

ADDITION 150 SC

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: ADDITION 150 SC
Other identifier: Indoxacarb 150 SC
Recommended use: Insecticide
Restrictions on use: Agriculture

Supplier: Universal Crop Protection (Pty) Ltd.
Co. Reg. No.: 1983/008184/07
PO Box 801,
Kempton Park, 1620, South Africa
Telephone: (011) 396 2233
Fax: (011) 396 4666
Website: www.villacrop.co.za

Emergency telephone numbers:

24 Hr Transport / Spill emergency no:

(Hazcall24) +27 86 044 4411
(Client: Villa Crop Protection)
Griffon Poison Information Centre +27 82 446 8946
(Client: Villa Crop Protection)

Poisoning Emergency telephone numbers:

Griffon Poison Information Centre +27 82 446 8946
Poisons Information Centre +27 861 555 777

2. HAZARDS IDENTIFICATION

UN GHS, Regulation EC 1272/2008 [EU-GHS/CLP] EU & SANS 10234:2008		
Hazard classes	Hazard categories	H-statements
Health		
Oral	Acute Toxicity 4	H302
Dermal	Skin Sensitisation 1B	H317
Inhalation	Acute Toxicity 4	H332
Specific Target Organ Toxicity - Repeated Exposure	STOT RE 1	H372
Environment		
Aquatic acute	Aquatic acute 2	H401
Aquatic chronic	Aquatic chronic 2	H411

The most important adverse effects:

Physiochemical effects: None known.

Human health effects:

Harmful if swallowed or inhaled.

Causes damage to organs (blood, nervous system and heart) through prolonged or repeated exposure.

Label elements:



Signal word: Danger.

Hazard statements:

H302: Harmful if swallowed.
H317: May cause an allergic skin reaction.
H332: Harmful if inhaled.
H372: Causes damage to organs (blood, nervous system and heart) through prolonged or repeated exposure.
H401: Toxic to aquatic life.
H411: Toxic to aquatic life with long lasting effects.

Precautionary statements:

P260: Do not breathe mists, vapours and spray.
P264: Wash hands and face thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P271: Use only outdoors or in a well-ventilated area.
P272: Contaminated work clothing should not be allowed out of the workplace.
P273: Avoid release to the environment.
P280: Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.
P301+P304+P317: IF SWALLOWED OR INHALED: Get medical help.
P302+P352: IF ON SKIN: Wash with plenty of water and non-abrasive soap.
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P319: Get medical help if you feel unwell.
P330: Rinse mouth.
P333+P317: If skin irritation or rash occurs: Get medical help.
P501: Dispose of content/container to suitable landfill in accordance with local regulations.

Special labelling of certain mixtures:

None known.

Other hazards:

None known.

Toxicity:

Classification according to GHS: Category 4

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture.

Composition:

Chemical Name	CAS	Conc. (m/v %)	Classification EC 1272/2008
Indoxacarb	173584-44-6	15 %	Acute Toxicity 3 (H301) Skin

ADDITION 150 SC

SAFETY DATA SHEET

			Sensitisation 1B (H317) Acute Toxicity 4 (H332) STOT RE 1 (H372) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
Sodium dodecyl sulphate	151-21-3	<10 %	Acute Toxicity 4 (H302) Skin Irritation 2 (H315) Eye Damage 1 (H318) Aquatic Chronic 3 (H412)

4. FIRST AID MEASURES

Remove the victim from the area of exposure. Wash off remaining material with plenty of water. In the event of any complaints or symptoms, avoid further exposure and if symptoms persist, consult a doctor.

Inhalation: If vapours or mists have been inhaled, move victim to fresh air and remove source of contamination if safe to do so. The patient should be kept under observation. **Obtain medical attention.**

Skin: Remove contaminated clothing and shoes. Gently wipe off excess chemical. Wash skin gently and thoroughly with water and non-abrasive soap. **Obtain medical attention if irritation occurs.**

Eyes: Flush eyes with clean water for at least 15 – 20 minutes. Lift eyelids to facilitate irrigation. If present, remove contact lenses after 5 minutes and continue rinsing. Obtain medical attention if irritation persists.

Ingestion: Seek medical attention or call a poison control centre for treatment advice. Do not induce vomiting unless instructed to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person. If the person is alert, rinse mouth thoroughly with water.

Anticipated acute effects:

Harmful if swallowed or inhaled.

May cause an allergic skin reaction.

Anticipated delayed effects:

Causes damage to organs (blood, nervous system and heart) through prolonged or repeated exposure.

