

# MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-305/305-03-3.html> for suppliers of this product.

## Composition/Information on Ingredient

**Cas:**  
305-03-3  
**Code:**  
M

**RTECS:**  
ES7525000  
**Code:**  
M

**Name:**  
CHLORAMBUCIL (SARA III)

**Other REC Limits:**  
NOT ESTABLISHED

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

**OSHA STEL:**

**Code:**

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

## Control Measures

**Respiratory Protection:**  
AIR-SUPPLIED SUIT IS RECOMMENDED OR AIR-SUPPLIED HOOD WITH FULL BODY COVERING.

**Ventilation:**  
LOCAL EXHAUST VENTILATION.

**Protective Gloves:**  
DOUBLE LATEX

**Eye Protection:**  
GOGGLES.

**Other Protective Equipment:**  
Equipment TYVEK JUMPSUIT OR OTHER FULL BODY COVERING.

**Work Hygienic Practices:**  
WASH THROUGHLY AFTER HANDLING AND BEFORE EATING. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

**Supplemental Safety and Health:**  
4 THIS IS AN ANTINEOPLASTIC DRUG. \*EMERGENCY AND FIRST AID,CONTINUED:CONTROL OF HYPERACTIVITY OR CONVULSIONS WILL REQUIRE SEDATION;THE ROUTE BEING DICTATED BY THE CONDITION.DAILY BLOOD COUNTS ARE NECES SARY FOR 2 WEEKS.TRANSFUSION OF FRESH BLOOD AND BARRIER NURSING WOULD BE REQUIRED IF BONE MARROW SUPPRESSION OCCURS.

## Health Hazards Data

**LD50LC50Mixture:**  
LD50 (ORAL MOUSE) IS 123 MG/KG

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

**Skin:**  
YES

**Ingestion:**  
YES

**Carcinogenicity Inds - NTP:**  
YES

**IARC:**  
YES

**OSHA:**  
NO

**Health Hazards Acute And Chronic:**  
ACUTE:CENTRAL NERVOUS SYSTEM TOXICITY. CHRONIC:CAN SEVERELY SUPPRESS BONE MARROW FUNCTION. CHLORAMBUCIL IS PROBABLY MUTAGENIC AND TERATOGENIC IN HUMANS. MAY CAUSE FETAL HARM WHEN ADMINISTERED TO A PR EGNANT WOMAN. THIS PRODUCT PRODUCES HUMAN INFERTILITY.

**Explanation Of Carcinogenicity:**  
2 NONE OF THE CHEMICALS IN THIS PRODUCT IS LISTED BY IARC, NTP OR OSHA AS A CARCINOGEN.

**Signs And Symptions Of Overexposure:**  
CHLORAMBUCIL IS A CONFIRMED HUMAN CARCINOGEN BY IARC, NTP.

**Medical Cond Aggravated By Exposure:**  
PERSONS WITH A HISTORY OF NERVOUS DISORDERS MAY BE AT INCREASED RISK FROM EXPOSURE.

**First Aid:**  
INHALATION: REMOVE SUBJECT TO FRESH AIR. EYE: FLUSH WITH PLENTY OF WATER FOR 15 MINUTES. GET IMMEDIATE MEDICAL ATTENTION. SKIN: WASH WITH SOAP AND WATER. INGESTION: WASH OUT MOUTH. GIVE PLENTY OF FLUI DS. INDUCE VOMITING,GASTRIC LAVAGE AND ADMINISTER CHARCOAL IF INGESTION WAS RECENT.GET IMMEDIATE MEDICAL ATTENTION.  
\*CONTINUES IN SUPPLEMENTAL DATA\*

**Spill Release Procedures:**  
WEAR SUITABLE PROTECTIVE CLOTHING.SWEEP UP,MINIMIZING DUST EVOLUTION.TRANSFER TO CLOSED DISPOSAL CONTAINER.DECONTAMINATE AREA WITH 5% CAUSTIC SODA SOLUTION.THEN WASH DOWN WITH WATER.COLLECT AND TREAT CAUSTIC WATER WASHES BEFORE DISCHARGE.

**Neutralizing Agent:**  
5% CAUSTIC SODA SOLUTION.

**Waste Disposal Methods:**  
CONTACT YOUR LOCAL ENVIRONMENTAL OFFICER. ARRANGE FOR INCINERATION. DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.

**Handling And Storage Precautions:**  
STORE IN COOL, DRY, WELL VENTILATED AREA. PROTECT FROM PHYSICAL DAMAGE, HEAT AND IGNITION SOURCES. KEEP CONTAINERS CLOSED.

**Other Precautions:**  
NONE.

## Fire and Explosion Hazard Information

**Flash Point Method:**  
N/P

**Flash Point:**

**Flash Point Text:**  
N/R 3

**Autoignition Temp:**

**Autoignition Temp Text:**  
N/A

**Lower Limits:**  
N/R

**Upper Limits:**  
N/R

**Extinguishing Media:**  
USE CARBON DIOXIDE, FOAM, DRY CHEMICAL, OR WATER FOG.

**Fire Fighting Procedures:**  
FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE.

**Unusual Fire/Explosion Hazard:**  
FIRE OR EXCESSIVE HEAT MAY CAUSE PRODUCTION OF HAZARDOUS DECOMPOSITION PRODUCTS.

## Physical/Chemical Properties

**HCC:**  
T6

**NRC/State LIC No:**

**Net Prop WT For Ammo:**

**Boiling Point:**

**B.P. Text:**  
N/R

**Melt/Freeze Pt:**

**M.P/F.P Text:**  
150F,65.5C

**Decomp Temp:**

**Decomp Text:**  
N/A

**Vapor Pres:**  
N/R

**Vapor Density:**  
N/R

**Volatile Org Content %:**

**Spec Gravity:**  
UNKNOWN

**VOC Pounds/Gallon:**

**PH:** N/P

**VOC Grams/Liter:**

**Viscosity:**  
N/P

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

**Solubility in Water:**  
SLIGHT.

**Appearance and Odor:**  
WHITE CRYSTALLINE POWDER WITH A SLIGHT ODOR.

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

**Corrosion Rate:**  
N/P

## Reactivity Data

**Stability Indicator:**  
YES

**Stability Condition To Avoid:**  
N/R

**Materials To Avoid:**  
N/R

**Hazardous Decomposition Products:**  
CARBON DIOXIDE, CARBON MONOXIDE, INCOMPLETELY BURNED CARBON PRODUCTS.

**Hazardous Polymerization Indicator:**  
NO 5

**Conditions To Avoid Polymerization:**  
NOT APPLICABLE

## 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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WARRANTY

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Lookchem shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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