

MATERIAL SAFETY DATA SHEET

Manufacturer: Strem Chemicals, Inc. Strem Customer Service (978) 499-1600

> 7 Mulliken Wav CHEMTREC (Emergency Only)

Newburyport, MA 01950-4098 U.S.A. Poison Center (800) 562-8236

(800) 424-9300

www.strem.com

Section 1: **Product Identification**

Chemical Name: Tris(dimethylamino)silane, 99+%, 14-8750, contained in 50 ml Swagelok® cylinder (96-1070) for CVD/ALD

Product Number: 98-4035 CAS Registry Number: 15112-89-7 Formula: [(CH3)2N]3SiH **EINECS Number:** 239-165-0

Chemical Family: organosilicon compounds

Synonym:

Section 2: **Composition and Information on Ingredients**

Ingredient **CAS Number** Percent **ACGIH (TWA)** OSHA (PEL) Title Compound 15112-89-7 100% no data no data

Section 3: **Hazards Identification**

Causes burns to skin, eyes and mucous membranes. Harmful if swallowed, inhaled or absorbed through the **Emergency Overview:**

Primary Routes of Exposure: Ingestion, inhalation, skin, eyes Eve Contact: Causes burns to the eves.

Skin Contact: Causes burns to the skin. May cause redness, itching and pain. Harmful through skin absorption.

Harmful through inhalation. Inhalation of vapors causes irritation, inflammation of the respiratory tract, edema Inhalation:

and chemical pneumonitis.

Ingestion: Harmful if swallowed. May cause nausea, vomiting and gastrointestinal tract burns.

Harmful through inhalation, ingestion and skin absorption. Causes burns to skin, eyes and mucous Acute Health Affects:

membranes. Ingestion may cause nausea, vomiting and gastrointestinal burns.

Chronic Health Affects: No information available on long-term chronic effects.

NTP: Nο IARC: Nο OSHA: Nο

SECTION 4: First Aid Measures

Immediately flush the eyes with copious amounts of water for at least 10-15 minutes. A victim may need Eye Exposure:

assistance in keeping their eye lids open. Get immediate medical attention.

Wash the affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if Skin Exposure:

irritation persists.

Remove the victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty Inhalation:

in breathing, coughing, wheezing, or pain. In such cases seek immediate medical assistance.

Seek medical attention immediately. Keep the victim calm. Give the victim water (only if conscious). Induce Ingestion:

vomiting only if directed by medical personnel.



MATERIAL SAFETY DATA SHEET

Manufacturer: Strem Chemicals, Inc. Strem Customer Service (978) 499-1600

> 7 Mulliken Wav CHEMTREC (Emergency Only)

Newburyport, MA 01950-4098 U.S.A. Poison Center (800) 562-8236

(800) 424-9300

www.strem.com

SECTION 5: Fire Fighting Measures

Flash Point: no data Autoignition Temperature: no data **Explosion Limits:**

Extinguishing Medium: carbon dioxide, foam or dry powder

If this product is involved in a fire, fire fighters should be equipped with a NIOSH approved positive pressure Special Fire Fighting Procedures:

self-contained breathing apparatus and full protective clothing.

Hazardous Combustion and

Burning material may emit toxic and corrosive fumes.

Decomposion Products:

Unusual Fire or Explosion Hazards: Flammable. No unusual fire or explosion hazards.

SECTION 6: Accidental Release Measures

Small spills can be mixed with vermiculite, sodium carbonate or other suitable non-combustible adsorbent and Spill and Leak Procedures:

swept up.

SECTION 7: Handling and Storage

Store the material in a cool, dry place in a tightly sealed container, under an inert atmosphere of nitrogen or Handling and Storage:

argon.

SECTION 8: Exposure Controls and Personal Protection

Eve Protection: Always wear approved safety glasses when handling a chemical substance in the laboratory.

Skin Protection: Wear protective clothing and gloves. Consult with glove manufacturer to determine the proper type of glove.

