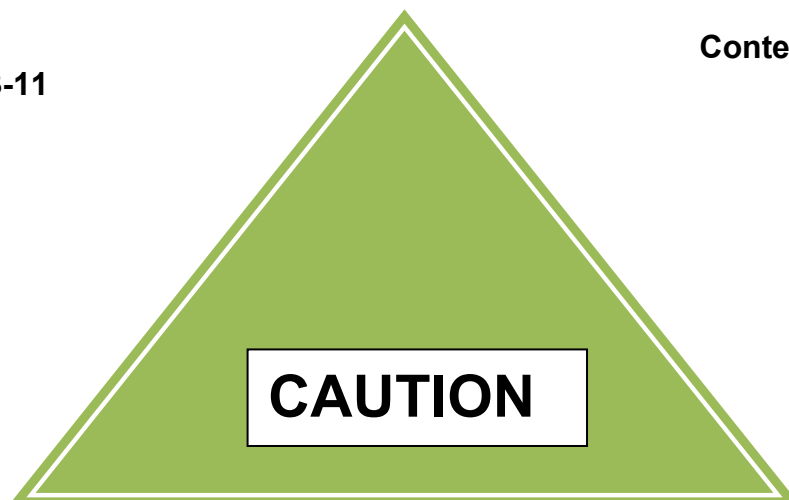


# BLANKET 150 SC

INSECTICIDE

REG No:  
16-D-173-11

Contents: 1 Litre



**HARMFUL IF SWALLOWED**

COMPOSITION: (mass / volume)  
indoxacarb .....150 g / lit  
inert ingredients .....850 g / lit

Chemical Group: Oxadiazine

**Blanket 150 SC** is a broad spectrum insecticide effective against various pests on tobacco, brassicas, maize, peas and potatoes.

**TO CAUSE A HAZARD IN THE USE, STORAGE OR DISPOSAL OF THIS SUBSTANCE IS AN OFFENCE**

Registered by: **Pivotal Agro-Services P/L**  
P O Box WGT 450, Westgate, Harare  
Telephone 309800 / 25

Manufactured by: **Tagros Chemicals India Ltd**

### **PRECAUTIONS:**

1. Handle with care. Avoid splashing/contact. Poisonous by swallowing, inhalation and contact with the skin.
2. WEAR FULL PROTECTIVE CLOTHING i.e. rubber gloves, rubber boots, overalls, hood and respirator when handling this pesticide.
3. **DO NOT** eat, drink or smoke while applying this insecticide.
4. DANGEROUS TO ANIMALS, FISH, BEES AND BIRDS.
5. Remove protective clothing on completion of spraying and wash hands and face thoroughly with soap and water.
6. **DO NOT** CONTAMINATE DRINKING POOLS, DAMS, RIVERS AND WATERWAYS.
7. DANGEROUS TO LIVESTOCK AND DOMESTIC PETS.
8. KEEP OUT OF REACH OF CHILDREN.
9. KEEP APART FROM FOOD AND FOODSTUFFS.
10. Store in original container and KEEP UNDER LOCK AND KEY.
11. Destroy empty container by puncturing and burying. **DO NOT** use for any other purpose.

### **SYMPTOMS OF POISONING:**

Irritation of eye and upper respiratory passages. Cough, blurred vision, redness, swelling or rashes on skin.

### **FIRST AID:**

**IF IN EYES:** Wash eyes for at least 10 minutes under running water with eyelids held open. Consult an eye specialist.

**IF SWALLOWED:** Induce vomiting by tickling the back of the throat. Repeat until vomitus is clear. .

**IF ON SKIN:** Wash skin with plenty of soap and water. If irritation develops seek medical attention.

**IF INHALED:** Keep patient calm, remove to fresh air.

### **NOTE TO PHYSICIAN:**

No specific antidote is known. Treat symptomatically.

### **WARNING:**

Allow the following minimum number of days between the last application and harvesting or grazing: **Brassicas** – 3 days, **Peas** – 3 days, **Potatoes** – 2 days, **Tobacco** – 28 days.

### **SHELF LIFE:**

Two years from date of manufacture (see side of container) if stored in a cool, dry place in original, sealed container.

