

# MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-769/7699-43-6.html> for suppliers of this product.

## Composition/Information on Ingredient

**Cas:**  
7699-43-6

**Code:**  
M

**RTECS:**  
ZH7700000

**Code:**  
M

**Name:**  
ZIRCONIUM DICHLORIDE OXIDE 1

**Other REC Limits:**  
N/K

**OSHA PEL:**  
5 MG/CUM

**Code:**  
M

**OSHA STEL:**

**Code:**

**ACGIH TLV:**  
5 MG/CUM

**Code:**  
M

**ACGIHSTEL:**  
N/P

**Code:**

## Control Measures

**Respiratory Protection:**  
NIOSH/MSHA APPROVED RESPIRATOR FOR ACID VAPORS. FOR EMERGENCY A SELF-CONTAINED BREATHING APPARATUS.

**Ventilation:**  
LOCAL EXHAUST: ACCEPTABLE

**Protective Gloves:**  
RUBBER

**Eye Protection:**  
SAFETY GOGGLES

**Other Protective Equipment:**  
Equipment LAB COAT, APRON, FLAME &CHEMICAL RESISTANT COVERALLS, EYEWASH, &SAFETY SHOWER.

**Work Hygienic Practices:**  
HYGIENIC FACILITIES FOR WASHING. 3

**Supplemental Safety and Health:**  
N/K

## Health Hazards Data

**LD50LC50Mixture:**  
INH-HMN LCLO 1300 PPM/30M (HCL)

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

**Skin:**  
NO

**Ingestion:**  
NO

**Carcinogenicity Inds - NTP:**  
NO

**IARC:**  
NO

**OSHA:**  
NO

**Health Hazards Acute And Chronic:**  
INHALATION: CORROSIVE TO TISSUES, SEVERELY IRRITATES EYES, SKIN, MUCOUS MEMBRANES, & RESPIRATORY TRACT.

**Explanation Of Carcinogenicity:**  
NONE

**Signs And Symptions Of Overexposure:**  
INHALATION: CORROSIVE TO TISSUES, SEVERELY IRRITATES EYES, SKIN, MUCOUS MEMBRANES, & RESPIRATORY TRACT.

**Medical Cond Aggravated By Exposure:**  
N/K

**First Aid:**  
INHALATION: REMOVE FROM EXPOSURE. EYES/SKIN: FLUSH W/COPIOUS AMOUNTS OF WATER AT LEAST 15 MINS. REMOVE ANY CONTAMINATED CLOTHING. INGESTION/INHALATION: SEEK MED ATTN.

**Spill Release Procedures:**  
WEAR FULL PROTECTIVE CLOTHING & RESPIRATORY PROTECTION. ELIMINATE ALL SOURCES OF IGNITION. COVER W/DRY SAND/VERMICULITE, MIX WELL & CAREFULLY TRANSFER TO WELL-MARKED CONTAINER. CLOSE CONTAINER TIGHTLY . SUBMIT OR RETAIN FOR DISPOSAL.

**Neutralizing Agent:**  
N/K 2

**Waste Disposal Methods:**  
CONSULT STATE, LOCAL, & FEDERAL REGULATIONS FOR PROPER DISPOSAL ACID SOLUTIONS.

**Handling And Storage Precautions:**  
KEEP CONTAINER TIGHTLY CLOSED. STORE IN A COOL, DRY, WELL-VENTILATED AREA. WASH THOROUGHLY AFTER USE. CORROSIVE.

**Other Precautions:**  
N/K

## Fire and Explosion Hazard Information

**Flash Point Method:**  
N/P

**Flash Point:**

**Flash Point Text:**  
N/R

**Autoignition Temp:**

**Autoignition Temp Text:**  
N/A

**Lower Limits:**  
N/R

**Upper Limits:**  
N/R

**Extinguishing Media:**  
NONCOMBUSTIBLE

**Fire Fighting Procedures:**  
WEAR NIOSH/MSHA APPROVED SCBA, FLAME & CHEMICAL RESISTANT CLOTHING. IF W/O RISK, REMOVE MATERIAL FROM FIRE AREA. COOL CONTAINERS W/WATER FROM MAXIMUM DISTANCE.

**Unusual Fire/Explosion Hazard:**  
TOXIC FUMES MAY BE EMITTED IF THERMALLY DECOMPOSED.

## Physical/Chemical Properties

**HCC:**

**NRC/State LIC No:**

**Net Prop WT For Ammo:**

**Boiling Point:**

**B.P. Text:**  
> 00C

**Melt /Freeze Pt:**

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

**Decomp Temp:**

**Decomp Text:**  
N/K

**Vapor Pres:**  
>1

**Vapor Density:**  
>1

**Volatile Org Content %:**

**Spec Gravity:**  
1

**VOC Pounds/Gallon:**

**PH:** N/K

**VOC Grams/Liter:**

**Viscosity:**  
N/P

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

**Solubility in Water:**  
COMPLETE

**Appearance and Odor:**  
COLORLESS LIQUID

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

**Corrosion Rate:**  
N/K

## Reactivity Data

**Stability Indicator:**  
YES

**Stability Condition To Avoid:**  
HEATING

**Materials To Avoid:**  
N/K

**Hazardous Decomposition Products:**  
CHLORIDE FUMES

**Hazardous Polymerization Indicator:**  
NO

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

## 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