

# SAFETY DATA SHEET

Invader Insecticide

SDS #: 6605-A  
Revision date: 2016-05-26  
Format: NA  
Version 1.05



## 1. PRODUCT AND COMPANY IDENTIFICATION

### Product Identifier

Product Name: Invader Insecticide

### Other means of identification

Product Code(s): 6605-A

Synonyms: 2-(1-methylethoxy) phenylmethyl carbamate (CAS name); 2-isopropoxyphenyl methylcarbamate (IUPAC name)

Active Ingredient(s): Propoxur

Chemical Family: Carbamate Pesticide

### Recommended use of the chemical and restrictions on use

Recommended Use: Pesticide

Restrictions on Use: Use as recommended by the label

### Manufacturer Address

FMC Corporation  
2929 Walnut Street  
Philadelphia, PA 19104  
(215) 299-6000 (General Information)  
msdsinfo@fmc.com (E-Mail General Information)

### Emergency telephone number

For leak, fire, spill or accident emergencies, call:  
1 800 / 424 9300 (CHEMTREC - U.S.A.)  
1 703 / 527 3887 (CHEMTREC - Collect - All Other Countries)

Medical Emergencies:  
1 800 / 331-3148 (PROSAR - U.S.A. & Canada)  
1 651 / 632-6793 (PROSAR - All Other Countries - Collect)

## 2. HAZARDS IDENTIFICATION

### Classification

#### OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 2
Acute toxicity - Inhalation (Dusts/Mists)	Category 3
Serious eye damage/eye irritation	Category 1
Aspiration toxicity	Category 1
Flammable Aerosols	Category 1

GHS Label elements, including precautionary statements

**EMERGENCY OVERVIEW**

**Danger**

**Hazard Statements**  
 H300 - Fatal if swallowed  
 H304 - May be fatal if swallowed and enters airways  
 H318 - Causes serious eye damage  
 H331 - Toxic if inhaled  
**EXTREMELY FLAMMABLE AEROSOL**

**Precautionary Statements - Prevention**

- P264 - Wash face, hands and any exposed skin thoroughly after handling
- P270 - Do not eat, drink or smoke when using this product
- P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
- P280 - Wear protective gloves and protective clothing

**Precautionary Statements - Response**

- P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P310 - Immediately call a POISON CENTER or doctor
- P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
- P311 - Call a POISON CENTER or doctor
- P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor
- P331 - Do NOT induce vomiting
- P330 - Rinse mouth

**Precautionary Statements - Storage**

- P405 - Store locked up
- P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

**Precautionary Statements - Disposal**

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

**Hazards not otherwise classified (HNOC)**

No hazards not otherwise classified were identified.

**Other Information**

Harmful to aquatic life with long lasting effects. Harmful to aquatic life. May be harmful in contact with skin.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Chemical Family** Carbamate Pesticide.

Chemical name	CAS-No	Weight %
Propoxur	114-26-1	1
Carbon Dioxide	124-38-9	1-5
Petroleum distillates, hydrotreated light	64742-47-8	60-80
n-Propanol	71-23-8	10-20

Synonyms are provided in Section 1.

**4. FIRST AID MEASURES**

<b>Eye Contact</b>	Hold eyes 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 further treatment advice.
<b>Skin Contact</b>	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for further treatment advice.
<b>Inhalation</b>	Move to fresh air. If person is not breathing, call 911 (within the U.S. and Canada) or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
<b>Ingestion</b>	Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. Do not induce vomiting or give anything by mouth to an unconscious person.
<b>Most important symptoms and effects, both acute and delayed</b>	Central nervous system effects.
<b>Indication of immediate medical attention and special treatment needed, if necessary</b>	Contains petroleum distillate. Vomiting may cause aspiration pneumonia. This product contains an N-methyl carbamate that inhibits cholinesterase. Atropine sulfate is antidotal.

**5. FIRE-FIGHTING MEASURES**

<b>Suitable Extinguishing Media</b>	Foam. Carbon dioxide (CO <sub>2</sub> ). Dry chemical. Water spray.
<b>Specific Hazards Arising from the Chemical</b>	Contents under pressure.
<b>Explosion data</b>	
<b>Sensitivity to Mechanical Impact</b>	Yes.
<b>Sensitivity to Static Discharge</b>	Yes.
<b>Protective equipment and precautions for firefighters</b>	Isolate fire area. Evaluate downwind. In the event of fire, wear self contained breathing apparatus.

