

Safety Data Sheet

Section 1. Product and Company Identification

Product Name Chlorambucil Product ID C2946

Chemical Name

Amboclorin; Leukeran

(Synonyms)

LKT Laboratories, Inc.

545 Phalen Blvd. **Supplier**

St. Paul, MN 55130 USA

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Emergency Phone #

1-800-424-9300

Section 2. Hazards Identification

GHS Classification

Acute toxicity, Oral (Category 3), H301 Skin irritation (Category 2), H315 Eye irritation (Category 2A), H319

Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

Carcinogenicity (Category 1B), H350

GHS Label elements including precautionary statements

Pictogram





Signal word

Danger

Hazard and precautionary statements

Hazard statements

H301 - Toxic if swallowed.

H315 - Causes skin irritation. H319 - Causes serious eye irritation.

H335 - May cause respiratory irritation. H350 - May cause cancer.

Precautionary statements

P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P261 - Avoid breathing dust, fumes, gas, mist, vapors, and spray.

P264 - Wash skin thoroughly after handling.
P270 - Do not eat, drink, or smoke when using this product.
P271 - Use only outdoors or in a well-ventilated area.

P280 - Wear protective gloves, eye protection, and face protection.
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

P308 + P313 - IF exposed or concerned: Get medical advice/ attention. P321 - Specific treatment (see supplemental first aid instructions on this label).

P330 - Rinse mouth.

P330 - Hinse mourn.
P332 + P313 - If skin irritation occurs: Get medical advice/ attention.
P337 + P313 - If skin irritation persists: Get medical advice/ attention.
P362 - Take off contaminated clothing and wash before reuse.
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.

P405 - Store locked up.

P501 - Dispose of contents/ container to an approved waste disposal plant.

HMIS Classification Health hazard: 2

Chronic health hazard: 0 Flammability: 0 Physical hazard: 0

NFPA Rating

Health hazard: 2 Fire hazard: 0 Reactivity hazard: 0

Potential Health Effects

Inhalation - May be harmful if inhaled. May cause respiratory tract irritation. Skin - May be harmful if absorbed through skin. Causes skin irritation.

Eyes - Causes serious eye irritation.

Section 3. C	Composition/Information	on Ingredients
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Substances Ingredient: Title Compound Percent: 100

Formula $C_{14}H_{19}Cl_2NO_2$ Formula Wt. 304.21 CAS No. 305-03-3 EC No. 206-162-0

Section 4. First Aid Measues

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Eye Contact

Flush eyes with plenty of water for at least 15 minutes and consult a physician.

Skin Contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

Inhalation

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Ingestion

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Section 5 . Firefighting Measures

Flash Point

Not available.

Extingushing Media

Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

Firefighting Procedures

Wear self-contained breathing apparatus for firefighting if necessary.

Carbon oxides, nitrogen oxides (NOx), hydrogen chloride gas.

Unusual Fire Hazards

Section 6. Accidental Release Measures

Personal Precautions

Wear respiratory protection. Avoid dust formation. Avoid breathing dust, vapors, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental Precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleanup

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Section 7. Handling and Storage

Handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

Storage Conditions

Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature: $+4^{\circ}\text{C}$

Hazardous Decomposition Products Not available.

Other Remarks

Section 8. Exposure Controls/Personal Protection

Personal protective EXPOSURE CONTROLS

equipment Contains no substances with occupational exposure limit values.

Avoid contact with skin, eyes, and clothing. Wash hands before breaks and immediately after handling the product.

PERSONAL PROTECTION

PERSONAL PROTECTION
Eye/face protection: Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).
Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Full and splash contact - Material: Nitrile rubber, Minimum layer thickness: 0.11 mm, Break through time: 480 min., Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M).
Body protection: Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate, use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Section 9. Physical and Chemical Properties

Solid. White to off-white powder. **Physical State** Color Not available. Not available **Boiling Point** Volatility 64-66°C Not available. **Melting Point Density** Soluble in alcohol, chloroform or acetone (500 Not available. Solubility mg/mL). Insoluble in water. pН Not available. Not available. Ignition Flash Point temperature Not available Not available. **Autoignition** Lower explosion limit temperature Not available. Not available. Vapor Upper explosion limit pressure Insoluble in water. Not available. Water solubility Odor Partition coefficient: log Pow: 1.47 Not available. Odor n-octanol/water Threshold Relative vapor density Not available. Not available. **Evaporation** rate

Section 10. Stability and Reactivity

Stable under recommended storage conditions. Stability

Strong oxidizing agents.

