

# SAFETY DATA SHEET

SHELF LIFE 2 EC

FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CALL CHEMTREC - DAY OR NIGHT 1-800-424-9300

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### FORMULATED FOR:

LOVELAND PRODUCTS, INC.  
P.O. Box 1286 • Greeley, CO 80632-1286

24-Hour Emergency Phone: 1-800-424-9300

Medical Emergencies: 1-866-944-8565

U.S. Coast Guard National Response Center: 1-800-424-8802

PRODUCT NAME: SHELF LIFE 2 EC

CHEMICAL NAME: Isopropyl N- (3-chlorophenyl) carbamate; Isopropyl 3-chlorobanilate; Chlorpropham

CHEMICAL FAMILY: Carbamate

EPA REG. NO.: 2749-519-34704

MSDS Number: 2749519-12-LPI

MSDS Revisions: Sections 1, 2, 4, 7, 13, 15

Date of Issue: 07/03/12

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## 2. HAZARDS IDENTIFICATION SUMMARY

**KEEP OUT OF REACH OF CHILDREN – CAUTION** - Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals. Remove contaminated clothing and wash clothing before reuse.

This product is a pale yellow liquid with alcohol odor. Primary routes of entry are Inhalation, eye contact and skin contact.

## 3. COMPOSITION, INFORMATION ON INGREDIENTS

<u>Chemical Ingredients:</u>	<u>Percentage by Weight:</u>	<u>CAS No.</u>	<u>TLV (Units)</u>
Chlorpropham	25.00	101-21-3	none established
Isopropyl Alcohol	15.00	67-63-0	492 mg/m <sup>3</sup>
Inert Ingredients	60.00		

This product is hazardous according to the OSHA Hazard Communication Standard (29 CFR 1910.1200)

## 4. FIRST AID MEASURES

**If swallowed:** Call a poison control center or doctor immediately for treatment advice. Have a person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor.

**If in eyes:** Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**If on skin or clothing:** Take off contaminated clothing. Rinse skin with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: **1-866-944-8565**. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

## 5. FIRE FIGHTING MEASURES

**FLASH POINT (°F/Test Method):** 86°F (30°C) / TCC

**FLAMMABLE LIMITS (LFL & UFL):** Not established

**EXTINGUISHING MEDIA:** Flammable; use dry chemical, carbon dioxide, alcohol foam, foam, water spray or fog.

**HAZARDOUS COMBUSTION PRODUCTS:** Chloroaniline, isocyanates, oxides of nitrogen, chlorine-containing compounds and other unknown hazardous material may be formed. Incomplete combustion may lead to formation of carbon monoxide and/or other asphyxiants.

**SPECIAL FIRE FIGHTING PROCEDURES:** Use water spray to cool containers exposed to fire. Remain upwind. Avoid breathing smoke. Wear self-contained breathing apparatus and full protective gear. Avoid using heavy streams of water.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Containers in fire may burst from excessive heat. Vapors may travel along floor and flash back.

## 6. ACCIDENTAL RELEASE MEASURES

### STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Release or Spill: Wear chemical safety glasses with side shields or chemical goggles, rubber gloves, rubber boots, long-sleeved shirt, long pants, head covering, and a NIOSH-approved pesticide respirator or air-supplied respirator.

For spills: Spills may be collected with absorbent material and placed in a container for proper disposal in accordance with Federal, State and Local Regulations. Prevent runoff from entering sewer drains and waterways.

## 7. HANDLING AND STORAGE

**HANDLING:** Avoid eye and skin contact. Use with ventilation and avoid breathing vapors. Wash hands before eating, drinking, chewing gum, using tobacco products or using the toilet.

**STORAGE:** Avoid storage below freezing temperature. Prolonged storage may result in gel formation. Warming contents and agitation will restore material to useable condition, but do not heat above 250°F/121.1°C. Keep container closed. Do not use direct heat or flame. Do not contaminate water, food or feed by storage or disposal. This product inhibits germination of seed potatoes.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**ENGINEERING CONTROLS:** Local ventilation recommended. Work in well-ventilated areas. Follow label directions.  
**RESPIRATORY PROTECTION:** Wear a NIOSH approved pesticide respirator with organic vapor cartridge and pesticide prefilter if necessary.  
**EYE PROTECTION:** Chemical goggles or shielded safety glasses.  
**SKIN PROTECTION:** Wear protective clothing: long-sleeved shirts and pants, hat, rubber boots with socks. Wear rubber or chemical-resistant gloves.

