

MATERIAL SAFETY DATA SHEET

Invader Insecticide



MSDS Ref. No.: 100000016068

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Revision No.: 2

This document has been prepared to meet the requirements of the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200 and other regulatory requirements.

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Invader Insecticide
PRODUCT CODE: 6581
ACTIVE INGREDIENT(S): Propoxur
CHEMICAL FAMILY: Carbamate
SYNONYMS: 2-Isopropoxyphenyl N-methylcarbamate
GENERAL USE: Insecticide

EPA Registration No. 279-3395

MANUFACTURER

FMC CORPORATION
Agricultural Products Group
1735 Market Street
Philadelphia, PA 19103
(215) 299-6000 (General Information)
msdsinfo@fmc.com (Email - General Information)

EMERGENCY TELEPHONE NUMBERS

(800) 331-3148 (Medical - U.S.A. & Canada)
(651) 632-6793 (Medical - Collect - All Other Countries)

For leak, fire, spill, or accident emergencies, call:
(800) 424-9300 (CHEMTREC - U.S.A. & Canada)
(703) 527-3887 (CHEMTREC - Collect - All Other Countries)

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

- Flammable liquid and vapor.
- Contents under pressure, do not expose to fire or extreme heat.
- Harmful if inhaled, absorbed through skin or swallowed.
- May be irritating to the skin and eyes.
- Irritating to the upper respiratory tract at high airborne concentrations.

POTENTIAL HEALTH EFFECTS: Effects from overexposure may occur from inhaling, or coming into contact with skin or eyes. The components in this product may be irritating to the eyes, skin and respiratory tract.

MEDICAL CONDITIONS AGGRAVATED: None presently known.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Wt.%	EC No.	EC Class
Propoxur	114-26-1	1	204-043-8	T-N; R25, 50/53
Aliphatic Hydrocarbons	64742-47-8	>=75 - <=85	265-149-8	Xn; R65
n-Propyl alcohol	71-23-8	>=10 - <=20	200-746-9	Xi-F; R11, 41, 67
Carbon dioxide	124-38-9	>=1 - <=5	204-696-9	Not classified

4. FIRST AID MEASURES

EYES: Flush with large quantities of water for at least 15 minutes, lifting the upper and lower eyelids intermittently. If wearing contact lenses, remove after the first five minutes and continue flushing with water. If irritation occurs and persists, get medical attention.

SKIN: Remove contaminated clothing and thoroughly wash with soap and water. If irritation occurs and persists, contact a medical doctor.

INGESTION: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything to an unconscious person.

INHALATION: Remove to fresh air. If breathing difficulty or discomfort occurs and persists, see a medical doctor. If breathing has stopped, give artificial respiration and see a medical doctor immediately.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Use water fog, carbon dioxide, dry chemical, foam

FIRE / EXPLOSION HAZARDS: Exposure to temperatures above 130°F may cause container to rupture.

FIRE FIGHTING PROCEDURES: Isolate area. Evacuate downwind. Fight fire from protected location or safe distance. Keep containers cool to avoid bursting. Wear full protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

RELEASE NOTES: Isolate and post spill area. Wear protective clothing and personal protective equipment as prescribed in Section 8, "Exposure Controls/Personal Protection". Keep unprotected persons and animals out of the area.

7. HANDLING AND STORAGE

HANDLING AND STORAGE: Store in a cool, dry, well-ventilated place. Do not use or store near heat, open flame or hot surfaces. Do not contaminate other products, water or food by storage or disposal.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS

Chemical Name	ACGIH	OSHA	Supplier
Propoxur	0.5 mg/m ³ (TWA)		
Aliphatic Hydrocarbons	10 mg/m ³ (STEL)	5 mg/m ³ (PEL)	
n-Propyl alcohol	100 ppm (TWA)	200 ppm (PEL) 500 mg/m ³ (PEL)	
Carbon dioxide	5,000 ppm (TWA) 30,000 ppm (STEL)	5,000 ppm (PEL) 9,000 mg/m ³ (PEL)	

ENGINEERING CONTROLS: Use in well ventilated area. Avoid contact.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: For splash, mist or spray exposure, wear chemical protective goggles or a face shield.

RESPIRATORY: When used as directed, respiratory protection is not required. High concentrations may require air supplied systems.

