

# MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-425/4259-15-8.html> for suppliers of this product.

## Composition/Information on Ingredient

**Cas:**  
4259-15-8

**Code:**  
M

**RTECS:**  
TD5550000

**Code:**  
M

**Name:**  
PHOSPHORODITHIOIC ACID, DIALKYL ESTER, ZINC SALT

**Other REC Limits:**  
N/K

**OSHA PEL:**  
NOT APPLICABLE

**Code:**  
M

**OSHA STEL:**  
ACGIH TLV: NOT APPLICABLE

**Code:**  
2 OSHA STEL:

**ACGIH TLV:**  
NOT APPLICABLE

**Code:**  
M

**ACGIHSTEL:**  
N/P

**Code:**

## Control Measures

**Respiratory Protection:**  
10 AIRBORNE CONCS SHOULD BE KEPT TO LOWEST LEVELS POSS. IF VAPOR/MIST/DUST GENERATED,USE NIOSH/MSHA APPRVD RESP AS APPROP. SUPPLIED AIR RESP PROT SHOULD BE USED FOR CLEANING LG SPILLS/UPON ENTRY INTO TAN KS, VESSELS OR OTHER CONFINED SPACES.

**Ventilation:**  
ADEQUATE VENTILATION TO MEET COMPONENT OCCUPATIONAL EXPOSURE LIMITS.

**Protective Gloves:**  
IMPERVIOUS GLOVES (FP N).

**Eye Protection:**  
CHEMICAL WORKERS GOGGLES, (SEE ING 17)

**Other Protective Equipment:**  
Equipment NONE SPECIFIED BY MANUFACTURER.

**Work Hygienic Practices:**  
WASH EXPOSED SKIN SEVERAL TIMES DAILY W/SOAP WATER. SOILED WORK CLTHG LAUNDERED/DRY-CLEANED AT LEAST ONCE A WEEK.

**Supplemental Safety and Health:**  
FIRE FIGHT PROC:VAPS & TO PROVIDE PROT FOR PERSONS TRYING TO S LEAK. EFTS OF OVEREXP:OR HIGH PRESS LINE FAILURE CAN PENETRATE SKIN &, IF NOT PROPERLY TREATED, CAN CAUSE SEVERE INJURY, INCLDG DISFIG UREMENT, LOSS OF FUNCTION OR EVEN REQ AMPUTATION OF AFFECTED AREA. TO PVNT SUCH SERIOUS INJURY, IMMED MED (SEE ING 7)

## Health Hazards Data

**LD50LC50Mixture:**  
NONE SPECIFIED BY MANUFACTURER.

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

**Skin:**  
YES

**Ingestion:**  
NO

**Carcinogenicity Inds - NTP:**  
NO

**IARC:**  
NO

**OSHA:**  
NO

**Health Hazards Acute And Chronic:**  
ACUTE:EYE:MAY CAUSE IRRIT, EXPERIENCED AS MILD DISCOMFORT & SEEN AS SLIGHT EXCESS REDNESS. SKIN:NO ADVERSE EFTS EXPECTED FROM ABSORP OF MATL. BRIEF CNTCT MAY CAUSE SLIGHT IRRIT. PRLNGD CNTCT, AS W/CLT HG WETTED W/MATL, MAY CAUSE MORE SEVEREIRRIT & DISCOMFORT, SEEN AS LOCAL REDNESS & SWELLING. (SEE EFTS OF OVEREXP)

**Explanation Of Carcinogenicity:**  
NOT RELEVANT

**Signs And Symptions Of Overexposure:**  
HLTH HAZ:INHAL:PROD NOT VOLAT AT AMBIENT TEMPS. NO ADVERSE EFTS EXPECTED FROM VAP GENERATED AT AMBIENT TEMPS. INGEST:NO ADVERSE EFTS EXPECTED. IF MORE THAN SEVERAL MOUTHFULS SWALLOWED, ABDOM DISCOMFOR T, NAUSEA & DIARR MAY OCCUR. CHRONIC:NOADVERSE EFTS ANTICIPATED. MATL FROM HIGH PRESS EQUIP, PINHOLE LEAKS, (SUPP DATA)

**Medical Cond Aggravated By Exposure:**  
BECAUSE OF ITS IRRITATING PROPERTIES, REPEATED SKIN CONTACT MAY AGGRAVATE AN EXISTING DERMATITIS (SKIN CONDITION).