### **WARRANTY:**

This product and the recommendations concerning its uses should give excellent results, but since the performance of crop protection chemicals and pesticides can be greatly influenced by factors outside the manufacturer's control, the manufacturer and seller give no guarantee or warranty, expressed or implied, concerning the use of the product and they assume no responsibility for damage, injury or loss of profit arising from the use thereof.

**FOR FURTHER INFORMATION ON THIS PRODUCT,  
TELEPHONE HARARE 04 - 309800**

**DIRECTIONS FOR USE:**

**BLANKET 150 SC** can be applied by conventional manually operated knapsack sprayer or power operated sprayers fitted with high or low volume nozzles.

Take the measured quantity of **BLANKET 150 SC** and add to a small quantity of water. Mix thoroughly and then add the remaining quantity of water while stirring vigorously. Ensure that the spray mixture is distributed evenly over the target area.

Use a minimum of 250 liters water per hectare.

<b>CROP</b>	<b>PEST</b>	<b>RATE</b>	<b>APPLICATION</b>
<b>Brassicas</b>	Diamond back moth larvae	250 ml/ha	Start application when eggs are found or very first larvae seen. Apply at 7 – 10 day intervals as a full cover spray. Maximum of 5 sprays per season.
<b>Maize</b>	Fall Army Worm Maize stalk borer Chilo stalk borer	250 ml/ha	Apply at first sign of pest presence. The spray should be directed into the funnel. A second application should be applied 10-12 days after the first application.
<b>Peas</b>	Heliothis bollworm	250 ml/ha	Full cover spray at beginning of flowering. Repeat as necessary. Maximum of 2 sprays per season.
<b>Potatoes</b>	Potato tuber moth	250 ml/ha	Apply at first signs of mines on leaves. Good coverage as a full cover spray is essential. Repeat as necessary.
<b>Tomatoes</b>	Tuta absoluta	250 ml/ha	Apply at first sign of infestation. Repeat at 14 day intervals. Alternate with an insecticide like DYNAMO with a different mode of action to manage resistance.
<b>Tobacco Lands</b> (TRB No: 16-19-D-77)	Budworm	70 ml / 100 lit water (up to 300 ml/ha)	Apply 2 – 4 weeks after transplanting seedlings during the main growth phase. <b>DO NOT</b> apply more than three times per season.
	Leaf miner	70 ml / 100 lit water	Apply soon after planting if leaf miner is present. 3 sprays, 1 week apart may be necessary

**MATERIAL SAFETY DATA SHEET**  
**BLANKET 150 SC (INDOXACARB 15% SC)**

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**1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY**

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<b>Identification of the substance</b>	:	BLANKET 150 SC (Indoxacarb 15% SC)
<b>Use of the substance</b>	:	Insecticide
<b>Manufacturer/supplier</b>	:	Tagros Chemicals India Limited
<b>Address</b>	:	Tagros Chemicals India Ltd. "Jhaver Centre", Rajah Annamalai Building, IV Floor, 72, Marshalls Road, Egmore, Chennai-600 008, India
<b>Emergency telephone number</b>	:	+91-44-42007400
<b>Fax number</b>	:	+91-44-28587873
<b>E-mail</b>	:	info@tagros.com

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**2. HAZARDS IDENTIFICATION**

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**POTENTIAL HEALTH EFFECTS: EMERGENCY OVERVIEW**

<b>Eyes</b>	:	May cause redness, pain and blurred vision.
<b>Skin</b>	:	May be harmful absorbed through the skin. May cause sensitisation from prolonged skin contact.
<b>Ingestion</b>	:	Toxic: danger of serious damage to health by prolonged exposure if swallowed.
<b>Inhalation</b>	:	May be harmful if inhaled. Do not breathe spray mist.
<b>Environment</b>	:	Very toxic to aquatic organisms may cause long-term adverse effects in the aquatic environment. Harmful to terrestrial vertebrates. Very toxic to terrestrial invertebrates.