PROTECTIVE CLOTHING: No special clothing is required; however, all work clothing should be laundered before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

ODOR:	Propanol
APPEARANCE:	Clear liquid (Aerosol)
DENSITY / WEIGHT PER VOLUME:	6.58 lbs/gal.
FLASH POINT:	26.66 °C (80 °F) Flame extension >34" - no flashback

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID:	Excessive heat, sparks, open flames and other sources of ignition.
STABILITY:	Stable
POLYMERIZATION:	Will not occur
INCOMPATIBLE MATERIALS:	Avoid contact with strong oxidizers, alkaline materials and powdered earth metals.
HAZARDOUS DECOMPOSITION PRODUCTS:	Carbon monoxide, carbon dioxide, hydrogen fluoride and carbonyl fluoride.

11. TOXICOLOGICAL INFORMATION

EYE EFFECTS: May be irritating to the eyes.

SKIN EFFECTS: May be irritating to the skin.

DERMAL LD₅₀: Propoxur: > 2,000 mg/kg (rabbit)
Propoxur: > 5,000 mg/kg (rat)

ORAL LD₅₀: Propoxur: 47 mg/kg (female rat)
Propoxur: 69 mg/kg (male rat)

INHALATION LC₅₀: Propoxur: > 2.616 mg/l (1 h) (rat) Dust
Propoxur: > 1.992 mg/l (1 h) (rat) Liquid aerosol

ACUTE EFFECTS FROM OVEREXPOSURE: Harmful if inhaled, absorbed through skin or swallowed. This product may be irritating to the eyes and skin. Inhalation of aliphatic hydrocarbon vapors may cause dizziness, disturbances in vision, drowsiness, respiratory irritation, and eye, skin and mucous membrane irritation. Vomiting after ingestion of this product may cause aspiration of aliphatic hydrocarbons into the lungs, which may result in fatal pulmonary edema.

CHRONIC EFFECTS FROM OVEREXPOSURE: No data available for the product. Propoxur has caused neurobehavioral effects ascribed to cholinergic toxicity in acute and subchronic neurotoxicity screening studies in rats. There were no neuropathological changes observed in either study. Chronic exposure to aliphatic hydrocarbons may cause headaches, dizziness, loss of sensations or feelings (such as numbness), and liver and kidney damage. Inhaling large concentrations of carbon dioxide causes rapid circulatory insufficiency leading to coma and death. Asphyxiation is likely to occur before the effects of carbon dioxide overexposure. Chronic harmful effects are not known from repeated inhalation of low concentrations.

CARCINOGENICITY:

Chemical Name	IARC	NTP	OSHA	Other
Propoxur	Not listed	Not listed	Not listed	(ACGIH_TWA) A3

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: No data available for the product.

ECOTOXICOLOGICAL INFORMATION: No data available for the product.
Propoxur is toxic to fish and wildlife. Care should be taken to avoid environmental contamination.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Do not puncture or incinerate container. Open dumping or burning of this material or its packaging is prohibited. Empty containers can be disposed of with ordinary household trash, as per label recommendations.

EMPTY CONTAINER: Do not puncture or incinerate container.

14. TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION (DOT)

PACKAGING TYPE: 14 oz. Container
PROPER SHIPPING NAME: Consumer Commodity
PRIMARY HAZARD CLASS / DIVISION: ORM-D

INTERNATIONAL MARITIME DANGEROUS GOODS (IMDG)

PACKAGING TYPE: 14 oz. Container
PROPER SHIPPING NAME: Aerosols
PRIMARY HAZARD CLASS / DIVISION: 2.1
UN/NA NUMBER: UN 1950

INTERNATIONAL CIVIL AVIATION ORGANIZATION (ICAO) / INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA)

PACKAGING TYPE: 14 oz. Container
PROPER SHIPPING NAME: Consumer Commodity
PRIMARY HAZARD CLASS / DIVISION: 9
UN/NA NUMBER: ID8000

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355, APPENDIX A):
Not listed

SECTION 311 HAZARD CATEGORIES (40 CFR 370):

Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard, Fire, Pressure

SECTION 312 THRESHOLD PLANNING QUANTITY (40 CFR 370):

The Threshold Planning Quantity (TPQ) for this product, if treated as a mixture, is 10,000 lbs; however, this product contains the following ingredients with a TPQ of less than 10,000 lbs.:
None

SECTION 313 REPORTABLE INGREDIENTS (40 CFR 372):

This product contains the following ingredients subject to Section 313 reporting requirements:
Propoxur

CERCLA (COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT)**CERCLA DESIGNATION & REPORTABLE QUANTITIES (RQ) (40 CFR 302.4):**

Listed

Chemical Name

Propoxur

RQ

100 lb

U.S. STATES**California Prop 65:**

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

16. OTHER INFORMATION

REVISION SUMMARY:

This MSDS replaces Revision #1, dated January 26, 2010.

Changes in information are as follows:

Section 15 (Regulatory Information)

Section 16 (Other Information)

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