Materials To Avoid

Hazardous Not available. **Decomposition** Products

Possibility of Not available. hazardous reactions

Not available.

Conditions to avoid

Section 11. Toxicological Information

Oral LD50 Rat - 76 mg/kg Skin Not available.

corrosion/irritation

Inhalation LC50 Not available. Serious eye Not available.

damage/irritation

Dermal LD50 Not available. Respiratory or Not available.

skin sensitization

Germ cell mutagenicity Not available. Other information on Not available.

acute toxicity

Reproductive Toxicity Not available. Aspiration Hazard Not available.

Specific organ toxicity Inhalation - May cause respiratory irritation. Synergistic effects Not available.

single exposure (GHS)

repeated exposure (GHS)

Specific organ toxicity Not available. Additional Information RTECS: ES7525000

Signs and symptoms Stomach - irregularities - based on human Teratogenicity Not available.

of exposure evidence.

Potential Inhalation - May be harmful if inhaled. May cause respiratory tract irritation.

Health Effects Skin - May be harmful if absorbed through skin. Causes skin irritation.

Eyes - Causes serious eye irritation.
Ingestion - Acute toxicity. Toxic if swallowed.
Carcinogenicity: This product is a carcinogen. It may cause cancer.

Carcinogenicity This is or contains a component that has been reported to be carcinogenic based on its IARC, OSHA, ACGIH, NTP, OR

EPA classification. Possible human carcinogen.

IARC: 1 - Group 1: Carcinogenic to humans (Chlorambucil).

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or

potential carcinogen by ACGIH NTP: Known to be human carcinogen (Chlorambucil).

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or

potential carcinogen by OSHA.

Section 12. Ecological Information

Toxicity Not available. Mobility in soil Not available. Bioaccumulative potential Not available.

Section 13. Disposal Considerations

Waste Disposal

Dispose of material according to all federal, state, and local regulations.

Offer material to a licensed, professional waste disposal company to dispose of as unused product. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and

scrubber.

Section 14. Transport Information

DOT (US) UN number: 2811 Class: 6.1 Packing Group: III

Proper shipping name: Toxic solids, organic, n.o.s. (Chlorambucil) Reportable Quantity (RQ): 10 lbs. Poison inhalation hazard: No

UN number: 2811 Class: 6.1 Packing Group: III

Proper shipping name: Toxic solids, organic, n.o.s. (Chlorambucil)

IMDG UN number: 2811 Class: 6.1 Packing Group: III EMS #: F-A, S-A Proper shipping name: TOXIC SOLIDS, ORGANIC, N.O.S. (Chlorambucil)

Further Information

Section 15. Regulatory Information

Reach No.

SARA 302 Components SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the

threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Components Acute health hazard, chronic health hazard.

Massachusetts Right No components are subject to the Massachusetts Right to Know Act. **To Know Components**

Pennsylvania Right Chlorambucil CAS #: 305-03-3 Revision Date: 1993-04-24 **To Know Components**

New Jersey Right Chlorambucil CAS #: 305-03-3 Revision Date: 1993-04-24 **To Know Components**

California Prop 65 Components

WARNING: This product contains a chemical known to the State of California to cause cancer.

Chlorambucil CAS #: 305-03-3 Revision Date: 1992-11-09

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. Chlorambucil CAS #: 305-03-3 Revision Date: 1992-11-09

Section 16. Other Information

Other information

The information in this document is believed to be correct but is not necessarily complete. LKT does not guarantee the accuracy of the information. The burden of verifying the information in this document rests solely upon the user.

Updated 7/2/2019

For emergencies in the USA, call CHEMTREC 800-424-9300