t-Butyldimethylsilyl chloride (TBDMSCl)

**SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

CATALOG No. 10110
MSDS Name t-Butyldimethylsilyl chloride, 98%
Synonyms t-Butyldimethylchlorosilane; TBDMSCl
Company Identification: Shanghai Medpep Co., Ltd.
For information, Call: +86 21 65566949

**SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS**

MSDS Name: t-Butyldimethylsilyl chloride, 98%
Purity: 98% min.
CAS No 18162-48-6
Molecular Formula: C₆H₁₅ClSi
Molecular Weight: 150.70

**SECTION 3. HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW**
MOISTURE SENSITIVE. FLAMMABLE SOLID. DANGER! CAUSES EYE AND SKIN BURNS. CAUSES DIGESTIVE AND RESPIRATORY TRACT BURNS.
TARGET ORGANS: EYES, SKIN, MUCOUS MEMBRANES.

**POTENTIAL HEALTH EFFECTS**

**EYE:**
CAUSES EYE BURNS.

**SKIN:**
CAUSES SKIN BURNS.

**INGESTION:**
CAUSES DIGESTIVE TRACT IRRITATION WITH POSSIBLE BURNS.

**INHALATION:**
CAUSES RESPIRATORY TRACT IRRITATION WITH POSSIBLE BURNS.

**CHRONIC:** NO INFORMATION FOUND

**SECTION 4. FIRST-AID MEASURES**

**EYES:**
IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES,
OCCASIONALLY LIFTING THE UPPER AND LOWER EYELIDS. GET MEDICAL AID IMMEDIATELY.
DO NOT ALLOW VICTIM TO RUB OR KEEP EYES CLOSED.

**SKIN:**
GET MEDICAL AID IMMEDIATELY. IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. DISCARD CONTAMINATED CLOTHING IN A MANNER WHICH LIMITS FURTHER EXPOSURE.

**INGESTION:**
IF VICTIM IS CONSCIOUS AND ALERT, GIVE 2-4 CUPFULS OF MILK OR WATER. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GET MEDICAL AID IMMEDIATELY.
INHALATION
REMOVE FROM EXPOSURE AND MOVE TO FRESH AIR IMMEDIATELY. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. GET MEDICAL AID.

NOTES FOR PHYSICIAN
TREAT SYMPTOMATICALLY AND SUPPORTIVELY.

SECTION 5. FIRE FIGHTING MEASURES
FIRE: NO DATA.
FLASH POINT: 22 ° C (71.60°F)
AUTOIGNITION TEMPERATURE: NOT AVAILABLE.
EXTINGUISHING MEDIA: IF WATER IS THE ONLY MEDIA AVAILABLE, USE IN FLOODING AMOUNTS. USE DRY CHEMICAL TO FIGHT FIRE.
GENERAL INFORMATION: AS IN ANY FIRE, WEAR A SELF-CONTAINED BREATHING APPARATUS IN PRESSURE-DEMAND, MSHA/NIOSH (APPROVED OR EQUIVALENT), AND FULL PROTECTIVE GEAR. FLAMMABLE SOLID. REACTS WITH WATER TO FORM ACIDIC GASES WHICH WHEN IN CONTACT WITH METAL MAY LIBERATE FLAMMABLE AND/OR HYDROGEN GAS.

SECTION 6. ACCIDENTAL RELEASE MEASURES
USE PROPER PERSONAL PROTECTIVE EQUIPMENT AS INDICATED IN SECTION 8.
SPILLS AND LEAKS: SWEEP UP OR ABSORB MATERIAL, THEN PLACE INTO A SUITABLE CLEAN, DRY, CLOSED CONTAINER FOR DISPOSAL. AVOID GENERATING DUSTY CONDITIONS. REMOVE ALL SOURCES OF IGNITION. PROVIDE VENTILATION.
ENVIRONMENTAL PRECAUTIONS: NO DATA.

