



# MATERIAL SAFETY DATA SHEET

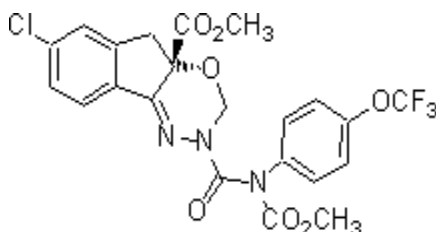
## Index 150 SC

### IDENTIFICATION OF THE SUPPLIER:

**Agro Chemical Industries LTD (ACI)**  
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### PRODUCT IDENTIFICATION:

**Trade Name:** index150 SC  
**Uses category:** insecticide  
**Type of formulation:** suspension Concentrate  
**Common name:** indoxacarb  
**Chemical Name:** 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.  
**Structural formula:**





## PRODUCT COMPOSITION:

### **Active Ingredient:**

|            |          |   |
|------------|----------|---|
| indoxacarb | 15 % w/v | [144171-61-9] DPX-JW062;<br>[173584-44-6] DPX-KN128 |
|------------|----------|---|

### **Inert ingredient:**

|                               |             |
|-------------------------------|-------------|
| Dispersing & suspending agent | 9.9 % w/v   |
| Solvent                       | up to 100 % |

## HAZARDS IDENTIFICATION:

**HSNO Classification:** 6.1D (acute oral toxicant), 6.5B (skin sensitiser), 6.9A (target organ toxicant), 9.1D (aquatic toxicant), 9.3C (terrestrial vertebrate toxicant), 9.4A (terrestrial invertebrate toxicant)

**Hazards :** Harmful-may be harmful if swallowed, inhaled or absorbed through the skin. May cause sensitisation from prolonged skin contact. May cause organ damage from repeated oral exposure at high doses. Ecotoxic - harmful to aquatic organisms. Harmful to terrestrial vertebrates. Very toxic to terrestrial invertebrates

## First AID MEASURES: -

**Inhalation:** move to fresh air. Oxygen or artificial respiration if needed. Consult a physician.

**Skin contact:** wash off immediately with soap and plenty of water. Take off contaminated clothing and shoes immediately. In the case of skin irritation or allergic reaction see a physician. Wash contaminated clothing before re-use.

**Eye contact:** hold eye open and rinse slowly and gently with water for 15-20 min. if eye irritation persists, consult a specialist.

**Ingestion:** obtain medical attention. Do not induce vomiting unless directed to do so by a physician or poison control center. If victim is conscious: rinse mouth with water.





## FIRE-FIGHTING MEASURES: -

|                           |  |         |
|---------------------------|--|---------|
| Flammable properties      | Flash point  | 103.3°C |
|                           | Autoignition   | 266.5°C |
| Extinguishing media       | Water, water spray, foam, dry chemical, CO <sub>2</sub>  |         |
| Fire fighting instruction | Keep personal removed and upwind of fire.<br>Wear self –contained breathing apparatus. Wear full protective equipment .run off from fire control may be a pollution hazard.<br>If the area is exposed to fire and conditions permit, let fire burn itself out . burning chemicals may produce by-products more toxic than the original materials .if product is on fire ,wear self-contained breathing apparatus and full protective equipment |         |
| Hazchem code              | 3Z   |         |

## ACCIDENTAL RELEASE MEASURE:

**Spill precautions:** Use appropriate Personal Protective Equipment during clean up

**Spill containment:** Dyke spill. Prevent liquid from entering the sewers, waterways, or low areas.

**Spill clean-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. Soak up with sawdust, sand or other absorbent material. Shovel or sweep up. Never return to container for reuse.





## HANDLING AND STORAGE:

- **Handling:** avoid skin and eye contact. Avoid inhaling the vapour, or spray mist .wash through after handling. Wash clothing after use.
- Storage:** store in the closed, original container in a dry, well-ventilated area , as cool as possible out of direct sunlight and under lock and key ,keep from contact with fertilizer , fungicides and seeds.  
DON'T store with classes 1,2,3,4 or 5 substances .stores containing more than 10 L of this product, either alone or in aggregate with other hazardous substances are subject to requirement of an emergency management response plane, secondary containment and signage.

## Exposure control / PERSONAL PROTECTION:

**Engineering Controls:** Use only with adequate ventilation. Keep container tightly closed.

**Exposure limits:** STEWARD<sup>®</sup> SC INSECTICIDE PEL (OSHA) Particulate (Not Otherwise Regulated)

15 mg/m<sup>3</sup>, 8 hr. TWA, total dust

5 mg/m<sup>3</sup>, 8 hr. TWA, respirable dust

**Eye Protection:** Wear Safety glasses. Wear coverall chemical splash goggles and face shield when the possibility exists for eye or face contact from airborne material.

**Respiratory Protection:** Respiratory protection should not be required for normal use and handling. During abnormal exposures or when there is a chance that the AEL will be exceeded, use of an approved respirator is recommended.

**Protective Clothing:** Where there is potential for skin contact, have available and wear as appropriate impervious clothing such as gloves, apron, pants, overalls.

## PHYSICAL AND CHEMICAL PROPERTIES:

**Color:** off white to beige liquid

**Odor:** Characteristic odor

**PH:** 7-8

**Density:** 1.03 g/ml ± 0.05

**Water solubility:** miscible in water





## STABILITY AND REACTIVITY:

**Incompatibility:** None reasonably foreseeable

## TOXICOLOGICAL INFORMATION:

**Eye:** Not an eye irritant

**Skin:** A slight to mild skin irritant. And is a skin sensitizer.

**Inhalation** Single inhalation exposure in rats caused lung noise immediately following exposure.

**Ingestion:** Single oral doses caused gait abnormalities, incoordination, hypoactivity, convulsions, tremors, hypothermia, hair loss, laboured respiration, ocular discharge, and vocalisations in rats.

**Toxicity Data Indoxacarb :** Acute oral LD50 3619 mg/kg in male rats, 751 mg/kg in female rats (slight toxicity)

Dermal LD50 > 5000 mg/kg in rats (slight toxicity) Inhalation (4hr) LC50 > 2.7 mg/L in rats (very low toxicity)

## ECOLOGICAL INFORMATION: -

### **Fish:**

96 hour LC50 – Rainbow trout: 0.65 mg/L, 96 hour LC50 – Bluegill sunfish: 0.90 mg/L 48 hour LC50 – Daphnia magna: 0.60 mg/L.

**Algae:** EC50 (120hr) > 0.11mg/L.

**Aquatic photolysis:** 3.8 days (pH 5.0) (9.1A) Very toxic to aquatic organisms. Avoid contamination of any water supply with chemical or empty container.

DT50 in tamar silt loam soil = 17days. Kow log P = 4.65.

**Worms** LC50 : (14 days) > 1,250mg/kg

Acute Oral LD50 – Bobwhite Quail 98 mg/kg, Mallard duck > 2,250mg/kg

Acute Dietary LC50 – Bobwhite Quail: 808 ppm Acute Dietary LC50 – Mallard Duck: > 5650 ppm (9.3B)

**Bee :** LD50 (48hr) 0.18µg/bee (contact), oral LD50 (48hr) > 1,000ppm/bee. (9.4A)





## DISPOSAL CONSIDERATIONS:

Triple rinse container and add rinsate to spray tank, burn, if circumstances, especially wind direction permit, otherwise dispose of at an approved landfill. Dispose of this product only by using in accordance with label direction. Dispose of solid contaminated material / or contaminated soil in an approved landfill. Disposal must be in accordance with applicable local regulation.