**6. ACCIDENTAL RELEASE MEASURES**

<b>Personal Precautions</b>	Isolate and post spill area. Remove all sources of ignition. Ventilate the area. Wear suitable protective clothing, gloves and eye/face protection. For personal protection see section 8. If ventilation is not possible wear full protection suit and chemical protective equipment.
<b>Other</b>	For further clean-up instructions, call FMC Emergency Hotline number listed in Section 1 "Product and Company Identification" above.
<b>Environmental Precautions</b>	See Section 12 for additional Ecological Information.
<b>Methods for Containment</b>	Prevent further leakage or spillage if safe to do so.
<b>Methods for cleaning up</b>	Transfer damaged cartridges or cans to containers for later disposal. Clean and neutralize spill area, tools and equipment by washing with bleach water and soap. Waste must be classified and labeled prior to recycling or disposal. Dispose of waste as indicated in Section 13. Rinsate may be disposed at a waste water treatment plant.

**7. HANDLING AND STORAGE**

<b>Handling</b>	Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal.
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**Invader Insecticide**

**SDS # :** 6605-A  
**Revision date:** 2016-05-26  
**Version** 1.05

**BEWARE:** Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 130°F. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects.

**Storage**

Keep in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep out of reach of children and animals. Keep/store only in original container.

**Incompatible products**

Strong oxidizing agents. Bases. Powdered earth metals.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Control parameters

Chemical name	ACGIH TLV	OSHA PEL	NIOSH	Mexico
Propoxur (114-26-1)	TWA: 0.5 mg/m <sup>3</sup>	-	TWA: 0.5 mg/m <sup>3</sup>	Mexico: TWA 0.05 mg/m <sup>3</sup> Mexico: STEL 2 mg/m <sup>3</sup>
Carbon Dioxide (124-38-9)	STEL 30000 ppm TWA: 5000 ppm	TWA: 5000 ppm TWA: 9000 mg/m <sup>3</sup>	IDLH: 40000 ppm TWA: 5000 ppm TWA: 9000 mg/m <sup>3</sup> STEL: 30000 ppm STEL: 54000 mg/m <sup>3</sup>	Mexico: TWA 5000 ppm Mexico: TWA 9000 mg/m <sup>3</sup> Mexico: STEL 15000 ppm Mexico: STEL 27000 mg/m <sup>3</sup>
n-Propanol (71-23-8)	TWA: 100 ppm	TWA: 200 ppm TWA: 500 mg/m <sup>3</sup>	IDLH: 800 ppm TWA: 200 ppm TWA: 500 mg/m <sup>3</sup> STEL: 250 ppm STEL: 625 mg/m <sup>3</sup>	Mexico: TWA 200 ppm Mexico: TWA 500 mg/m <sup>3</sup> Mexico: STEL 250 ppm Mexico: STEL 625 mg/m <sup>3</sup>
Chemical name	British Columbia	Quebec	Ontario TWAEV	Alberta
Propoxur (114-26-1)	TWA: 0.5 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup>
Carbon Dioxide (124-38-9)	TWA: 5000 ppm STEL: 15000 ppm	TWA: 5000 ppm TWA: 9000 mg/m <sup>3</sup> STEL: 30000 ppm STEL: 54000 mg/m <sup>3</sup>	TWA: 5000 ppm  STEL: 30000 ppm	TWA: 5000 ppm TWA: 9000 mg/m <sup>3</sup> STEL: 30000 ppm STEL: 54000 mg/m <sup>3</sup>
Petroleum distillates, hydrotreated light (64742-47-8)	TWA: 200 mg/m <sup>3</sup> Skin	-	-	-
n-Propanol (71-23-8)	TWA: 100 ppm	TWA: 200 ppm TWA: 492 mg/m <sup>3</sup> STEL: 250 ppm STEL: 614 mg/m <sup>3</sup> Skin	TWA: 100 ppm	TWA: 200 ppm TWA: 492 mg/m <sup>3</sup> STEL: 400 ppm STEL: 984 mg/m <sup>3</sup>

Appropriate engineering controls

**Engineering measures**

Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

Individual protection measures, such as personal protective equipment

**Eye/Face Protection**

If there is a potential for exposure to particles which could cause eye discomfort, wear chemical goggles.

**Skin and Body Protection**

Wear long-sleeved shirt, long pants, socks, and shoes.

**Hand Protection**

Wear chemical protective gloves made of materials such as nitrile or neoprene

**Respiratory Protection**

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations.

**Hygiene measures**

Clean water should be available for washing in case of eye or skin contamination. Wash skin prior to eating, drinking, chewing gum or using tobacco. Shower or bathe at the end of working. Remove and wash contaminated clothing before re-use. Launder work clothing separately from regular household laundry.