SECTION 7. HANDLING AND STORAGE
HANDLING: WASH THOROUGHLY AFTER HANDLING. USE WITH ADEQUATE VENTILATION. MINIMIZE DUST GENERATION AND ACCUMULATION. DO NOT GET IN EYES, ON SKIN, OR ON CLOTHING. KEEP CONTAINER TIGHTLY CLOSED. AVOID CONTACT WITH HEAT, SPARKS AND FLAME. AVOID INGESTION AND INHALATION.
STORAGE: KEEP AWAY FROM HEAT, SPARKS, AND FLAME. KEEP AWAY FROM SOURCES OF IGNITION. STORE IN A TIGHTLY CLOSED CONTAINER. STORE IN A COOL, DRY, WELL-VENTILATED AREA AWAY FROM INCOMPATIBLE SUBSTANCES. FLAMMABLES-AREA.
HYGIENE PRACTICES: NO DATA.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
ENGINEERING CONTROLS: FACILITIES STORING OR UTILIZING THIS MATERIAL SHOULD BE EQUIPPED WITH AN EYEWASH FACILITY AND A SAFETY SHOWER. USE ADEQUATE VENTILATION TO KEEP AIRBORNE CONCENTRATIONS LOW.
EYES: WEAR APPROPRIATE PROTECTIVE EYEGLASSES OR CHEMICAL SAFETY GOGGLES AS DESCRIBED BY OSHA'S EYE AND FACE PROTECTION REGULATIONS IN 29 CFR 1910.133 OR EUROPEAN STANDARD EN166.
SKIN AND CLOTHING: WEAR APPROPRIATE PROTECTIVE GLOVES AND CLOTHING TO PREVENT SKIN EXPOSURE.

RESPIRATORS: FOLLOW THE OSHA RESPIRATOR REGULATIONS FOUND IN 29 CFR 1910.134 OR EUROPEAN STANDARD EN 149. ALWAYS USE A NIOSH OR EUROPEAN STANDARD EN 149 APPROVED RESPIRATOR WHEN NECESSARY.

OTHER PROTECTIVE: 

FACILITIES STORING OR UTILIZING THIS MATERIAL SHOULD BE EQUIPPED WITH AN EYEWASH FACILITY AND A SAFETY SHOWER.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: WHITE SOLID.

ODOR: NOT AVAILABLE.

BOILING POINT: 124-126° C @ 760mm HG.

FREEZING / MELTING POINT: 86-89°C

DYNAMIC VISCOSITY: NOT AVAILABLE.

SOLUBILITY IN WATER: DECOMPOSES.

SPECIFIC GRAVITY / DENSITY: NOT AVAILABLE.

SECTION 10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: STABLE UNDER NORMAL TEMPERATURES AND PRESSURES.

CONDITIONS TO AVOID: IGNITION SOURCES, DUST GENERATION, EXPOSURE TO MOIST AIR OR WATER.

INCOMPATIBILITY WITH OTHER MATERIALS: STRONG OXIDIZING AGENTS, BASES, ALCOHOLS, METALS.

HAZARDOUS DECOMPOSITION PRODUCTS: HYDROGEN CHLORIDE, CARBON MONOXIDE, CARBON DIOXIDE, SILICON OXIDE.

HAZARDOUS POLYMERIZATION: HAS NOT BEEN REPORTED

SECTION 11. TOXICOLOGICAL INFORMATION

RTECS #: EYE EFFECT: .

SKIN EFFECT: INGESTION EFFECT: 

INHALATION EFFECT: 

OTHER TOXICOLOGICAL INFORMATION:

SECTION 12. ECOLOGICAL INFORMATION

ECOTOXICITY: NO INFORMATION PROVIDED.

BIOACCUMULATION: NO INFORMATION PROVIDED.

BIODEGRADATION: NO INFORMATION PROVIDED.

ENVIRONMENTAL STABILITY: NO INFORMATION PROVIDED.

SECTION 13. DISPOSAL CONSIDERATIONS

CONSULT WITH THE LOCAL GOVERNMENT REGULATIONS.
SECTION 14. TRANSPORT INFORMATION
DOT PROPER SHIPPING NAME: FLAMMABLE SOLID, CORROSIVE, ORGANIC, N.O.S.
(t-Butyldimethylsilyl chloride)
DOT HAZARD CLASS: 4.1
DOT IDENTIFICATION NO: UN2925
DOT PACKING GROUP: II
DOT LABEL TYPE: FLAMMABLE SOLID, CORROSIVE

SECTION 15. REGULATORY INFORMATION
Chinese Governmental regulations

SECTION 16. OTHER INFORMATION
LAST UPDATED: 2007, 7, 4
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