

MATERIAL SAFETY DATA SHEET**I. IDENTIFICATION OF PRODUCT**
LOVELAND INDUSTRIES, INC.

GREELEY, COLORADO 80632-1289

EMERGENCY PHONE NUMBERS 1-800-424-9300 CHEMTREC
1-970-356-8920 LOVELAND IND.
CALL CHEMTREC 24 HOURS A DAY @ 1-800-424-9300TRADE NAME: **INCITE**
CHEMICAL NAME: Piperonyl Butoxide
CHEMICAL FAMILY: Insecticide synergist**II. HAZARDOUS COMPONENTS OF MIXTURES**

COMPONENT	CAS #	TLV(UNITS)
Piperonyl Butoxide Technical	51-03-6	None Est.

III. PHYSICAL DATA

BOILING POINT:	356°F	VAPOR DENSITY(AIR=1):	Not Avail.
BULK DENSITY:	8.79#/Gallon	% VOLATILE BY VOL:	Not Avail.
SPECIFIC GRAVITY:	1.055g/ml	APPEARANCE:	Yellowish to Amber Liquid
SOLUBLE IN WATER:	PBO: Soluble in organic solvents. Emulsifies in water.	ODOR:	Mild, Characteristic
VAPOR PRESSURE (mm OF Hg) @ 20 D C:	Not Est.		

IV. FIRE & EXPLOSION HAZARD DATA

FLASH POINT (TEST METHOD):	340°F T.O.C.
FLAMMABLE LIMITS (UEL AND LEL):	Not Avail.
EXTINGUISHING MEDIA:	Dry Chemical, CO ₂ , Foam, Water spray/fog.
SPECIAL FIRE FIGHTING PROCEDURES:	Smoke and fumes from fire may contain hazardous components. Use self-contained breathing apparatus and full protective clothing.
UNUSUAL FIRE AND EXPLOSION HAZARD:	If water is used to fight fire or cool containers, contain run-off by diking to prevent contamination of water supplies. Containers in fire may burst or explode from excessive heat. Stay well back from fire area.

V. REACTIVITY DATA

STABILITY:	Stable
CONDITIONS TO AVOID:	Excessive heat.
INCOMPATIBILITY (MATERIALS TO AVOID):	Strong oxidizers.
HAZARDOUS DECOMPOSITION PRODUCTS:	None Known. Unknown hazardous materials may be formed in a fire situation. Incomplete combustion may lead to formation of carbon monoxide and/or other asphyxiants.
HAZARDOUS POLYMERIZATION:	Will not occur

VI. HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE:	Product is considered to have a low toxicity. May be harmful if swallowed or inhaled. May cause irritation of eyes, nasal passages, throat and skin. Piperonyl Butoxide: Acute Oral Id50 (rat):6150 mg/kg; Acute Dermal Id50 (rabbit):200mg/kg
OTHER HEALTH EFFECTS:	None known.

VI. HEALTH HAZARD DATA (Cont.)

EMERGENCY AND FIRST AID PROCEDURES:

EYES: Flush with plenty of water. Get medical attention.
SKIN: Remove contaminated clothing. Wash with soap and water. Get medical attention if irritation persists.
INGESTION: Harmful if swallowed. Call a physician immediately.
INHALATION: Remove victim to fresh air. Apply artificial respiration if necessary.
CARCINOGEN STATUS: Not listed by NTP, IARC or ACGIH
NOTE TO PHYSICIAN: No antidote known. Treat symptomatically.

VII. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Contain spill. Absorb liquids by covering with clay or absorbent material, then vacuum or scoop and sweep up wastes and place in container for disposal.

WASTE DISPOSAL METHOD: Material which cannot be used at the site should be disposed of. Do not contaminate water, food or feed by storage or disposal. Dispose of in an approved waste disposal facility in accordance with all Federal, State and Local Regulations.

CONTAINER DISPOSAL: Triple rinse (or equivalent) adding rinse water to spray tank. Offer container for recycling or dispose of in a sanitary landfill or by other procedures approved by the appropriate authorities.

VIII. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Not normally required. If vapors exceed acceptable levels wear MSHA/NIOSH approved respirator or mask to protect against pesticide dusts, mists and vapors.

VENTILATION:
LOCAL: Not Normally Required. **SPECIAL:** Not Normally Required.
MECHANICAL: Use if ventilation is not adequate **OTHER:** Work in well ventilated area

PROTECTIVE GLOVES: Wear rubber or impervious gloves.

EYE PROTECTION: Wear goggles or a face shield.

PERSONAL PROTECTIVE EQUIPMENT: Applicators and other handlers must wear: Long-sleeved shirt and long pants, waterproof gloves and shoes plus socks.

USER SAFETY RECOMMENDATIONS: Users should: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

IX. SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN STORAGE AND HANDLING: Store in a cool, dry place away from children, domestic animals, food and feed products. Do not contaminate other stored products or the storage area by handling or storage of this product. Immediately clean up any spills which occur during handling and storage.

OTHER PRECAUTIONS: Do not contaminate water supplies by handling or storage of product, cleaning of equipment or disposal of wastes. Keep work and storage areas clean. Toxic to fish and other aquatic organisms. Read and follow precautionary measures on product label.

X. REGULATORY INFORMATION

Components which could require reporting under SARA TITLE III are: None

CHEMICAL	%	CAS NUMBER	
SARA TITLE III HAZARD CATEGORY			
IMMEDIATE:	Yes	FIRE: No	REACTIVITY: No
DELAYED:	No	SUDDEN RELEASE OF PRESSURE:	No
FREIGHT CLASS:	ITEM 4610	CLASS	60
DOT REGULATION:	Not Regulated		

Legal responsibility is assumed only for the fact that all studies reported here and all opinions are those of qualified experts. Buyer assumes all risks & liability. He accepts & uses this material on these conditions. He must have a copy of this MSDS where this material is handled.

Date of Issue: 03-03-94

Supersedes: 8-29-91