

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: di-t-Butylsilane
CHEMICAL FAMILY: Organosilanes
MOLECULAR FORMULA: [t-C₄H₉]₂SiH₂
ALTERNATE TRADE NAME(S): DBS
GENERAL USE: Industrial Manufacturing

MANUFACTURER
FMC CORPORATION
Lithium Division
P.O. Box 795
Bessemer City, NC 28016-0795
General Information: (704) 868-5300

Emergency Telephone Numbers:
CHEMTREC (800) 424-9300
Emergency Phone (704) 629-5361 (Plant) Call Collect 24 Hr/Day
Emergency Phone (303) 595-9048 (Medical) Call Collect

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>CAS #</u>	<u>Wt.%</u>
Di-tert-butylsilane	30736-07-3	97

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

IMMEDIATE CONCERNS: Flammable liquid. Clear liquid with a faint odor.
POTENTIAL HEALTH EFFECTS: Eye irritant. May be corrosive or irritating to eyes and skin, nose and throat.

COMMENTS:
(See Section 11, Toxicological Information)

4. FIRST AID MEASURES

EYES: Immediately flush with water for at least 15 minutes, lifting the upper and lower eyelids intermittently. See a medical doctor or ophthalmologist immediately.

SKIN: Immediately flush with plenty of water while removing contaminated clothing and/or shoes, and thoroughly wash with soap and water. Obtain immediate medical attention. Contact a medical doctor if necessary.

INGESTION: Rinse mouth with water. Dilute by giving 1 or 2 glasses of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. See a medical doctor immediately.

INHALATION: Remove to fresh air. If breathing discomfort occurs and persists, see a medical doctor. If breathing has stopped, give artificial respiration and see a medical doctor immediately.

NOTES TO MEDICAL DOCTOR:

This product may be severely irritating to the eyes, skin and mucous membranes. Treatment is controlled removal of exposure with symptomatic and supportive care.

5. FIRE FIGHTING MEASURES

FLAMMABLE LIMITS: Upper: Not available Lower: Not available.
GENERAL HAZARD: Flammable liquid.
EXTINGUISHING MEDIA: Dry chemical, CO₂, water spray or regular foam.
HAZARDOUS COMBUSTION PRODUCTS: Carbon dioxide, carbon monoxide, and silicon oxide.
FIRE FIGHTING PROCEDURES: Wear full protective clothing and self-contained breathing apparatus (SCBA) approved for fire fighting. This is necessary to protect against the hazards of heat, products of combustion and oxygen deficiency. Do not breathe smoke, gases or vapors generated.
AUTOIGNITION TEMPERATURE: Not available
PROPERTIES CONTRIBUTING TO FLAMMABILITY: Volatility of liquid.
FLASH POINT: 5 °C
SENSITIVITY TO STATIC DISCHARGE: Not available
SENSITIVITY TO IMPACT: No

COMMENTS:
(See Section 10, Stability and Reactivity)

6. ACCIDENTAL RELEASE MEASURES

RELEASE NOTES: Remove all sources of ignition. Do not use water in the initial phases of clean up. Contain spill with absorbant. Transfer to approved transport container and clean up spillage with an absorbant. Dispose of waste according to local and Federal laws and regulations. Before cleanup measures begin, review the entire MSDS with particular attention to Section 3, Emergency Overview and Potential Health Effects; and Section 8, Recommended Personal Protective Equipment.

7. HANDLING AND STORAGE

HANDLING: Do not get in eyes, on skin or clothing. Do not breathe vapors or mist. Wash thoroughly after handling.
STORAGE: Store in a cool place. Keep container closed. Keep away from sources of ignition, water, air, acids and oxidizing agents. For best quality, protect product from moisture which degrades product.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS

<u>Chemical Name</u>	<u>TWA (ACGIH)</u>	<u>STEL/Ceiling (ACGIH)</u>	<u>PEL (OSHA)</u>	<u>STEL/Ceiling (OSHA)</u>
None				

ENGINEERING CONTROLS:

Use local exhaust ventilation (explosion-proof) to keep airborne concentrations below exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

Eyes And Face:

Chemical splash goggles with a face shield.

Respiratory:

When engineering controls are not adequate, wear a NIOSH/MSHA respirator approved for protection against acid gases, organic vapors and dusts.

Protective Clothing:

Rubber gloves

Work Hygienic Practices:

Quick-drench eyewash and safety shower.