**General information**

If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers. These recommendations apply to the product as supplied

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

<b>Appearance</b>	Clear
<b>Physical State</b>	Aerosol
<b>Color</b>	No information available
<b>Odor</b>	Alcohol
<b>Odor threshold</b>	No information available
<b>pH</b>	No information available
<b>Melting point/freezing point</b>	Not applicable
<b>Boiling Point/Range</b>	No information available
<b>Flash point</b>	6.7 °C / 44 °F >36" w/flashback Tag Closed Cup
<b>Evaporation Rate</b>	No information available
<b>Flammability (solid, gas)</b>	No information available
<b>Flammability Limit in Air</b>	
Upper flammability limit:	No information available
Lower flammability limit:	No information available
<b>Vapor pressure</b>	No information available
<b>Vapor density</b>	No information available
<b>Density</b>	6.58 lb/gal
<b>Specific gravity</b>	No information available
<b>Water solubility</b>	No information available
<b>Solubility in other solvents</b>	No information available
<b>Partition coefficient</b>	No information available
<b>Autoignition temperature</b>	No information available
<b>Decomposition temperature</b>	No information available
<b>Viscosity, kinematic</b>	No information available
<b>Viscosity, dynamic</b>	No information available
<b>Explosive properties</b>	No information available
<b>Oxidizing properties</b>	No information available
<b>Molecular weight</b>	No information available
<b>Bulk density</b>	No information available

## 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	Not applicable
<b>Chemical Stability</b>	Stable under recommended storage conditions.
<b>Possibility of Hazardous Reactions</b>	None under normal processing.
<b>Hazardous polymerization</b>	Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	Heat (temperatures above flash point), sparks, ignition points, flames, static electricity
<b>Incompatible materials</b>	Strong oxidizing agents. Bases. Powdered earth metals.
<b>Hazardous Decomposition Products</b>	Carbon oxides (COx), Hydrogen fluoride, Carbonyl fluoride.

## 11. TOXICOLOGICAL INFORMATION

**Product Information**

<b>LD50 Oral</b>	Propoxur: 47 mg/kg (female rat)
<b>LD50 Dermal</b>	Propoxur: > 2002 2000 mg/kg (rabbit)

**Invader Insecticide**

**SDS # : 6605-A**  
**Revision date: 2016-05-26**  
**Version 1.05**

**LC50 Inhalation** Propoxur > 2.616 mg/L 1 hr (rat) (dust)  
**LC50 Inhalation** Propoxur: > 1.992 mg/L (1-hr) (4-hr) (aerosol)  
**Serious eye damage/eye irritation** Irritating to eyes.  
**Skin corrosion/irritation** Slightly or non-irritating (rabbit).  
**Sensitization** Non-sensitizer

**Information on toxicological effects**

**Symptoms** No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Chronic toxicity** Propoxur: Chronic (long-term) inhalation exposure has resulted in depressed cholinesterase levels, headaches, vomiting, and nausea in humans. Chronic ingestion studies in animals have reported depressed cholinesterase levels, depressed body weight, effects to the liver and bladder, and a slight increase in neuropathy.  
**Mutagenicity** Propoxur: Not genotoxic in laboratory studies.  
**Carcinogenicity** Propoxur: Chronic exposure of laboratory animals to repeated doses of propoxur adversely affected the bladder epithelium of rats, causing hyperplasia, papillomas, and carcinomas. Repetitive dosing with propoxur resulted in hepatocellular adenomas in the livers of rats and mice.  
**Neurological effects** Propoxur: Clinical signs of neurotoxicity in laboratory animals include gait abnormalities, involuntary clonic motor movements, labored breathing, decreased activity, and impaired reflexes.  
**Reproductive toxicity** Propoxur: No toxicity to reproduction in animal studies.  
**Developmental toxicity** Propoxur: Not teratogenic in animal studies.  
**STOT - single exposure** No information available.  
**STOT - repeated exposure** No information available.  
**Target organ effects** Propoxur: Central nervous system, bladder, liver  
**Neurological effects** Propoxur: Clinical signs of neurotoxicity in laboratory animals include gait abnormalities, involuntary clonic motor movements, labored breathing, decreased activity, and impaired reflexes.  
**Aspiration hazard** Potential for aspiration if swallowed.

Chemical name	ACGIH	IARC	NTP	OSHA
Propoxur 114-26-1	A3	Group 2A		

**Legend:**  
 ACGIH (*American Conference of Governmental Industrial Hygienists*)  
 A3 - *Animal Carcinogen*

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Persistence and degradability** No information available.  
**Bioaccumulation** No information available.  
**Mobility** No information available.

**13. DISPOSAL CONSIDERATIONS**

**Waste disposal methods** Improper disposal of excess pesticide, spray mixture, or rinsate is prohibited. If these wastes cannot be disposed of by use according to label instructions, contact appropriate disposal authorities for guidance.  
**Contaminated Packaging** Containers must be disposed of in accordance with local, state and federal regulations.

