

# MATERIAL SAFETY DATA SHEET

## TRANSPORTEX

(PROPOXUR 20% EC)

## Table of Contents:

1.	Product and company identification	9.	Physical and chemical properties
2.	Composition/information on ingredients	10.	Stability and reactivity
3.	Hazards identification	11.	Toxicological information
4.	First aid measures	12.	Ecological information
5.	Fire-fighting measures	13.	Disposal considerations
6.	Accidental release measures	14.	Transport information
7.	Handling and storage	15.	Regulatory information
8.	Exposure controls/personal protection	16.	Other information

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name : **TRANSPORTEX** (Propoxur 20% w/w EC)  
Chemical Name : 2-(1-methylethoxy)phenyl methylcarbamate  
Synonyms : 2-isopropoxyphenyl methylcarbamate  
Recommended Use : Insecticide

Company : **FMC INDIA PRIVATE LIMITED**  
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### 2. COMPOSITION/INFORMATION ON INGREDIENTS

#### 2.1. ACTIVE INGREDIENTS

**Propoxur**

Chemical Family ..... Carbamate insecticide  
CAS No. .... 114-26-1  
Molecular Formula ..... C<sub>11</sub>H<sub>15</sub>NO<sub>3</sub>  
Synonyms ..... 2-isopropoxyphenyl methylcarbamate

#### 2.2. COMPOSITION:

Component Name	CAS No.	Concentration % by weight
Propoxur	114-26-1	20 %
Solvent plus inert	----	Balance Ingredient

### 3. HAZARDS IDENTIFICATION

GHS classification:

Acute toxicity (oral), Category 3, H301

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

Signal word: Danger

New label



Hazard statements:

H301 Toxic if swallowed.

H410 Very toxic to aquatic life 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.

### 4. FIRST AID MEASURES

- 4.1 **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.
- 4.2 **EYES CONTACT:** Flush with plenty of water at least 15 minutes. Get medical attention if irritation occurs and persists.
- 4.3 **SKIN CONTACT:** Wash with plenty of water at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Wash clothing before reuse. Get medical attention if irritation occurs and persists.
- 4.4 **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. Do not give liquids of any kind to the person. Never give anything by mouth to an unconscious person. Contact local poison control center or physician immediately. Get medical attention immediately.

- 4.5 **INHALATION:** Remove to fresh air. If breathing difficulty or discomfort occurs and persists, give artificial Respiration, get medical attention immediately.
- 4.6 **SYMPTOMS:** The symptoms are of cholinesterase inhibition. Burning sensations on the skin, irritation Of the mucous membranes, coughing and sneezing may be experienced.
- 4.6 **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 gastric lavage. Consider oxygen. Avoid depressants.
- 4.7 **OTHER INFORMATION:** Atropinize the patient immediately and maintain full atropinization by repeated doses of 2-4 mg of atropine sulphate intravenously at 5 to 10 minutes interval. As much as 25 to 50 mg of atropine may be required in a day. The need for further atropine administration is guided by the continuance of symptoms. Extent of salivation is a useful criterion for dose adjustment.

## 5. FIRE-FIGHTING MEASURES

- 5.1. **EXTINGUISHING MEDIA:** Water spray, Foam, CO<sub>2</sub> or dry chemical. Soft stream water for only if necessary. Contain all runoff.
- 5.2 **FIRE EXPLOSION HAZARDOUS:** In the event of fire the formation of hydrogen chloride, hydrogen cyanide, carbon monoxide and methyl isocyanate and nitrogen oxides must be anticipated.
- 5.3 **EXTINGUISHING MEDIA WHICH MUST NOT BE USED FOR SAFETY REASON:** Do not use a solid water stream as it may scatter and spread fire.
- 5.3 **FIRE FIGHTING PROCEDURE:** Isolate fire area. Evacuate downwind. Wear full protective clothing and self-contained breathing apparatus. Do not breathe smoke, gases or vapors generated.
- 5.4 **SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:** Full face mask with combination filter, Respirator with independent air supply.
- 5.5 **FURTHER INFORMATION:** Fight fire in early stages if safe to do so. Do not breathe fumes. Wear respiratory protection.

## 6. ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** 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.

**METHODS FOR CLEANING UP:** Do not touch spilled material. Stop further spillage if you can do it without risk. For small spills, sweep and collect with sand and other absorbent material and place into containers for later disposal. Move containers from the spillage area. For larger spills, dike far ahead of spill for later disposal. Keep uninvolved people away. Isolate hazard area and prevent entry of unwanted persons. Ventilate closed space.

**ENVIRONMENTAL PRECAUTIONS:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Prevent contamination of water.

## 7. HANDLING AND STORAGE

**HANDLING PRECAUTIONS:** Do not eat, drink or smoke when handling; wash hands with soap and water after handling and before eating, drinking or smoking.

**STORAGE** Store in cool, dry, locked and well-ventilated storeroom. Do not use, pour, or store near heat or open flame. Away from children and unauthorized personnel, and food and animal feed.

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

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**EXPOSURE LIMITS:** No exposure standards have been set for this product or the active ingredients.

**ENGINEERING CONTROLS:** Use local exhaust at all process locations where vapor or mist may be emitted. Ventilate all transport vehicles prior to unloading.

### PERSONAL PROTECTIVE EQUIPMENT

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

**RESPIRATORY:** For maximum protection, wear a supplied air, full-facepiece respirator, airlined hood, or full-facepiece self-contained breathing apparatus. Wear appropriate chemical resistant gloves.