9. PHYSICAL AND CHEMICAL PROPERTIES

<u>ODOR:</u>	faint odor
<u>APPEARANCE:</u>	clear liquid
<u>pH:</u>	Not applicable
<u>PERCENT VOLATILE:</u>	100%
<u>VAPOR PRESSURE:</u>	Not available
<u>VAPOR DENSITY:</u>	Not available
<u>BOILING POINT:</u>	128 °C
<u>MELTING POINT:</u>	-38 °C
<u>SOLUBILITY IN WATER:</u>	Insoluble
<u>EVAPORATION RATE(Butyl Acetate = 1):</u>	Not available
<u>SPECIFIC GRAVITY:</u>	0.738 g/cc
<u>MOLECULAR WEIGHT:</u>	144.0
<u>COEFF. OIL/WATER:</u>	Not available
<u>ODOR THRESHOLD:</u>	Not available
<u>FLAMMABLE LIMITS:</u>	Upper: Not available Lower: Not available.
<u>FLASH POINT:</u>	5 °C
<u>AUTOIGNITION TEMPERATURE:</u>	Not available
<u>EXPLOSIVE PROPERTIES:</u>	Not explosive
<u>OXIDIZING PROPERTIES:</u>	Not an oxidizer

10. STABILITY AND REACTIVITY

<u>CONDITIONS TO AVOID:</u>	Heat, sources of ignition
<u>STABILITY:</u>	Stable
<u>POLYMERIZATION:</u>	Will not occur
<u>HAZARDOUS DECOMPOSITION</u>	None
<u>PRODUCTS:</u>	
<u>INCOMPATIBLE MATERIALS:</u>	Oxidizers.

11. TOXICOLOGICAL INFORMATION

<u>Eye Contact:</u>	Irritating to eyes.
<u>Skin Contact:</u>	May be corrosive to skin. Expected to be irritating to skin.
<u>Skin Absorption:</u>	No data available for the product.
<u>Ingestion:</u>	No data available for the product.
<u>Inhalation:</u>	No data available for the product.

Acute Effects From Overexposure:
Eye irritant. May be corrosive or irritating to eyes and skin, nose and throat.

Chronic Effects From Overexposure:
No data available for the product.

Sensitization: No

Carcinogenicity: EH40: Not listed.
IARC: Not listed.
NTP: Not listed.
OSHA: Not considered a carcinogen under OSHA.
ACGIH: Not listed

Mutagenicity: No

Reproductive Toxicity: No

12. ECOLOGICAL INFORMATION

Ecotoxicological Information:
No data available for the product.

Chemical Fate Information:
No data available for the product.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Dispose of waste according to local and Federal laws and regulations.

14. TRANSPORT INFORMATION

PROPER SHIPPING NAME: Flammable liquid, corrosive, N.O.S. (di-tertiary-butyl silane)
CLASSIFICATION: Flammable liquid, 3 (Corrosive, 8)
LABELS: Flammable liquid, Corrosive
UN NUMBER: UN2924
PACKING GROUP: II
CUSTOM TARIFF NO: 2942.00.0000
MARINE POLLUTANT: No
PIH: Not designated Poison by Inhalation Hazard by US DOT.

15. REGULATORY INFORMATION

UNITED STATES
SECTION 311 HAZARD CATEGORY (40 CFR 370): Fire hazard, immediate (acute) health hazard.
SECTION 313 REPORTABLE INGREDIENTS (40 CFR 372): This product does not contain a toxic chemical subject to the reporting requirements of Section 313 of Emergency Planning and Community Right-To-Know Act of 1986.

SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355): Not listed
CERCLA HAZARDOUS SUBSTANCE (40 CFR 302.4): Not listed
TSCA SEC 12B EXPORT NOTIFICATION: This product is not subject to TSCA 12 (b) Export Notification Requirements.
TSCA INVENTORY STATUS (40 CFR 710): Listed

CANADA
WHMIS:

Product Identification No.: 2924
Hazard Classification: Class E (Corrosive)
Ingredient Disclosure List: Not listed

16. OTHER INFORMATION

REVISION SUMMARY: Revision #0 New MSDS.

NFPA RATING

HEALTH:
FLAMMABILITY:
REACTIVITY:
SPECIAL: None

This MSDS has been prepared to meet U. S. OSHA Hazard Communication Standard, 29 CFR 1910.1200 and Canada's Workplace Hazardous Materials Information System (WHMIS) requirements.
type 2c

Copyright 2006. FMC Corporation, Lithium Division. All Rights Reserved. FMC Lithium and the FMC Lithium logo are trademarks of FMC Corporation.