Refer to the product label for container disposal instructions.

**14. TRANSPORT INFORMATION**

**DOT** USDOT is requiring that products formerly classified as "Consumer Commodity, ORM-D" transition to "Limited Quantity" by 12/31/2020. During the transition period the 49CFR carton shipping marks may be Consumer Commodity (old) or Limited Quantity Diamond (new). Please prepare shipping documents to match the carton mark.

**Proper Shipping Name** Consumer commodity  
**Hazard class** ORM-D

**TDG**  
**UN/ID no** UN1950  
**Proper Shipping Name** Aerosols  
**Hazard class** 2.1  
**Description** UN1950, Aerosols, 2.1

**Marine Pollutant** Np

**ICAO/IATA**  
**UN/ID no** ID8000  
**Proper Shipping Name** Consumer commodity  
**Hazard class** 9

**IMDG/IMO**  
**UN/ID no** UN1950  
**Proper Shipping Name** Aerosols  
**Hazard class** 2  
**EmS No.** F-D, S-U  
**Description** UN1950, Aerosols, 2.1

**15. REGULATORY INFORMATION**

**U.S. Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical name	CAS-No	Weight %	SARA 313 - Threshold Values %
Propoxur - 114-26-1	114-26-1	1	1.0

**SARA 311/312 Hazard Categories**

**Acute health hazard** Yes  
**Chronic health hazard** Yes  
**Fire hazard** Yes  
**Sudden release of pressure hazard** No  
**Reactive Hazard** No

**Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Propoxur 114-26-1	100 lb 45.4 kg	

**Invader Insecticide**

SDS #: 6605-A  
 Revision date: 2016-05-26  
 Version 1.05

Propoxur 114-26-1	100 lb 45.4 kg	
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**FIFRA Information**

*This chemical is a pesticide product registered by the 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, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:*

**CAUTION**

*Harmful if swallowed, inhaled or absorbed through the skin.  
 This product is toxic to wildlife and aquatic invertebrates.*

**US State Regulations**

**California Proposition 65**

This product contains the following Proposition 65 chemicals.

Chemical name	California Prop. 65
Propoxur - 114-26-1	Carcinogen

**U.S. State Right-to-Know Regulations**

Chemical name	New Jersey	Massachusetts	Pennsylvania
Propoxur 114-26-1	X	X	X
Carbon Dioxide 124-38-9	X	X	X
n-Propanol 71-23-8	X	X	X

**International Inventories**

Chemical name	TSCA (United States)	DSL (Canada)	EINECS/ELINCS (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)
Propoxur 114-26-1		X	X	X		X	X	X
Carbon Dioxide 124-38-9	X	X	X	X	X	X	X	X
Petroleum distillates, hydrotreated light 64742-47-8	X	X	X		X	X	X	X
n-Propanol 71-23-8	X	X	X	X	X	X	X	X

Chemical name	Carcinogen Status	Mexico
Propoxur		Mexico: TWA 0.05 mg/m <sup>3</sup> Mexico: STEL 2 mg/m <sup>3</sup>
Carbon Dioxide		Mexico: TWA 5000 ppm Mexico: TWA 9000 mg/m <sup>3</sup> Mexico: STEL 15000 ppm Mexico: STEL 27000 mg/m <sup>3</sup>
n-Propanol		Mexico: TWA 200 ppm Mexico: TWA 500 mg/m <sup>3</sup> Mexico: STEL 250 ppm Mexico: STEL 625 mg/m <sup>3</sup>

Chemical name	Mexico - Pollutant Release and	Pollutant Release and Transfer
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**Invader Insecticide**

SDS #: 6605-A  
 Revision date: 2016-05-26  
 Version 1.05

	Transfer Register - Reporting Emissions for Fabrication, Process or Use -Threshold Quantities	Register - Reporting Emissions - Threshold Quantities
Propoxur	100 2500 kg/yr	100 kg/yr
Propoxur	100 2500 kg/yr	100 kg/yr
Carbon Dioxide	100000	100000 kg/yr

**WHMIS Hazard Class**  
 A - Compressed gases  
 B5 - Flammable aerosol  
 D2A - Very toxic materials  
 D2B - Toxic materials



**16. OTHER INFORMATION**

<b>NFPA</b>	Health Hazards 2	Flammability 3	Instability 0	Special Hazards -
<b>HMIS</b>	Health Hazards 2*	Flammability 3	Physical hazard 0	Personal Protection X

\*Indicates a chronic health hazard.

Revision date: 2016-05-26  
 Reason for revision: (M)SDS sections updated

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 End of Safety Data Sheet