

# MATERIAL SAFETY DATA SHEET

For R&D use only. Not for drug, household or other uses.

Click <http://www.lookchem.com/cas-427/4270-70-6.html> for suppliers of this product.

### Composition/Information on Ingredient

4270-70-6

**Code:**  
M

**RTECS:**

**Code:**  
X

**Name:**  
TRIPHENYLSULFONIUM CHLORIDE \*93-4\*

**Other REC Limits:**  
N/K

**OSHA PEL:**  
N/K

**Code:**  
M

**OSHA STEL:**

**Code:**

**ACGIH TLV:**  
N/K

**Code:**  
M

**ACGIHSTEL:**  
N/P

**Code:**

**Respiratory Protection:**  
USE NIOSH/MSHA APPROVED

**Ventilation:**  
LOCAL EXHAUST: ADEQUATE

**Protective Gloves:**  
IMPERVIOUS

**Eye Protection:**  
FACE SHIELD, GOGGLES

**Other Protective Equipment:**  
Equipment ACID RESISTANT PROTECTIVE SUIT W/PANTS, SLEEVES WORN OUTSIDE OF RUBER BOOTS GLOVES.  
SHOWERS EYEWASH FACILITIES.

**Work Hygienic Practices:**  
REMOVE/LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.WASH THOROUGHLY AFTER HANDLING. DISCARD  
UNCONTAMINATED FOOTWEAR.

**Supplemental Safety and Health:**  
MAT TO AVOID CONT'D: ACID: ALKALI/ACTIVE METALS. HAZARDS CONT'D: DEATH, PRIMARY IRRITANT,

## Health Hazard Data

ORAL LD50 (RABBIT): 500 MG/KG

**Route Of Entry Inds - Inhalation:**  
YES

**Skin:**  
NO

**Ingestion:**  
YES

**Carcinogenicity Inds - NTP:**  
YES

**IARC:**  
YES

**OSHA:**  
NO

**Health Hazards Acute And Chronic:**  
INHALATION: SEVERE IRRITATION, ULCERATION OF THE NOSE, THROAT & LARYNX, PULMONARY EDEMA, DEATH. CHRONIC: RESPIRATORY TRACT DAMAGE & EROSION OF THE TEETH. INGESTION: SEVERE BURNS TO THE MUCOUS MEMBRANE S, DEATH. CHRONIC: GI INFLAMMATION, SEVERE BURNS. SKIN: COROSIVE. CHRONIC: BURNS, DESTROY SURROUNDING TISSUE, (SEE SUPP)

**Explanation Of Carcinogenicity:**  
SEE INGREDIENTS

**Signs And Symptoms Of Overexposure:**  
SWELLING, BREATHING DIFFICULTIES, COUGH, CHOKING SENSATION, CHEST TIGHTNESS, BURNING, PHOTSENSITIZATION, ITCHING, DRYING, REDNESS, NAUSEA, DIARRHEA, INTENSE THIRST, VOMITING, COLLAPSE & SEVERE ABDOMINAL PAINS & INFLAMMATION.

**Medical Cond Aggravated By Exposure:**  
SKIN & RESPIRATORY DISEASES.

**First Aid:**  
4 USE ACID RESISTANT CLOTHES/RESPIRATORY PROTECTION. SMALL: MOP/WIPE UP & DISPOSE IN DOT-APPROVED WASTE CONTAINERS. LARGE: DIKE W/SOIL/OTHER ABSORBENT MATERIAL & CAREFULLY NEUTRALIZE. KEEP NON-NEUTRALIZED MATERIAL OUT OF WATERWAYS & SOIL.  
FLUSH W/WATER FOR 15 MINS. OBTAIN MEDICAL ATTENTION IN ALL CASES.

**Spill Release Procedures:**  
4 USE ACID RESISTANT CLOTHES/RESPIRATORY PROTECTION. SMALL: MOP/WIPE UP & DISPOSE IN DOT-APPROVED WASTE CONTAINERS. LARGE: DIKE W/SOIL/OTHER ABSORBENT MATERIAL & CAREFULLY NEUTRALIZE. KEEP NON-NEUTRALIZED MATERIAL OUT OF WATERWAYS & SOIL.

## Fire and Explosion Hazard Information

**Flash Point Method:**  
N/P

**Flash Point:**

**Flash Point Text:**  
NON-COMBUSTIBLE

**Autoignition Temp:**

**Autoignition Temp Text:**  
N/A

**Lower Limits:**  
N/R

**Upper Limits:**  
N/R

**Extinguishing Media:**  
WATER SPRAY, FOAM, CO2, DRY CHEMICAL

**Fire Fighting Procedures:**  
USE NIOSH APPROVED PRESSURE DEMAND, SCBA & PROTECTIVE CLOTHING. EXTINGUISH ALL NEARBY IGNITION SOURCES.

**Unusual Fire/Explosion Hazard:**  
CONTACT OF HYDROGEN CHLORITE GAS/LIQUID W/ANY ALKALI/ACTIVE METAL MAY DEVELOP ENOUGH HEAT TO CAUSE FIRE IN ADJACENT COM BUSTIBLE MATERIALS. 5

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**Physical/Chemical Properties**

**HCC:**

**NRC/State LIC No:**

**Net Prop WT For Ammo:**

**Boiling Point:**

**B.P. Text:**  
108-212F

**Melt /Freeze Pt:**

**M.P/F.P Text:**  
N/R

**Decomp Temp:**

**Decomp Text:**  
N/K 6

**Vapor Pres:**  
212

**Vapor Density:**  
1.3

**Volatile Org Content %:**

**Spec Gravity:**  
N/K

**VOC Pounds/Gallon:**

**PH:** N/K

**VOC Grams/Liter:**

**Viscosity:**  
N/P

**Evaporation Rate & Reference:**  
N/R

**Solubility in Water:**  
COMPLETE

**Appearance and Odor:**  
BROWN LIQUID, PUNGENT ODOR

**Percent Volatiles by Volume:**  
N/K

**Corrosion Rate:**  
N/K

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**Reactivity Data**

YES

ADDING WATER DIRECTLY TO PRODUCT.

**Materials To Avoid:**  
ALKALI/ACTIVE METALS, ALKALIS, OXIDIZERS, REDUCERS, CYANIDES, SULFIDES, COMBUSTIBLES, FORMALDEHYDE, HYDROCHLORIC ACID

**Hazardous Decomposition Products:**  
HYDROGEN CHLORIDE GAS, OXIDES OF NITROGEN CARBON , HYDROGEN GAS BIS-CHLOROMETHYL ETHER.

**Hazardous Polymerization Indicator:**  
NO

**Conditions To Avoid Polymerization:**  
N/K

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## Toxicological Information

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MSDS Tr

Regulato

**Federal Regulatory Information:** N/P

## State Regulatory Information

## Other Information

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**WARRANTY**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Lookchem shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional