

MATERIAL SAFETY DATA SHEET

Propoxur 20% EC

Date: 2017.6.23

Version: 3

Section 1: Chemical Product and Company Identification

Product name : Propoxur 20% EC
Chemical Name : 2-(1-methylethoxy)phenyl methylcarbamate
Synonym : 2-isopropoxyphenyl methylcarbamate
Recommended Use : Insecticide

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Section 2: Hazards Identification

GHS classification:

Acute toxicity (oral), Category 3, H301

Hazardous to the aquatic environment: Chronic hazard, Category 1, H410

Signal word: Danger

New lable



Hazard statements:

H301 Toxic if swallowed.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements:

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

P391 Collect spillage.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local regulation.

Section 3: Composition and Information on Ingredients



Component Name	CAS No.	Concentration % by Weight
Propoxur	114-26-1	Min.20

Section 4: First Aid Measures

General advice:	Have the product container, label or Material Safety Data Sheet with you when calling a poison control center or doctor, or going for treatment.
Inhalation:	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
Skin contact:	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Wash clothing before reuse. Get medical attention immediately.
Eye contact:	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.
Ingestion:	If vomiting occurs, keep head lower than hips to help prevent aspiration. Use a bag valve mask or similar device to perform artificial respiration (rescue breathing) if needed. Contact local poison control center or physician immediately. Get medical attention immediately.
Symptoms:	The symptoms are of cholinesterase inhibition.
Medical advice:	Have the product container, label or Material Safety Data Sheet with you when calling a poison control center or doctor, or going for treatment. For inhalation, consider oxygen. For ingestion, consider gastric lavage. Consider oxygen. Avoid depressants.

Section 5: Firefighting Measures

Fire and Explosion Hazards:	In the event of fire the formation of hydrogen chloride, hydrogen cyanide, carbon monoxide, methyl isocyanate and nitrogen oxides must be anticipated..
Suitable extinguishing media:	Water spray, foam, CO ₂ , sand.
Extinguishing media which must not be used for safety reasons:	Do not use a solid water stream as it may scatter and spread fire.
Special protective equipment for firefighters:	Full face mask with combination filter. Respirator with independent air supply
Further information:	Fight fire in early stages if safe to do so. Do not breathe fumes. Wear respiratory protection.

Section 6: Accidental Release Measures

Personal precautions:	Use personal protective equipment. Avoid contact of spilled materials and runoff with soil and surface waterways. Ensure adequate ventilation.
Environmental precautions:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
Methods for cleaning up:	Take up spilled product with absorbent material (e.g. sand, earth or a proprietary absorbent material). Fill materials taken up into sealable container. Clean the floor and all objects contaminated by this material thoroughly by using a damp cloth. Also place used cleaning materials into sealable receptacles.



Section 7: Handling and Storage

HANDLING

Advice on safe handling: Use only in area provided with appropriate exhaust ventilation.
Avoid inhalation, ingestion, or contact with skin or eyes.
Wash thoroughly with soap and water after handling and before eating or smoking.
Keep out of the reach of children.
Avoid release to the environment in circumstances different to normal use.

STORAGE

Advice on storage: Store in original container and keep closed only.
Store in cool, dry and well-ventilated place.
Do not use, pour, or store near heat or open flame.
Keep out of reach of children and domestic animals.

Other data: Physically and chemically stable for at least 2 years when stored in the original unopened sales container at ambient temperatures.

Section 8: Exposure Controls/Personal Protection

EXPOSURE LIMITS

No exposure standards have been set for this product or the active ingredients.

PERSONAL PROTECTIVE EQUIPMENT

Protective measures: Ventilation equipment should be explosion-resistant if explosive concentrations of material are present.
Provide local exhaust or process enclosure ventilation system.

Respiratory protection: For maximum protection, wear a supplied air, full-facepiece respirator, airlined hood, or full-facepiece self-contained breathing apparatus.

Hand protection: Wear appropriate chemical resistant gloves.

Eye protection: To protect against accidental eye contact, goggles/face-shield should be worn.

Skin and body protection: Rubber gloves should be worn.
Wash thoroughly with soap and water after handling.

Section 9: Physical and Chemical Properties

Physical state and appearance: Yellow-brown clear liquid
Molecular Weight: 209.2 (propoxur)
Color: Yellow-brown
Flash point: 55 °C
Melting Point: N/A
Boiling Point: N/A
Density: Approx. 1,036 g/cm³ at 20°C
Solubility: Emulsifies

Section 10: Stability and Reactivity

Stability: Stable under the normal handling and storage conditions.
Conditions to avoid: Avoid mixed with highly reactive chemicals such as strong acid, strong base or strong oxidizing agent.

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Hazardous decomposition products: The substance decomposes on heating and on burning producing toxic and irritating fumes including carbon oxides and nitrogen oxides.

Hazardous reactions: No hazardous reactions when stored and handled according to prescribed instructions.

Section 11: Toxicological Information

Toxicity to Animals: LD₅₀ oral for rats 230 mg/kg.
LD₅₀ dermal for rats >5000 mg/kg.
Moderate eyes irritant.
Mild skin irritant.

Potential health effects:

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion Harmful if swallowed.

Skin May cause skin irritation.

Eyes May cause eye irritation.

Section 12: Ecological Information

ENVIRONMENTAL DATA

Animals In rats, the principal metabolites are 2-hydroxyphenyl-N-methylcarbamate and 2-isopropoxyphenol; minor metabolites include 5-hydroxy propoxur and N-hydroxymethyl propoxur. Elimination is very rapid, 96% excreted in the urine.

Plant The primary metabolite is demethyl propoxur (max. amount 2.7-3.6%).

Soil/Environment The mobility of propoxur in the soil is relatively high. The compound rapidly degrades in different soils.

ECOTOXICOLOGICAL INFORMATION

Birds Dietary LC₅₀ (5 d) for bobwhite quail 2762, mallard ducks >5000 mg/kg diet.

Fish LC₅₀ (96 h) for bluegill sunfish 6.2-6.6, rainbow trout 3.7-13.6, golden orfe 12.4 mg/l.

Daphnia LC₅₀ (48 h) 0.15 mg/l.

Bees Highly toxic to bees.

Section 13: Disposal Considerations

Product: Disposal of product would be treated, stored, transported, and disposed of according to the local waste regulation authority.

Container: Do not re-use containers.
Follow all local/regional/national/international regulation.

Section 14: Transport Information

Land transport

ADR/ RID: UN-No: 2992
Class: 6.1
Packaging group II
Proper shipping name : Carbamat pesticide, liquid, toxic, N.O.S.

Sea transport

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IMO:

UN-No: 2992

Class: 6.1

Packaging group II

Proper shipping name : Carbamat pesticide, liquid, toxic, N.O.S.

Marine pollutant : Marine pollutant

Air transport

IATA-DGR:

UN-No: 2992

Class: 6.1

Packaging group II

Proper shipping name : Carbamat pesticide, liquid, toxic, N.O.S.

Section 15: Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture:

no data available

Section 16: Other Information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.