

# MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-87/87-84-3.html> for suppliers of this product.

## Composition/Information on Ingredient

**Cas:**

87-84-3

**Code:**

M

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

X

**Name:**

1,2,3,4,5-PENTABROMO-6-CHLOROCYCLOHEXANE

**Other REC Limits:**

N/K

**OSHA PEL:**

N/K

**Code:**

M

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

N/K

**Code:**

M

**ACGIH STEL:**

N/P

**Code:**

## Control Measures

**Respiratory Protection:**

IF >TLV, USE NIOSH/MSHA APPROVED AIR-PURIFYING OR SUPPLIED AIR RESPIRATOR.

**Ventilation:**

LOCAL EXHAUST/GOOD GENERAL ROOM VENTILATION: TO KEEP

**Protective Gloves:**

RECOMMENDED

**Eye Protection:**

SAFETY GLASSES W/SIDE GUARDS

**Other Protective Equipment:**

Equipment ABRON, BOOTS, HEAD &FACE PROTECTION, NON-STATIC CREATING CLOTHING &CONDUCTIVE SHOES, SLEEVES

**Work Hygienic Practices:**

REMOVE/LAUNDER CONTAMINATED CLOTHING BEFORE REUSE. THOROUGHLY CLEAN EQUIPMENT AFTER EACH USE. WASH AFTER HANDLING.

**Supplemental Safety and Health:**

VAPORS GENERATED FROM SOLIDS CAN LOWER FLASH POINT OF SOLID-FUEL MIXTURE.

## Health Hazards Data

**LD50/LC50 Mixture:**

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:**

2 INHALATION: COUGHING, SHORTNESS OF BREATH, DIZZINESS, & INTOXICATION. EYES: IRRITATION, PAIN, BLINKING, TEARS, OR REDNESS. SKIN: IRRITATION, ABSORPTION, & ALLERGIC SENSITIZATION.

**Explanation Of Carcinogenicity:**

NONE

**Signs And Symptoms Of Overexposure:**

INHALATION: COUGHING, SHORTNESS OF BREATH, DIZZINESS, & INTOXICATION. EYES: IRRITATION, PAIN, BLINKING, TEARS, OR REDNESS. SKIN: IRRITATION, ABSORPTION, & ALLERGIC SENSITIZATION.

**Medical Cond Aggravated By Exposure:**

N/K

**First Aid:**

INHALATION: REMOVE TO FRESH AIR. GIVE OXYGEN OR ARTIFICIAL RESPIRATION AS NEEDED. EYES: IMMEDIATELY RINSE W/CLEAN WATER FOR 20-30 MINS. RETRACT EYELIDS OFTEN. SKIN: WASH THOROUGHLY W/MILD SOAP & WATER. FLUSH W/LUKEWARM WATER FOR 15 MINS. IF STICKY, USE WATERLESS CLEANER FIRST. INGESTION: OBTAIN MEDICAL ATTENTION IN ALL CASES. TREAT SYMPTOMATICALLY. NO FURTHER TREATMENT IS REQUIRED.

**Spill Release Procedures:**

KILL IGNITION SOURCE. VENTILATE AREA. SPREAD GRANULAR COVER/OPEN GRATING ON WALKWAYS TO PREVENT SLIPPING. WEAR PROTECTION. PREVENT FLOW TO LOW AREAS. VACUUM/SHOVEL INTO SUITABLE DISPOSAL CONTAINERS. CONTAIN/COLLECT/TRANSFER. CLEAN UP SPILLS PROMPTLY.

**Neutralizing Agent:**

N/K

**Waste Disposal Methods:**

BURN/LANDFILL SOLIDS ACCORDING TO LOCAL/STATE/FEDERAL REGS. USE REGISTERED TRANSPORTERS. CONTAMINATED PRODUCT/SOIL/WATER SHOULD BE CONSIDERED DANGEROUS DUE TO POTENTIAL EVOLUTION OF FLAMMABLE VAPORS. EXTREMELY FLAMMABLE. UN 2211.

**Handling And Storage Precautions:**

KEEP CONTAINERS TIGHTLY CLOSED. TRANSPORT/STORE IN SEALED FULL CONTAINERS <80F IN WELL-VENTILATED AREAS. FOR INDUSTRIAL USE ONLY. DON'T INGEST.

**Other Precautions:**

BLOW AIR ACROSS OPEN FOR 5 MINS AFTER OPENING. USE PROPER GROUNDING. AVOID CONTACT W/EYES & SKIN. AVOID INHALATION OF VAPOR. MINIMIZE STATIC SPARKS. AVOID FLASH AIR. KEEP FROM CHILDREN. PREVENT CONTACT W/FOOD/CHEWING/SMOKING MATERIALS.

## Fire and Explosion Hazard Information

**Flash Point Method:**

CC

**Flash Point:****Flash Point Text:**

-74.2F

**Autoignition Temp:**

N/A

**Autoignition Temp Text:**

N/A

**Lower Limits:**

1.4%

**Upper Limits:**

8.3%

**Extinguishing Media:**

DRY CHEMICAL/CO<sub>2</sub>/WATER SPRAY/WATER FOG/FOAM/WATER. INTERMITTENT FOG APPLICATION PROVIDES SURFACE COOLING/PROTECTION.

**Fire Fighting Procedures:**

3 WEAR PROPER PROTECTION/SAFELY FIGHT FIRE. USE STRAIGHT STREAM OF WATER TO DIG INTO HOT MOLTEN MASS FROM OUTSIDE TO OPEN/COOL INTERIOR/PREVENT REIGNITION.

**Unusual Fire/Explosion Hazard:**

VAPOR ARE >AIR/TRAVEL LONG DISTANCE/IGNITE/FLASH BACK. GENERATION OF STATIC CHARGE CAUSES SPARK/IGNITION/EXPLOSION. EXTREMELY FLAMMABLE. AUTOIGNITION TEMP: 500F

## Physical/Chemical Properties

CC

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

N/P

**Melt/Freeze Pt:**

N/R

**Decomp Temp:**

N/R

**Decomp Text:**

N/R

**Vapor Pres:**

500 PSIA

**Vapor Density:**

N/K

**Volatile Org Content %:**

N/K

**Spec Gravity:**

0.94

**VOC Pounds/Gallon:**

N/P

**PH:**

N/R

**VOC Grams/Liter:**

N/P

**Viscosity:**

N/P

**Evaporation Rate & Reference:**

N/K

**Solubility in Water:**

NEGLIGIBLE

**Appearance and Odor:**

WHITE SPHERICAL BEADS W/SOLVENT ODOR.

**Percent Volatiles by Volume:**

SLIGHT

**Corrosion Rate:**

N/K

**Other Information:**

N/P

**Other Information:**

N/P