Ventilation: Handle the material in an efficient fume hood.

If ventilation is not available a respirator should be worn. The use of respirators requires a Respirator Respirator:

Protection Program to be in compliance with 29 CFR 1910.134.

Ventilation: Handle the material in an efficient fume hood.

Additional Protection: No additional protection required.

SECTION 9: Physical and Chemical Properties

Color and Form: colorless to light yellow liq.

Molecular Weight: 161.32 Melting Point: no data

145-148°C(4°/16 mm) **Boiling Point:**

Vapor Pressure: 16mm (4°C) Specific Gravity: 0.84 Odor: none Solubility in Water: insoluble

SECTION 10: Stability and Reactivity

Stability: air sensitive, moisture sensitive Hazardous Polymerization: no hazardous polymerization Conditions to Avoid: contact with heat and ignition sources

Incompatibility: strong oxidizing agents, strong acids and halogens

Decomposition Products: Carbon dioxide, carbon monoxide, silicon dioxide, organic fumes



RTECS Data:

MATERIAL SAFETY DATA SHEET

Manufacturer: Strem Chemicals. Inc

7 Mulliken Wav

Newburyport, MA 01950-4098 U.S.A.

www.strem.com

Strem Customer Service CHEMTREC (Emergency Only) (978) 499-1600 (800) 424-9300

Poison Center

(800) 562-8236

SECTION 11: Toxicological Information

Administration onto the skin(rabbit); Standard Draize Test: 10mg(mild). Administration into the eyes(rabbit);

Standard Draize Test: 5mg(severe). Oral(rat); LD50: 594mg/kg. Inhalation(rat); LC50: 38ppm/6H.

Administration onto the skin(rabbit); LD50: 477mg/kg.

Carcinogenic Effects: no data Mutagenic Effects: no data Tetratogenic Effects: no data

SECTION 12: Ecological Information

Ecological Information: No information available.

SECTION 13: Disposal Considerations

Dispose of this material according to local, state and federal regulations. Disposal:

SECTION 14: Transportation

Shipping Name (CFR): Water-reactive liquid, Corrosive, N.O.S.

Hazard Class (CFR): 4.3 Additional Hazard Class (CFR): 8 Packaging Group (CFR): Ш

UN ID Number (CFR): UN# 3129

Shipping Name (IATA): Water-reactive liquid, Corrosive, N.O.S.

Hazard Class (IATA): 4.3 Additional Hazard Class (IATA): 8 Packaging Group (IATA): П

UN ID Number (IATA): UN# 3129

SECTION 15: Regulatory Information

TSCA: Listed in the TSCA inventory

SARA (Title 313): Not reportable under SARA Title 313.

Second Ingredient: none Third Ingredient: none

SECTION 16: Other Information

The information herein is believed to be accurate and reliable as of the date compiled. However, Strem

Disclaimer: Chemicals, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information

contained in this document or any use of the product based on this information.

Preparation Date: 2/15/2013 Revision Date: 5/06/2014

Strem Chemicals, Inc. 7 Mulliken Way

Newburyport, MA 01950-4098 USA

Tel: (978) 499 1600 Fax: (978) 465 3104 Toll free (in USA & Canada)

Tel: (800) 647 8736 Fax: (800) 517 8736 info@strem.com

Strem Chemicals, Inc. 15, rue de l'Atome, Z.I. 67800 BISCHHEIM (France)

Tel: (33) 03 88 62 52 60 Fax: (33) 03 88 62 26 81 info.europe@strem.com

Strem Chemicals, Inc. Postfach 1215

77672 KEHL (Germany) Telefon: 0 78 51/7 58 79 info.europe@strem.com

Strem Chemicals UK, Ltd.

Newton Hall Town Street Newton

Cambridge, England CB22 7ZE

Tel: 0845 643 7263 Fax: 0845 643 7362 enquiries@strem.co.uk