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### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical name	CAS No.	EC No.	Classification	Con. % w/w
Indoxacarb, methyl (S)-N-[7-chloro-2,3,4a,5-tetrahydro-4a-(methoxycarbonyl)indeno[1,2-e][1,3,4]oxadiazin-2-ylcarbonyl]-4'-(trifluoromethoxy)carbanilate	173584-44-6	---	T; R25-48/25 Xn; R20 R43 N; R50/53	15
Others	---	---	---	85

### 4. FIRST AID MEASURES

<b>Contact with eyes</b>	: Wash with copious amount of water. Avoid exposing affected eyes to bright light. Consult doctor immediately and show the container or this material safety data sheet.
<b>Contact with skin</b>	: Remove contaminated clothing and clean the affected skin area immediately.
<b>Ingestion</b>	: Keep patient calm and reassured, rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Consult doctor immediately.
<b>Inhalation</b>	: If inhaled, remove to fresh air and keep at rest. If patient is not breathing, start artificial respiration immediately. Obtain medical aid if required.

### 5. FIRE FIGHTING MEASURES

<b>Flash point</b>	: Non-flammable
<b>Extinguishing media</b>	: If product is involved in a fire, use water spray, foam, dry powder, carbon dioxide or sand.
<b>Special exposure hazards</b>	: Indoxacarb decomposes in a fire to emit toxic fumes.
<b>Protective equipment for fire-fighting</b>	: Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.
<b>Fire fighting guidance</b>	: Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.

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## 6. ACCIDENTAL RELEASE MEASURES

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- Personal precautions** : Avoid contact with spilled material or contaminated surfaces. If ordinary clothing becomes contaminated, remove it immediately. When dealing with the spillage do not eat, drink or smoke and wear personal protective clothing as detailed in section 8.
- Environmental precautions** : Keep people and animals away. Prevent entry into drains, sewers and watercourses.
- Methods for cleaning up** : Shovel or sweep up. Do not flush with water. Place material in a clean, dry container and cover for disposal. Wash contaminated areas with water and detergent. Prevent liquid from entering sewers, waterways or low areas.
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## 7. HANDLING AND STORAGE

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- Handling** : Wear chemically impervious gloves. Wear safety glasses, goggles or face shield. Mechanical ventilation should be used when handling this product in enclosed spaces. Wash thoroughly after handling. Read and observe all precautions and instructions on the label.
- Storage** : Store in original containers, upright and closed. Store in areas that are cool, dry and well ventilated under lock and key. Store away from seeds, fertilizers and animal feed stuff.
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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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<b>Exposure limit value</b>	: OSHA: 5 mg/m <sup>3</sup> , 8 hr. TWA, respirable dust.
<b>Engineering controls</b>	: Mechanical ventilation should be used when handling this product in closed spaces. Keep container tightly closed.
<b>Respiratory protection</b>	: Respiratory protection should not be required for normal use and handling. When respirators are required, select NIOSH approved equipment.
<b>Hand protection</b>	: Wear chemical resistant gloves.
<b>Eye protection</b>	: Wear safety goggles with imperforated side shield and face shield.
<b>Skin protection</b>	: Avoid contact with skin. Wear apron, boots and full protective suit.
<b>Environmental exposure controls</b>	: Keep away from food, drink and animal feed stuff. This material and its container must be disposed off as hazardous waste. Avoid release to the environment. Refer to special instructions/safety data sheet.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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<b>Physical state</b>	: Liquid
<b>Color</b>	: Off white to ivory
<b>Flash point</b>	: Non flammable
<b>Density</b>	: 1.038 g/ml
<b>Corrosivity</b>	: Non-corrosive
<b>Oxidisation</b>	: Not an oxidiser

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## 10. STABILITY AND REACTIVITY

<b>Stability</b>	: Stable under recommended storage conditions.
<b>Conditions to avoid</b>	: Avoid excessive heat and direct sunlight
<b>Materials to avoid</b>	: Not known
<b>Incompatibility</b>	: Not known

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## 11. TOXICOLOGICAL INFORMATION

<b>Acute toxicity</b>	
<b>LD<sub>50</sub> oral, Rats</b>	: >2000 mg/kg bw (Indoxacarb)
<b>LD<sub>50</sub> dermal, Rats</b>	: >5000 mg/kg bw (Indoxacarb)
<b>LC<sub>50</sub> inhalation, Rats</b>	: >2.7 mg/l (Indoxacarb)
<b>Skin irritation</b>	: Non-irritant to skin of rabbits (Indoxacarb)
<b>Eye irritation</b>	: Non-irritant to eyes of rabbits (Indoxacarb)
<b>Skin sensitization</b>	: Sensitiser to skin of Guinea pigs (Indoxacarb)
<b>Long term studies</b>	
<b>Carcinogenicity</b>	: Non-carcinogenic in rat and mice
<b>Mutagenicity</b>	: Non-mutagenic
<b>Reproductive toxicity</b>	: Non-reprotoxic and teratogenic