**First Aid:**  
EYE:IMMED FLUS W/PLENTY OF WATER FOR AT LEAST 15 MIN. HOLD LIDS APART WHILE FLUSHING TO RINSE ENTIRE SURFACE. GET MD. SKIN:WASH W/PLENTY OF SOAP & WATER FOR SEVERAL MIN. GET MD IF IRRIT DEVELOPS/PERSI STS. INGEST:IF MORE THAN SEVERAL MOUTHFULS SWALLOWED, GIVE 2 GLASSES OF WATER (16 OZ). GET MD. INHAL:IF IRRIT OR DROWSINESS OCCURS, REMOVE TO FRESH AIR. NOTE TO MD:HIGH PRESS INJECTION OF (SEE ING 8)

**Spill Release Procedures:**  
VENT AREA. AVOID BRTHG VAPOR. USE NIOSH/MSHA APPRVD SCBA OR SUPPLIED-AIR FOR LG SPILLS OR CONFINED AREAS. CONTAIN SPILL IF POSS. WIPE UP OR ABSORB ON SUITABLE MATL & SHOVEL UP. PVNT ENTRY INTO SEWERS & WATERWAYS. AVOID CNTCT W/SKIN, EYES OR CLTHG. 9

**Neutralizing Agent:**  
NONE SPECIFIED BY MANUFACTURER.

**Waste Disposal Methods:**  
DOES NOT MEET RCRA CRITERIA OF HAZARDOUS WASTE IF DISCARDED IN PURCHASED FORM. UNDER RCRA, IS RESPONSIBILITY OF USER TO DETERMINE AT TIME OF DISPOSAL, WHETHER PRODUCT MEETS RCRA CRITERIA FOR HAZ WASTE . THIS IS BECAUSE PROD USES, (SEE ING 14)

**Handling And Storage Precautions:**  
MINIMUM FEASIBLE HNDLG TEMPS SHOULD BE MAINTAINED. PERIODS OF EXPOS TO HIGH TEMPS SHOULD BE MINIMIZED. WATER CONTAMINATION SHOULD BE AVOIDED.

**Other Precautions:**  
MISUSE OF EMPTY CNTNRS CAN BE HAZ. EMPTY CNTNRS CAN BE HAZ IF USED TO STORE TOX, FLAMM, OR REACTIVE MATLS. CUTTING/WELDING OF EMPTY CNTNRS MIGHT CAUSE FIRE, EXPLD/TOX FUMES FROM RESIDUES. DO NOT PRESS URIZE/EXPOSE TO OPEN FLAME (SEE ING 15)

## Fire and Explosion Hazard Information

**Flash Point Method:**  
N/P

**Flash Point:**

**Flash Point Text:**  
N/K (GREASE)

**Autoignition Temp:**

**Autoignition Temp Text:**  
N/A

**Lower Limits:**  
N/K

**Upper Limits:**  
N/K

**Extinguishing Media:**  
WATER SPRAY, DRY CHEMICAL, FOAM OR CARBON DIOXIDE. WATER OR FOAM MAY CAUSE FROTHING.

**Fire Fighting Procedures:**  
WEAR NIOSH/MSHA APPRVD SCBA & FULL PROT EQUIP (FP N). USE WATER TO COOL FIRE-EXPOSED CNTNRS. IF LEAK/SPILL NOT IGNITED, USE WATER SPRAY TO DISPERSE (SUPP DATA)

**Unusual Fire/Explosion Hazard:**  
NONE.

## Physical/Chemical Properties

**HCC:**

**NRC/State LIC No:**

**Net Prop WT For Ammo:**

**Boiling Point:**

**B.P. Text:**  
N/K

**Melt/Freeze Pt:**

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

**Decomp Temp:**

**Decomp Text:**  
N/K

**Vapor Pres:**  
NEGLECTIBLE

**Vapor Density:**  
N/A 11

**Volatile Org Content %:**

**Spec Gravity:**  
N/K

**VOC Pounds/Gallon:**

**PH:** N/A

**VOC Grams/Liter:**

**Viscosity:**  
N/P

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

**Solubility in Water:**  
NEGLECTIBLE.

**Appearance and Odor:**  
DARK GRAY LIQUID.

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

**Corrosion Rate:**  
N/K

## Reactivity Data

**Stability Indicator:**  
YES

**Stability Condition To Avoid:**  
NONE SPECIFIED BY MANUFACTURER.

**Materials To Avoid:**  
REACTS VIOLENTLY W/STRONG OXIDIZERS.

**Hazardous Decomposition Products:**  
TOX LEVELS OF CO, CO\*2, IRRIT ALDEHYDES KETONES COMBUST PRODS/CMPDS OF MOLYBDENUM, ZINC, LITHIUM,SULFUR, PHOSPHORUS.

**Hazardous Polymerization Indicator:**  
NO

**Conditions To Avoid Polymerization:**  
NOT RELEVANT

## Toxicological Information

**Information:**N/P

## MSDS Transport Information

**Information:**N/P

## Regulatory Information

**Sara Title III Information:** N/P

**Federal Regulatory Information:** N/P

**State Regulatory Information:** N/P

## Other Information

**Other Information:**N/P



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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 terms and conditions of sale.