Most important symptoms/effects: In the case where **Indoxacarb** is ingested methemoglobinemia may occur. Can cause mild skin sensitisation with allergic rashes.

Advice to physician: There is no specific antidote available. Treat symptomatically and supportively.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Use carbon dioxide or dry chemical for small fires and water fog or foam for large fires.

Unsuitable Extinguishing Media: High volume water jet. Use a water jet only to cool heated containers.

Specific hazards: In case of fire and/or explosion, do not breathe fumes.

Special Fire Fighting Procedures: Remove spectators from surrounding area. Isolate the fire area and evacuate all personnel downwind of the fire. Fight fire from maximum distance and use unmanned hose holder or monitor nozzles. Remain upwind of fire. Avoid inhaling hazardous vapours and fumes from burning materials. Remove container from fire area if possible and without risk. Do not use high volume water jet, due to contamination risk. Do not scatter the burning material. Water can be used to cool unaffected containers but must be contained for later disposal. Contain fire control agents for later disposal. Avoid pollution of waterways by run-off from the site.

Personal protective equipment: Wear NIOSH/MSHA approved self-contained breathing apparatus and full bunker gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid contact with skin. Do not breathe mists, vapours and spray. Ventilate area of spill or leak, especially in contained areas.

Protective equipment: Refer to Section 8 for personal protective equipment to be worn during containment and clean-up of a spill involving this product.

Emergency procedures: Alert firefighting personnel, evacuate unprotected personnel and animals.

Environmental Precautions: Prevent spilled product from entering sewers, waterways or ground water. This product is classified to be toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment. Any spillages or uncontrolled discharges into water courses should be reported immediately to the police and the Department of Water/Environmental Affairs.

Methods and Materials for Containment: Contain spilled product by diking area with sand, earth or silica gel.

Methods and Materials for Clean-up: Cover contained spill with an inert absorbent material such as sand, vermiculite, earth or other appropriate material. Vacuum, scoop, or sweep up material and place the material into a clean, dry, sealable container. Label containers with the contents and dispose of according to local regulations. Do not place spilled material back in original container. Do not re-use spilled material. Collect washings and add to the drums already collected. Do not flush spilled material or washings into drains or waterways. To decontaminate the spill area, tools and equipment, wash with water and

ADDITION 150 SC

suitable detergent. See section 13 for disposal considerations.

7. HANDLING AND STORAGE

Handling:

Precautions for safe handling: Harmful if swallowed. Avoid contact with skin. Do not breathe mists, vapours and spray. Ensure adequate ventilation during handling and use. Do not handle broken containers without protective equipment. Immediately clean up spills that occur during handling. Keep containers tightly closed when not in use. In the case of contact with the product, refer to First Aid Measures – Section 4.

General occupational hygiene: Practice good hygiene when using this material. Wash hands before eating, drinking, chewing gum, smoking, using the toilet or applying cosmetics. Worker should shower at the end of each workday. Launder all clothing before it is re-used.

Storage:

Conditions for safe storage: Keep under lock and key and out of reach of unauthorised persons, children and animals. Store in its original, labelled container, tightly closed in an isolated, dry, cool and well-ventilated area. Avoid excess heat. Not to be stored next to foodstuffs, feed and water supplies. Avoid cross contamination with other pesticides and fertilisers.

Incompatible substances and mixtures: Refer to product label.

Packaging material: Plastic containers.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Permissible concentration: No occupational exposure limits has been determined for the significant ingredients in this product.

Engineering Controls:

It is essential to provide adequate ventilation. The measures appropriate for a particular worksite depend on how this material is used and on the extent of exposure. Local Exhaust: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs or other specified exposure limits. Local exhaust ventilation is preferred. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire, and other applicable regulations.

Personal Protective Equipment:

Respiratory Protection: For most well-ventilated conditions, no respiratory protection should be needed. If used in a poorly ventilated area (airborne concentrations exceed exposure limits), use a NIOSH approved, air-purifying respirator with cartridges / canisters approved for organic vapours.

SAFETY DATA SHEET

Hand Protection: Employee must wear appropriate chemically resistant gloves e.g., nitrile rubber gloves to prevent contact with this mixture.

Eye Protection: This product is not likely to cause eye irritation, but as a general rule it is recommended to wear a face shield when handling pesticides. This includes when handling the concentrate and when applying the product. The use of safety goggles is recommended if a face shield is not used.

Skin and Body Protection: Employees must wear appropriate protective clothing, boots, hat and equipment to prevent repeated or prolonged skin contact with this substance.

