

# MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-364/3648-20-2.html> for suppliers of this product.

## Composition/Information on Ingredient

**Cas:**  
3648-20-2  
**Code:**  
M

**RTECS:**

**Code:**  
X

**Name:**  
PHTHALATE ESTERS OF LONG CHAIN ALCOHOLS

**Other REC Limits:**  
NONE RECOMMENDED

**OSHA PEL:**  
NOT ESTABLISHED  
**Code:**  
M

**OSHA STEL:**

**Code:**

**ACGIH TLV:**  
NOT ESTABLISHED  
**Code:**  
M

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

## Control Measures

**Respiratory Protection:**  
USE AIR SUPPLIED RESPIRATOR WHERE AIR-BORNE CONCENTRATIONS ARE WELL ABOVE TLV.

**Ventilation:**  
USE LOCA EXHAUST TO KEEP BELOW TLV.

**Protective Gloves:**  
RUBBER OR PLASTIC.

**Eye Protection:**  
SPLASH GOGGLES.

**Other Protective Equipment:**  
Equipment NONE.

**Work Hygienic Practices:**  
WASH AFTER HANDLING AND BEFORE EATING, DRINKING, OR SMOKING. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE. 5

**Supplemental Safety and Health:**  
KEY1:N1. PART B OF A TWO PART KIT.

## Health Hazards Data

**LD50LC50Mixture:**  
UNKNOWN

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

**Skin:**  
YES

**Ingestion:**  
NO

**Carcinogenicity Inds - NTP:**  
NO

**IARC:**  
NO

**OSHA:**  
NO

**Health Hazards Acute And Chronic:**  
CHRONIC: COULD LEAD TO BRONCHITIS, BRONCHIAL SPASM, PULMONARY EDEMA. ACUTE: IRRITATION OF RESPIRATORY MEMBRANES, RUNNY NOSE, SORE THROAT, PRODUCTIVE COUGH, AND REDUCED LUNG 3 FUNCTION. EFFECTS ARE REVER SIBLE. SOME SENSITIVE INDIVIDUALS MAY EXPERIENCE ASTHMA-LIKE SYMPTOMS AT CONCENTRATIONS BELOW RECOMMENDED TLV.

**Explanation Of Carcinogenicity:**  
N/R

**Signs And Symptions Of Overexposure:**  
SEE "HEALTH HAZARDS".

**Medical Cond Aggravated By Exposure:**  
PRE-EXISTING UNSPECIFIC BRONCHIAL HYPERREACTIVELY SPECIFIC ISOCYANATE HYPERSENSITIVITY.

**First Aid:**  
WASH SKIN WITH SOAP AND WATER. FLUSH EYES THOROUGHLY WITH WATER. FOR INHALATION, REMOVE TO AREA FREE OF FURTHER EXPOSURE. ASTHERRATIC TYPE SYMPTOMS MAY BE TREATED SYSTEMATICALLY. IF INGESTED, GIVE WATE R OR MILK AND CONSULT PHYSICIAN.

**Spill Release Procedures:**  
ABSORB SPILL WITH ABSORBENT COMPOUND. REMOVE TO OPEN CONTAINERS. TREAT ABSORBED MATERIAL WITH MILD AMMONIA SOLUTION AND FLUSH SPILL AREA WITH SAME SOLUTION. LEAVE TREATED MATERIAL OPEN FOR 24-28 HOURS .

**Neutralizing Agent:**  
AMMONIA SOLUTION.

**Waste Disposal Methods:**  
INCINERATION IS PREFERRED OR LANDFILL IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL ENVIRONMENTAL PROTECTION LEGISLATION.

**Handling And Storage Precautions:**  
PROTECT FROM CONTAMINATION WITH MOISTURE OR OTHER ISOCYANATE REACTIVE MATERIALS. HANDLE UNDER ADEQUATE VENTILATION AND PROTECT FROM CONTACT W/PRODUCT.

**Other Precautions:**  
NONE STATED.

## Fire and Explosion Hazard Information

**Flash Point Method:**  
4 COC

**Flash Point:**

**Flash Point Text:**  
NONE

**Autoignition Temp:**

**Autoignition Temp Text:**  
NONE

**Lower Limits:**  
N/R

**Upper Limits:**  
N/R

**Extinguishing Media:**  
CARBON DIOXIDE, DRY CHEMICAL, FOAM.

**Fire Fighting Procedures:**  
WEAR SELF-CONTAINED BREATHING APPARATUS.

**Unusual Fire/Explosion Hazard:**  
AVOID WATER CONTINATION IN CLOSED CONTAINERS. MATERIAL REACTS WITH WATER WITH THE EVOLUTION OF CARBON DIOXIDE. CLOSED CONTAINERS MAY RUPTURE.

## Physical/Chemical Properties

**HCC:**  
N1

**NRC/State LIC No:**  
N/R

**Net Prop WT For Ammo:**

**Boiling Point:**

**B.P. Text:**  
460F T0490F

**Melt/Freeze Pt:**

**M.P/F.P Text:**  
<-35F,<-37C

**Decomp Temp:**

**Decomp Text:**  
UNKNOWN

**Vapor Pres:**  
0.02

**Vapor Density:**  
<1

**Volatile Org Content %:**

**Spec Gravity:**  
1.01

**VOC Pounds/Gallon:**

**PH:** N/K

**VOC Grams/Liter:**

**Viscosity:**  
N/P

**Evaporation Rate & Reference:**  
UNKNOWN

**Solubility in Water:**  
INSOLUBLE

**Appearance and Odor:**  
CLEAR BROWN FLUID WITH NEGLIGIBLE ODOR.

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

**Corrosion Rate:**  
UNKNOWN

## Reactivity Data

**Stability Indicator:**  
YES

**Stability Condition To Avoid:**  
HIGH TEMPERATURES.

**Materials To Avoid:**  
WATER, ALCOHOLS, STRONG BASES, METAL COMPOUNDS.

**Hazardous Decomposition Products:**  
CARBON DIOXIDE, CARBON MONOXIDE, OXIDES OF NITROGEN, TRACES OF HYDROGEN CYANIDE. 6

**Hazardous Polymerization Indicator:**  
YES

**Conditions To Avoid Polymerization:**  
CONTACT WITH MOISTURE OF ISOCYANATE-REACTIVE MATERIALS.

## 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