

# MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-100/10049-04-4.html> for suppliers of this product.

## Composition/Information on Ingredient

**Cas:**  
10049-04-4  
**Code:**  
M

**RTECS:**  
FO3000000  
**Code:**  
M

**Name:**  
CHLORINE DIOXIDE (SARA III) 1

**Other REC Limits:**  
0.1 PPM

**OSHA PEL:**  
0.1 PPM/0.3 STEL  
**Code:**  
M

**OSHA STEL:**

**Code:**

**ACGIH TLV:**  
0.1 PPM/0.3 STEL; 93  
**Code:**  
M

**ACGIHSTEL:**  
N/P  
**Code:**

## Control Measures

**Respiratory Protection:**  
LARGE SURFACE IN CONFINED AREAS REQUIRES THE USE OF FEDERALLY APPROVED CHLORINE DIOXIDE GAS MASK PURSUANT TO OSHA, IF CLO2 LEVELS AVERAGE >0.1 PPM (8-HOUR TIME WEIGHTED AVERAGE).

**Ventilation:**  
LOCAL EXHAUST: ESSENTIAL FOR PROLONGED EXPOSURE. MECHANICAL: ACCEPTABLE.

**Protective Gloves:**  
NONE REQUIRED

**Eye Protection:**  
NONE

**Other Protective Equipment:**  
Equipment NONE

**Work Hygienic Practices:**  
N/K

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

## Health Hazards Data

**LD50LC50Mixture:**  
N/K

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

**Skin:**  
NO

**Ingestion:**  
NO

**Carcinogenicity Inds - NTP:**  
NO

**IARC:**  
NO

**OSHA:**  
NO

**Health Hazards Acute And Chronic:**  
INHALATION: TEMPORARY THROAT IRRITATION, COUGHING, WHEEZING, BRONCHIAL IRRITATION, DIFFICULT BREATHING. EYES: TEMPORARY IRRITATION.

**Explanation Of Carcinogenicity:**  
NO

**Signs And Symptions Of Overexposure:**  
INHALATION: PERSISTENT THROAT IRRITATION, COUGHING, WHEEZING, BRONCHIAL IRRITATION, DIFFICULT BREATHING. EYES: PERSISTANT IRRITATION.

**Medical Cond Aggravated By Exposure:**  
RESPIRATORY CONDITIONS SUCH AS ASTHMA, BRONCHITIS.

**First Aid:**  
EYES: FLUSH WITH WATER. GET MEDICAL ATTENTION IF IRRITATION PERSISTS. INHALATION: MOVE TO FRESH AIR AT ONCE. GET MEDICAL ATTENTION.

**Spill Release Procedures:**  
FLUSH SPILLS WITH WATER.

**Neutralizing Agent:**  
N/K

**Waste Disposal Methods:**  
DILUTE WITH WATER AND FLUSH DOWN DRAIN.

**Handling And Storage Precautions:**  
AVOID EYE CONTACT.

**Other Precautions:**  
NONE REQUIRED.

## 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:**  
NONE

**Upper Limits:**  
NONE

**Extinguishing Media:**  
THE SOLUTION WILL NOT BURN.

**Fire Fighting Procedures:**  
USE WATER TO COOL FIRE-EXPOSED CONTAINERS.

**Unusual Fire/Explosion Hazard:**  
NONE

## Physical/Chemical Properties

**HCC:**

**NRC/State LIC No:**

**Net Prop WT For Ammo:**

**Boiling Point:**

**B.P. Text:**  
100C

**Melt/Freeze Pt:**

**M.P/F.P Text:**  
-0.4C

**Decomp Temp:**

**Decomp Text:**  
N/K 3

**Vapor Pres:**  
17

**Vapor Density:**  
N/R

**Volatile Org Content %:**

**Spec Gravity:**  
1.006

**VOC Pounds/Gallon:**

**PH:** N/K

**VOC Grams/Liter:**

**Viscosity:**  
N/P

**Evaporation Rate & Reference:**  
(BU AC = 1): AS WATER

**Solubility in Water:**  
COMPLETE

**Appearance and Odor:**  
COLORLESS TO YELLOW LIQUID; SLIGHT CHLORINE ODOR.

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

**Corrosion Rate:**  
N/K

## Reactivity Data

**Stability Indicator:**  
YES

**Stability Condition To Avoid:**  
TEMPERATURES EXCEEDING 100F.

**Materials To Avoid:**  
STRONG ACIDS/BLEACH/PEROXIDES. MAY CORRODE/DISSOLVE EASILY OXIDIZABLE/ACID-SOLUBLE METALS, COPPER, ALUMINUM.

**Hazardous Decomposition Products:**  
CLO2 GAS MAY BE GENERATED IF HEATED OR ON CONTACT W/STRONG ACIDS.

**Hazardous Polymerization Indicator:**  
NO

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

## Toxicological Information

**Information:**N/P

## MSDS Transport Information

**Information:**N/P

## Regulatory Information

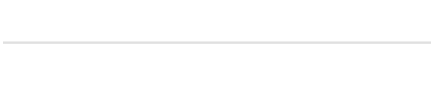
**Sara Title III Information:** N/P

**Federal Regulatory Information:** N/P

**State Regulatory Information:** N/P

## Other Information

**Other Information:**N/P



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