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## 12. ECOLOGICAL INFORMATION

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### Ecotoxicity

**Fish** : LC<sub>50</sub> (96 h): bluegill sunfish 0.9, rainbow trout 0.65 mg/l (Indoxacarb).

***Daphnia*** : LC<sub>50</sub> (48 h) 0.60 mg/l (Indoxacarb).

**Algae** : EC<sub>50</sub> (120 hr) > 0.11 mg/l (Indoxacarb).

**Bees** : LD<sub>50</sub> (oral) 23.33 µg/bee; (contact) 1.34 µg/bee (Indoxacarb)

**Worms** : LC<sub>50</sub> (14 d) >1250 mg/kg (Indoxacarb).

**Birds** : Acute oral LD<sub>50</sub> for bobwhite quail 98 mg/kg. Dietary LC<sub>50</sub> (5 d) for mallard ducks >5620, bobwhite quail 808 ppm (Indoxacarb).

**Mobility** : Indoxacarb is moderately hydrophobic with a low water solubility of 0.2 mg/L and a log Kow of 4.6. This, coupled with a moderately high soil sorption coefficient Koc of 2200-9400, indicates a relatively low probability of leaching into ground water. Although some of the major degradates of Indoxacarb had very low Koc values, they also had short half-lives that reduce their probability of leaching into ground water.

**Persistence and degradability** : DT<sub>50</sub> 17 d in tama silt loam soil. DT<sub>50</sub> for aquatic photolysis 3.8 d (pH 5.0).

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## 13. DISPOSAL CONSIDERATIONS

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**Product disposal** : Do not empty into drains or waterways. Disposal of at approved landfill or by incineration. Disposal must be in accordance with applicable local regulations.

**Container disposal** : Triple rinse the container. Puncture the container to avoid re-use. Dispose of empty container in a sanitary landfill or by incineration. If burned, stay out of smoke. Disposal must be in accordance with applicable local regulations.

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#### 14. TRANSPORT INFORMATION

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<b>UN number</b>	: 2902
<b>UN class</b>	: 6.1
<b>UN packaging group</b>	: III
<b>Proper Shipping Name</b>	: PESTICIDE LIQUID, TOXIC, N.O.S
<b>Additional information</b>	: Indoxacarb designated as marine pollutant.

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#### 15. REGULATORY INFORMATION

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<b>Classification</b>	: T: Toxic Xn: Harmful N: Dangerous for the environment
<b>Risk Phrases</b>	: R20: Harmful by inhalation. R25: Toxic if swallowed. R43: May cause sensitisation by skin contact. R48/25: Toxic: danger of serious damage to health by prolonged exposure if swallowed. R50/53: Very toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment.
<b>Safety Phrases</b>	: S1/2: Keep locked up and out of the reach of children. S24: Avoid contact with skin. S37: Wear suitable gloves. S45: In case of accident or if you feel unwell seek medical advice immediately (show the label where possible) S60: This material and its container must be disposed of as hazardous waste. S61: Avoid release to the environment. Refer to special instructions/safety data sheets.

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#### 16. OTHER INFORMATION

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<b>MSDS issued</b>	: 27 <sup>th</sup> July 2013
<b>MSDS Received</b>	: 23 <sup>rd</sup> May 2016

#### **DISCLAIMER**

The above information is intended to give general health and safety guidance on the storage and transport of the substance or product to which it relates. It is not intended to apply to the substance or product for which purposes the substance or product label and any appropriate technical usage literature available should be consulted and any relevant licenses, consents or approvals complied with. The requirement or recommendation of any relevant site or working procedure, system or policy in force or arising from any risk assessment involving the substance or product should take precedence over any of the guidance contained in this safety data sheet where there is a difference in the information given. The information provided in this safety data sheet is accurate at the date of publication and will be updated as and when appropriate. No liability will be accepted for any injury loss or damage resulting from any failure to take account of information or advice contained in this safety data sheet.