Isopropyl Alcohol

**OSHA PEL 8 hr TWA**  
980 mg/m<sup>3</sup>

**ACGIH TLV-TWA**  
492 mg/m<sup>3</sup>

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**APPEARANCE AND ODOR:** Pale yellow liquid with alcohol odor.

**SPECIFIC GRAVITY (Water = 1):** 1.0 g/ml

**VAPOR PRESSURE:** 32.4 mm/Hg @ 20°C

**PERCENT VOLATILE (by volume):** 25%

**Note:** These physical data are typical values based on material tested but may vary from sample to sample.

Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

**BULK DENSITY:** 8.35 lbs/gallon

**BOILING POINT:** not available

**EVAPORATION RATE:** not established

**SOLUBILITY:** Slight  
**pH:** not available

**10. STABILITY AND REACTIVITY**

**STABILITY:** Stable

**CONDITIONS TO AVOID:** Excessive heat; ignition sources.

**INCOMPATIBILITY:** Strong oxidizers, acids, alkalis (bases).

**HAZARDOUS DECOMPOSITION PRODUCTS:** Chloroaniline, isocyanates, oxides of nitrogen, and chlorine-containing compounds may form in a fire situation.

**HAZARDOUS POLYMERIZATION:** Will not occur.

**11. TOXICOLOGICAL INFORMATION**

**Acute Oral LD<sub>50</sub> (rat):** Chlorpropham: 4200 mg/kg

**Eye Irritation (rabbit):** Slight to moderate irritant with possible corneal damage

**Inhalation LC<sub>50</sub> (rat):** Chlorpropham: > 0.5 mg/L (4 hr, nose only)

**Carcinogenic Potential:** Nothing listed in NTP or OSHA. IARC lists Isopropanol as 3 (Unclassifiable as to Human Carcinogenicity); ACGIH lists Isopropanol as TLV-A4 (Not Classifiable as a Human Carcinogen).

**Acute Dermal LD<sub>50</sub> (rabbit):** Chlorpropham: >2000 mg/kg

**Skin Irritation (rabbit):** Slight irritant

**Skin Sensitization (guinea pig):** Non-sensitizing.

**12. ECOLOGICAL INFORMATION**

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by disposal of equipment wash waters.

**13. DISPOSAL CONSIDERATIONS**

**PESTICIDE DISPOSAL:** Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL: Nonrefillable Containers 5 gallons or less:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available. Triple rinse container (or equivalent) promptly after emptying. **Triple rinse as follows:** Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Plastic containers are also disposable by incineration, or, if allowed by State and local authorities, by burning. If burned stay out of smoke. **Nonrefillable containers larger than 5 gallons:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse as follows:** Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. **Pressure rinse as follows:** Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Do not contaminate water, food or feed by storage or disposal.

**14. TRANSPORT INFORMATION**

**DOT Shipping Description:** FLAMMABLE LIQUID, N.O.S., 3, UN1993, II (ISOPROPANOL, CHLORPROPHAM) ERG GUIDE 128

**U.S. Surface Freight Classification:** INHIBITORS, NOI, POTATO SPROUTING (NMFC 101690; CLASS: 60)

Consult appropriate ICAO/IATA and IMDG regulations for shipment requirements in the Air and Maritime shipping modes.

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**15. REGULATORY INFORMATION**

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**NFPA & HMIS Hazard Ratings:****NFPA**

2	Health	0	Least
3	Flammability	1	Slight
1	Instability	2	Moderate
		3	High
		4	Severe

**HMIS**

2	Health
3	Flammability
1	Reactivity
G	PPE

**SARA Hazard Notification/Reporting****SARA Title III Hazard Category:**

Immediate	<u>Y</u>
Delayed	<u>N</u>

Fire	<u>Y</u>
Reactive	<u>Y</u>

Sudden Release of Pressure	<u>N</u>
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**Reportable Quantity (RQ) under U.S. CERCLA:** Not listed.**SARA, Title III, Section 313:** Not listed**RCRA Waste Code:** Not listed**CA Proposition 65:** Not listed

**CAUTION** – This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals.

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**16. OTHER INFORMATION**

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**MSDS STATUS:** Sections 1, 2, 4, 7, 13, and 15 revised.**PREPARED BY:** Registrations and Regulatory Affairs**REVIEWED BY:** Environmental/ Regulatory Services

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