transporting it for disposal. Keep all sources of ignition away from the spill area until clean-up is complete.

(2) Large Spills;

Evacuate spill area of all non-essential personnel, ventilate the spill area, and cover liquid completely with non-reactive high expansion foam. Use water mist to knock down any Hydrogen Chloride vapors that might be generated.

CAUTION: NEVER direct the hose stream into an unignited spill.

DISPOSAL METHOD:

Follow all federal, state, and local regulations.

SECTION 7. HEALTH HAZARD DATA

E6350

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 E6350  
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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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## 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: Ethyltrichlorosilane

HAZARD CLASS: 3 ID NO.: UN1196 PACKING GROUP: II ERG: 29

HAZARD LABEL(S): Flammable liquid, corrosive.

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

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Prepared by UCT Environmental &amp; Safety Department

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