

# MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-118/1189-85-1.html> for suppliers of this product.

## Composition/Information on Ingredient

**Cas:**  
1189-85-1  
**Code:**  
M

**RTECS:**  
GB2900000  
**Code:**  
M

**Name:**  
TERT-BUTYL CHROMATE

**Other REC Limits:**  
N/K

**OSHA PEL:**  
S, C 0.1MG/M3  
**Code:**  
M

**OSHA STEL:**

**Code:**

**ACGIH TLV:**  
S, C 0.1MG/M3; 9192  
**Code:**  
M

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

## Control Measures

**Respiratory Protection:**  
ORGANIC VAPOR RESPIRATOR W/PARTICULATE FILTER APPROVED BY NIOSH.

**Ventilation:**  
LOCAL EXHAUST: PREFERRED-PAINT SPRAY BOOTH, 150 FPM FACE VELOCITY. MECHANICAL ACCEPTABLE FOR SMALL VOLUME APPLICATIONS.

**Protective Gloves:**  
BUTYL RUBBER OR EQUIVALENT

**Eye Protection:**  
SPECTACLES W/SIDE SHIELDS

**Other Protective Equipment:**  
Equipment N/K

**Work Hygienic Practices:**  
N/K

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

## Health Hazards Data

**LD50LC50Mixture:**  
N/K

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

**Skin:**  
YES

**Ingestion:**  
NO

**Carcinogenicity Inds - NTP:**  
NO

**IARC:**  
NO

**OSHA:**  
NO

**Health Hazards Acute And Chronic:**  
INHALATION: DIZZINESS, GIDDINESS, NARCOSIS, CENTRAL NERVOUS SYSTEM DEPRESSION, KIDNEY, LIVER, & OTHER SYSTEMIC DAMAGE, AFFECT HIGHER BRAIN FUNCTIONS, MENTAL CAPACITY, LUNG CANCER, PERFORATION OF THE N ASAL SEPTA. SKIN: REDNESS OR SWELLING.

**Explanation Of Carcinogenicity:**  
NONE

**Signs And Symptions Of Overexposure:**  
INHALATION: DIZZINESS, GIDDINESS, NARCOSIS, CENTRAL NERVOUS SYSTEM DEPRESSION, KIDNEY, LIVER, & OTHER SYSTEMIC DAMAGE, AFFECT HIGH BRAIN FUNCTIONS, MENTAL CAPACITY, LUNG CANCER, PERFORATION OF THE NAS AL SEPTA. SKIN: REDNESS OR SWELLING.

**Medical Cond Aggravated By Exposure:**  
SKIN, LUNG, KIDNEY & LIVER CONDITIONS

**First Aid:**  
INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING, RESTORE BREATHING. INGESTION: DON'T INDUCE VOMITING. EYE: FLUSH W/LARGE QUANTITIES OF WATER FOR 15 MINS. SKIN: REMOVE EXCESS MATERIAL W/PAPER TOWELS OR RAGS. WASH W/MILD SOAP & WARM WATER.OBTAIN MEDICAL ATTENTION IN ALL CASES.

**Spill Release Procedures:**  
ELIMINATE ALL HEAT SOURCES, OPEN FLAMES & OTHER SOURCES OF IGNITION. ABSORB W/SOLID ABSORBENT. SHOVEL INTO CONTAINERS. IF LARGE QUANTITIES ARE SPILLED, PERSONAL PROTECTIVE EQUIPMENT MAY BE REQUIRED.

**Neutralizing Agent:**  
N/K

**Waste Disposal Methods:**  
DISPOSE OF IN ACCORDANCE W/LOCAL, STATE, & FEDERAL REGULATIONS.

**Handling And Storage Precautions:**  
KEEP CONTAINER CLOSED WHEN NOT IN USE.

**Other Precautions:**  
HANDLE CAREFULLY IN ACCORDANCE W/HAZARDOUS PROPERTIES OF FLAMMABLE LIQUIDS AS SUGGESTED BY THE NATIONAL FIRE PROTECTION ASSOCIATION.

## Fire and Explosion Hazard Information

**Flash Point Method:**  
TCC

**Flash Point:**

**Flash Point Text:**  
108F

**Autoignition Temp:**

**Autoignition Temp Text:**  
N/A 4

**Lower Limits:**  
1%

**Upper Limits:**  
7%

**Extinguishing Media:**  
CO2 OR DRY CHEMICAL

**Fire Fighting Procedures:**  
WATER SPRAY MAY BE INEFFECTIVE. WATER SPRAY SHOULD BE USED TO COOL CONTAINERS EXPOSED TO FIRE. DON'T ENTER THE FIRE AREA W/O PROPER PROTECTIVE EQUIPMENT/SCBA.

**Unusual Fire/Explosion Hazard:**  
AVOID SOURCE OF IGNITION, FLAME, STATIC ELECTRICITY, HEAT, ELECTRICAL SPARK.

## Physical/Chemical Properties

**HCC:**

**NRC/State LIC No:**

**Net Prop WT For Ammo:**

**Boiling Point:**

**B.P. Text:**  
313-388F

**Melt/Freeze Pt:**

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

**Decomp Temp:**

**Decomp Text:**  
N/K

**Vapor Pres:**  
2-15

**Vapor Density:**  
3.8-4.9

**Volatile Org Content %:**

**Spec Gravity:**  
0.74-0.89

**VOC Pounds/Gallon:**

**PH:** N/K

**VOC Grams/Liter:**

**Viscosity:**  
N/P 5

**Evaporation Rate & Reference:**  
(ETHER = 1): 9-70

**Solubility in Water:**  
INSOLUBLE

**Appearance and Odor:**  
WATER WHITE &CHARACTERISTIC PETROLEUM ODOR.

**Percent Volatiles by Volume:**  
25-35%

**Corrosion Rate:**  
N/K

## Reactivity Data

**Stability Indicator:**  
YES

**Stability Condition To Avoid:**  
SOURCE OF IGNITION, FLAME, STATIC ELECTRICITY, EXCESSIVE HEAT, ELECTRICAL SPARK.

**Materials To Avoid:**  
N/K

**Hazardous Decomposition Products:**  
CO, NITRIC OXIDE, LEAD, CHROMIUM FUME.

**Hazardous Polymerization Indicator:**  
NO

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

## 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