

SAFETY DATA SHEET
Invader Insecticide

SDS #: 6605-A
Revision date: 2021-02-16
Format: NA
Version 1.07



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.

Supplier Address

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

Emergency telephone number

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

For leak, fire, spill or accident emergencies, call:
1 800 / 424-9300 (CHEMTREC - U.S.A.)
1 703 / 741-5970 (CHEMTREC - International)
1 703 / 527-3887 (CHEMTREC - Alternate)

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

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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

Eye Contact	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.
Skin Contact	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.
Inhalation	Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
Ingestion	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.
Most important symptoms and effects, both acute and delayed	Central nervous system effects.
Indication of immediate medical attention and special treatment needed, if necessary	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

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Small Fire	Dry chemical. Carbon dioxide (CO ₂).
Large Fire	Water spray. Foam.
Unsuitable extinguishing media	Avoid heavy hose streams.
Specific Hazards Arising from the Chemical	Contents under pressure.
Explosion data	
Sensitivity to Mechanical Impact	Yes.
Sensitivity to Static Discharge	Yes.
Protective equipment and precautions for firefighters	In the event of fire, wear self contained breathing apparatus. Isolate fire area. Evaluate upwind.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	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.
Other	For further clean-up instructions, call FMC Emergency Hotline number listed in Section 1 "Product and Company Identification" above.
Environmental Precautions	Keep people and animals away from and upwind of spill/leak. Keep material out of lakes, streams, ponds, and sewer drains. Keep out of waterways.

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Transfer damaged cartridges or cans to containers for later disposal. Clean and neutralize spill area, tools and equipment by washing with 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

Handling Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal. BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 130°F (56°C). 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 ³	-	TWA: 0.5 mg/m ³	Mexico: TWA 0.5 mg/m ³
Carbon Dioxide (124-38-9)	STEL 30000 ppm TWA: 5000 ppm	TWA: 5000 ppm TWA: 9000 mg/m ³	IDLH: 40000 ppm TWA: 5000 ppm TWA: 9000 mg/m ³ STEL: 30000 ppm STEL: 54000 mg/m ³	Mexico: TWA 5000 ppm Mexico: STEL 30000 ppm
n-Propanol (71-23-8)	TWA: 100 ppm	TWA: 200 ppm TWA: 500 mg/m ³	IDLH: 800 ppm TWA: 200 ppm TWA: 500 mg/m ³ STEL: 250 ppm STEL: 625 mg/m ³	Mexico: TWA 100 ppm
Chemical name	British Columbia	Quebec	Ontario TWA/EV	Alberta
Propoxur (114-26-1)	TWA: 0.5 mg/m ³	TWA: 0.5 mg/m ³	TWA: 0.5 mg/m ³	TWA: 0.5 mg/m ³
Carbon Dioxide (124-38-9)	TWA: 5000 ppm STEL: 15000 ppm	TWA: 5000 ppm TWA: 9000 mg/m ³ STEL: 30000 ppm STEL: 54000 mg/m ³	TWA: 5000 ppm STEL: 30000 ppm	TWA: 5000 ppm TWA: 9000 mg/m ³ STEL: 30000 ppm STEL: 54000 mg/m ³
Petroleum distillates, hydrotreated light (64742-47-8)	TWA: 200 mg/m ³ Skin	-	-	-
n-Propanol (71-23-8)	TWA: 100 ppm	TWA: 100 ppm	TWA: 100 ppm	TWA: 200 ppm TWA: 492 mg/m ³ STEL: 400 ppm STEL: 984 mg/m ³

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	Tightly fitting safety goggles. Face-shield.
Skin and Body Protection	Minimize skin contamination by following good industrial hygiene practices.
Hand Protection	Use protective gloves made of chemical materials such as nitrile or neoprene. Wash the outside of gloves with soap and water before reuse. Check regularly for leaks.
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

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

10. STABILITY AND REACTIVITY

Reactivity	Not applicable
Chemical Stability	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	None under normal processing.
Hazardous polymerization	Hazardous polymerization does not occur.

Conditions to avoid Heat (temperatures above flash point), sparks, ignition points, flames, static electricity

Incompatible materials Strong oxidizing agents. Bases. Powdered earth metals.

Hazardous Decomposition Products Carbon oxides (COx), Hydrogen fluoride, Carbonyl fluoride.

11. TOXICOLOGICAL INFORMATION

Product Information

LD50 Oral Propoxur: 47 mg/kg (female rat)
LD50 Dermal Propoxur: > 2000 mg/kg (rabbit)
LC50 Inhalation (dust) Propoxur > 2.616 mg/L 1 hr (rat) (dust)
LC50 Inhalation (vapor) 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

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation (vapor)
Petroleum distillates, hydrotreated light (64742-47-8)	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5.2 mg/L (Rat) 4 h
n-Propanol (71-23-8)	= 1870 mg/kg (Rat)	= 4049 mg/kg (Rabbit)	> 13548 ppm (Rat) 4 h

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			

Legend:

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

12. ECOLOGICAL INFORMATIONEcotoxicity

Chemical name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
Petroleum distillates, hydrotreated light 64742-47-8		96 h LC50: = 2.2 mg/L (Lepomis macrochirus) static 96 h LC50: = 2.4 mg/L (Oncorhynchus mykiss) static 96 h LC50: = 45 mg/L (Pimephales promelas) flow-through	96 h LC50: = 4720 mg/L (Den-dronereides heteropoda)
n-Propanol 71-23-8		96 h LC50: = 4480 mg/L (Pimephales promelas) flow-through	48 h EC50: 3339 - 3977 mg/L (Daphnia magna) Static 48 h EC50: = 3642 mg/L (Daphnia magna)

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. Proper personal protective equipment, as described in Sections 7 and 8, must be worn while handling materials for waste disposal.

Contaminated containers and packages 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 Ship as Limited Quantity. Carton marks include Limited Quantity mark and orientation arrows.

UN/ID no UN1950
Proper Shipping Name Aerosols, flammable
Hazard class 2.1
Description UN1950, Aerosols, flammable, 2.1, Limited Quantity

TDG Ship as Limited Quantity. Carton marks include Limited Quantity mark and orientation arrows.

UN/ID no UN1950
Proper Shipping Name Aerosols, flammable
Hazard class 2.1
Description UN1950, Aerosols, flammable, 2.1, Limited Quantity

ICAO/IATA Ship as Limited Quantity. Carton marks include Limited Quantity mark and orientation arrows.

UN/ID no UN1950
Proper Shipping Name Aerosols, flammable
Hazard class 2.1
Description UN1950, Aerosols, flammable, 2.1, Limited Quantity

IMDG/IMO Ship as Limited Quantity. Carton marks include Limited Quantity mark and orientation arrows.

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

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Description UN1950, Aerosols, 2.1, Limited Quantity

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	

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	X	X	X

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124-38-9			
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

CANADA

Not applicable

16. OTHER INFORMATION

NFPA	Health Hazards 3	Flammability 3	Instability 0	Special Hazards -
HMIS	Health Hazards 3	Flammability 3	Physical hazard 0	Personal Protection X

**Indicates a chronic health hazard.*

NFPA/HMIS Ratings Legend

Severe = 4; Serious = 3; Moderate = 2; Slight = 1; Minimal = 0

Revision date: 2021-02-16
Reason for revision: SDS sections updated.

Disclaimer

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End of Safety Data Sheet