**PROTECTIVE CLOTHING:** Depending upon concentrations encountered, wear coveralls or long-sleeved uniform and head covering. For larger exposures as in the case of spills, wear full body cover barrier suit, such as a PVC suit. Leather items- such as shoes, belts and watchbands- that become contaminated should be removed and destroyed. Launder all work clothing before reuse (separately from household laundry).

**GLOVES:** Wear chemical protective gloves made of materials such as nitrile or neoprene. Thoroughly wash the outside of gloves with soap and water prior to removal. Inspect regularly for leaks.

**WORK HYGIENIC PRACTICES:** Clean water should be available for washing in case of eye or skin contamination. Wash skin prior to eating or using tobacco. Shower at the end of the workday.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1	<b>APPEARANCE</b> .....	Liquid
9.2	<b>COLOUR</b> .....	Yellow to light brown
9.3	<b>DENSITY</b> .....	Approx. 1.036 gm / cm <sup>3</sup> at 20°C
9.4	<b>FLASH POINT</b> .....	55°C
9.5	<b>MOLECULAR WEIGHT</b> .....	209.2 (Propoxur)
9.6	<b>Water solubility</b> .....	Emulsifies
9.7	<b>BOILING POINT / RANGE</b> .....	>150 °C

**10. STABILITY AND REACTIVITY**

**STABILITY:** Stable under normal temperatures and pressure.

**CONDITIONS TO AVOID:** Avoid mixed with highly reactive chemicals such as strong acid, strong base or strong oxidizing agent.

**MATERIAL TO AVOID:** Strong-oxidizing agents.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition products may emit toxic fumes of hydrogen chloride and carbon Dioxide, methylamine.

**11. TOXICOLOGICAL INFORMATION**

<b>ACUTE LD50 ORAL WISTER RATS:</b>	1396 mg/kg
<b>ACUTE LD50 DERMAL WISTER RABBITS:</b>	>2000 mg/kg B.W
<b>ACUTE LC50 INHALATION RATS (4 HRS):</b>	0.85 mg/l four hour exposure.
<b>EYE IRRITATION:</b>	Mild irritant
<b>SKIN IRRITATION:</b>	Very Mild irritant
<b>SKIN SENSITIZATION:</b>	Non skin sensitizer
<b>CARCINOGEN STATUS:</b>	Non carcinogenic
<b>MUTAGENECITY:</b>	Non mutagenic
<b>REPRODUCTIVE TOXICITY:</b>	Non teratogenic
<b>WHO CLASS:</b>	Product is unlikely to present any acute hazards in normal use.
<b>EPA TOXICITY CLASS:</b>	Not applicable
<b>ADI (MAN MG/KG):</b>	Data not available

**12. ECOLOGICAL INFORMATION****ENVIRONMENTAL DATA:**

**Animals:** In rats, the principal metabolites are 2-hydroxyphenyl-N-methyl carbamate 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 merabolite is demethyl propoxur (max. amount 2.7 to 3.6%).

**Solid / Environment:** The mobility of the soil relatively high. The compound rapidly degrades in different soils.

**ECOTOXICOLOGICAL INFORMATION:**

**For Birds**

For bobwhite quail LC<sub>50</sub>(5 d)..... 2762 mg/kg diet  
For mallard ducks LC<sub>50</sub>(5 d) ..... > 5000 mg/Kg diet.

**For Fish**

For bluegill sunfish LC<sub>50</sub> (96 h) ..... 6.2 to 6.6 mg/l.  
For rainbow trout LC<sub>50</sub> (96 h) ..... 3.7 to 13.6 mg/l  
For golden orfe LC<sub>50</sub> (96 h) ..... 12.4 mg/l  
**Dalphnia LC<sub>50</sub>v** (48 h) ..... 0.15 mg/l  
**Bees** ..... Highly toxic to bees.

This product has low toxicty to fish and birds

**13. DISPOSAL CONSIDERATIONS**

**PRODUCT DISPOSAL:** Burn in high temperature incinerator with effluent scrubbing or bury in a specially allocated landfill. Always dispose of in accordance with local regulations.

**CONTAINER DISPOSAL:** Do not reuse containers. Follow all local/ regional/ national/ international regulation. Contaminated packaging material should be treated as the product.

**14. TRANSPORT INFORMATION**

**LAND TRANSPORT:**

**ADR / RID:**

UN No. : 2992  
Class: 6.1  
Packaging group: II  
Proper shipping name: Carbamate pesticide, Liquid, toxic, N.O.S.

**IMO:**

UN No. : 2992  
Class: 6.1  
Packaging group: II  
Proper shipping name: Carbamate 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: Carbamate pesticide, Liquid, toxic, N.O.S.

**15. REGULATORY INFORMATION**

**HAZARD SYMBOL** Dangerous for the environment symbol (N)

**RISK PHRASES** R 36 / 38 - Irritating to eyes and skin

**SAFETY PHRASES:**

S 36 / 37 / 39 – Wear suitable protective clothing, gloves and eye/ face protection.

S 57 – Use appropriate containment to avoid environmental contamination.

**16. OTHER INFORMATION**

The information contained in this safety data sheet is given in good faith. It is accurate to the best of our knowledge and belief and represents the most up to date information. The information given in this data sheet does not constitute or replace the user's own assessment or work risk as required by other health and safety legislation. This material should only be used by persons who have been instructed in all safety precautions required and otherwise are familiar with content of data sheet.

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