

# MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-682/682-01-9.html> for suppliers of this product.

## Composition/Information on Ingredient

**Cas:**

682-01-9

**Code:**

T

**RTECS:****Code:**

X

**Name:**

TETRAPROPYL ORTHOSILICATE Environmental Wt: Oth

**Other REC Limits:**

N/K

**OSHA PEL:**

3.2 MG/M3 (FUME)

**Code:**

M

**OSHA STEL:****Code:****ACGIH TLV:**

2 MG/M3 (FUME)

**Code:**

M

**ACGIH STEL:**

N/P

**Code:**

## Control Measures

**Respiratory Protection:**

SUITABLE RESPIRATOR: ORGANIC VAPOR TYPE

**Ventilation:**

LOCAL EXHAUST RECOMMENDED. MECHANICAL (GENERAL): RECOMMENDED

**Protective Gloves:**

N/P

**Eye Protection:**

USE CHEMICAL WORKER GOGLES.

**Other Protective Equipment:**

Equipment THESE PRECAUTIONS ARE FOR ROOM TEMPERATURE HANDLING. USE AT ELEVATED TEMPERATURES, OR AEROSOL/ SPRAY APPLICATIONS. MAY REQUIRE ADDED PRECAUTIONS.

**Work Hygienic Practices:**

WASHING AT MEALTIME AND END OF SHIFT IS ADEQUATE. REMOVE CONTAMINATE CLOTHING AND SHOES AS SOON ASA PRACTICAL AND CLEAN THOROUGHLY BEFORE REUSE.

**Supplemental Safety and Health:**

USE RESPIRATORY PROTECTION UNLESS LOCAL EXHAUST VENTILATION IS ADEQUATE OR AIR SAMPLING DATA SHOW EXPOSURES ARE WITHIN TLV AND PEL GUIDELINES.

## Health Hazards Data

**LD50/LC50 Mixture:**

N/P

**Route Of Entry Inds - Inhalation:**

N/P

**Skin:**

N/P

**Ingestion:**

N/P

**Carcinogenicity Inds - NTP:**

N/P

**IARC:**

N/P

**OSHA:**

N/P

**Health Hazards Acute And Chronic:**

EYE: DIRECT CONTACT IRRITATES SLIGHTLY WITH REDNESS AND SWELLING. SKIN: A SINGLE RELATIVELY SHORT EXPOSURE (LESS THAN 24 HOURS) IRRITATES. REPEATED PROLONGED CONTACT (24 TO 48 HOURS) IRRITATES SERIOUSLY, MAY BURN MILDLY. INHALATION: SHORT VAPOR EXPOSURE MAY CAUSE DROWSINESS AND IRRITATE NOSE AND THROAT. DEGREE OF EFFECTS DEPENDS ON CONCENTRATION AND LENGTH OF EXPOSURE. ORAL: SMALL AMOUNTS TRANSFERRED TO THE MOUTH BY FINGERS DURING USE ETC. SHOULD NOT INJURE. SWALLOWING LARGE AMOUNTS MAY

**Explanation Of Carcinogenicity:**

N/P

**Signs And Symptoms Of Overexposure:**

PROLONGED OVEREXPOSURES TO 2METHOXYETHANO FORMED ON EXPOSURE TO WATER OR HUMID AIR, MAY CAUSE BIRTH DEFECTS BASED ON ANIMAL DATA.

**Medical Cond Aggravated By Exposure:**

N/P

**First Aid:**

EYES: IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES. GET MEDICAL ATTENTION. SKIN: WIPE OFF AND FLUSH WITH WATER FOR 15 MINUTES. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS. INHALATION: REMOVE TO FRESH AIR. GET MEDICAL ATTENTION IF ILL EFFECTS PERSIST. ORAL: GET MEDICAL ATTENTION. DO NOT INDUCE VOMITING. COMMENT: INHALING LIQUID WHILE VOMITING CAN INJURE LUNGS SERIOUSLY. IF VOMITING OCCURS KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION OF LIQUID INTO LUNGS.

**Spill Release Procedures:**

USE ABSORBENT MATERIAL TO COLLECT AND CONTAIN FOR SALVAGE OR DISPOSAL. REMOVE ALL SOURCES OF IGNITION AND WEAR PROPER PROTECTION EQUIPMENT.

**Neutralizing Agent:**

N/P

**Waste Disposal Methods:**

DOW CORNING SUGGESTS THAT ALL LOCAL STATE AND FEDERAL REGULATIONS CONCERNING HEALTH AND POLLUTION BE REVIEWED TO DETERMINE APPROVED DISPOSAL PROCEDURES. CONTACT DOW CORNING IF THERE ARE ANY DISPOSAL QUESTIONS.

**Handling And Storage Precautions:**

KEEP CONTAINER CLOSED AND AWAY FROM MOISTURE, HEAT, SPARKS AND OPEN FLAME.

**Other Precautions:**

N/P

## Fire and Explosion Hazard Information

**Flash Point Method:**

TCC

**Flash Point:**

=17.2C, 63.F

**Flash Point Text:**

63F 3

**Autoignition Temp:****Autoignition Temp Text:**

N/P

**Lower Limits:****Upper Limits:****Extinguishing Media:**

WATER, WATER FOG X CO2 X DRY CHEMICAL X FOAM X OTHE

**Fire Fighting Procedures:**

SELFCONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING SHOULD E WORN IN FIGHTING FIRES INVOLVING CHEMICALS.

**Unusual Fire/Explosion Hazard:**

VAPORS ARE HEAVIER THAN AIR AND CAN TRAVEL ALONG THE GROUND TO REMOTE IGNITION SOURCES. STATIC ELECTRICITY MAY ACCUMULATE AND IGNITE VAPORS. PREVENT A POSSIBLE FIRE HAZARD BY SUITABLE MEANS SUCH AS , BONDING AND GROUNDING, INERT GAS PURGE, VAPOR DILUTION AND THE LIKE.

## Physical/Chemical Properties

NCC:

**NRC/State Lic No:****Net Wt For Ammo:****Boiling Point:**

=404.4C, 750.F

**760MMHG:**

760MMHG

**Melt/Freeze Pt:****M.P/F.P Text:**

N/P

**Decomp Temp:**

N/P

**Decomp Text:**

N/P

**25MMHG:**

25MMHG

**Vapor Density:**

3.8

**Volatile Org Content %:**

95

**Spec Gravity:**

0.764

**VOC Pounds/Gallon:****PH:**

N/P

**VOC Grams/Liter:****Viscosity:**

N/P

**Evaporation Rate & Reference:**

N/P

**Solubility in Water:**

N/P

**Appearance and Odor:**

RED LIQUID/ SOLVENT ODOR

**Percent Volatiles by Volume:**

N/P

**Corrosion Rate:**

N/P

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