Emergency eyewash: Where there is any possibility that an employee's eyes may be exposed to this mixture; the employer should provide an eyewash fountain or appropriate alternative within the immediate work area for emergency use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Off-white liquid.

Odour: Faint, unpleasant.

pH (1% aqueous dilution): 4.5 - 8

Melting point: Not available.

Freezing Point: Not available.

Boiling Point: Not available.

Flash Point: Not flammable.

Flammability: Not flammable.

Upper/lower explosion limits: Not explosive, thermally stable.

Vapour Pressure (mm Hg): Not available.

Relative Vapour Density: Not available.

Relative Density: 1.039 g/ml at 21 °C

Solubility: Disperses in water.

n-octanol/water partition coefficient: Not available.

Auto-ignition temperature: Not available.

Decomposition temperature: Not available.

Viscosity: Not available.

10. STABILITY AND REACTIVITY

Chemical Stability: The product is stable for 2 years at ambient temperature and pressure, under normal storage and handling conditions. Avoid storage under extreme temperatures and conditions. Store below 50°C, preferably below 30°C, and not for prolonged periods in direct sunlight.

Reactivity: None known.

Possibility of Hazardous Reactions: None known.

Conditions to Avoid: Extreme heat or exposure to flames.

Incompatible Materials: Incompatible with alkaline pesticides.

Hazardous Decomposition Products: Nitride, chloride, carbon dioxide etc.

ADDITION 150 SC

SAFETY DATA SHEET

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

Based on experimental data.

Oral LD₅₀ (24 h) rat 750 mg/kg.

Dermal LD₅₀ (24 h) rat >5000 mg/kg.

Inhalation LC₅₀ (4 h) rat >3.0 mg/ℓ.

Skin Irritation/Corrosion: Not classified as a skin irritant in rabbits.

Eye Damage/Irritation: Not classified as an eye irritant in rabbits.

Skin Sensitization: May cause an allergic skin reaction.

Respiratory Sensitization: Not classified.

Reproductive cell mutagenicity: Not classified.

Carcinogenicity: Not classified.

Reproductive toxicity: Not classified.

Specific target organ toxicity – single exposure: Not classified.

Specific target organ toxicity – repeated exposure: Causes damage to organs (blood, nervous system and heart) through prolonged or repeated exposure.

Aspiration hazard: Not classified.

Chronic Effects: Not available.

POTENTIAL ADVERSE EFFECTS:

Inhalation: Harmful if inhaled.

Skin contact: Non-irritating to skin. Can cause mild skin sensitization.

Eye contact: Non-irritating to eyes.

Ingestion: Harmful if swallowed.

12. ECOLOGICAL INFORMATION

This product is toxic to aquatic organisms and causes long-term adverse effects in the aquatic environment.

ECOTOXICITY DATA: Active ingredient

Fish:

DPX-KN128 (S) - Rainbow trout > 0.17 mg/ℓ
LC₅₀ (96 h) (maximum water solubility).

DPX-MP062 (3:1 (S)-:(R)-) Bluegill sunfish 0.9 mg/ℓ
Rainbow trout 0.65 mg/ℓ

Daphnia:

DPX-KN128 (S)- > 0.17 mg/ℓ
EC₅₀ (48 h) (maximum water solubility).

DPX-MP062 (3:1 (S)-:(R)-) EC₅₀ (48 h) 0.60 mg/ℓ

Algae:

DPX-KN128 (S)- *P. subcapitata* >0.0674 mg/ℓ
EC₅₀ (96 h)

DPX-MP062 (3:1 (S)-:(R)-) *P. subcapitata*

EC₅₀ (96 h) > 0.11 mg/ℓ

Birds:

DPX-MP062 (3:1 (S)-:(R)-)
Acute oral LD₅₀ Bobwhite quail 98 mg/kg.
Dietary LC₅₀ (5 d) Bobwhite quail 808 mg/kg.

Bees:

DPX-KN128 (S) -
LD₅₀ Oral (48 h) 0.232 µg/bee.
LD₅₀ Contact (48 h) 0.0682 µg/bee.

DPX-MP062 (3:1 (S)-:(R)-)
LD₅₀ Oral (48 h) 0.26 µg/bee.
LD₅₀ Contact (48 h) 0.094 µg/bee.

Worms:

DPX-MP062 (3:1 (S)-:(R)-)
LC₅₀ (14 d) > 1250 mg/kg.

ENVIRONMENTAL EFFECTS:

Plants: Not determined.

Persistence and degradability: DT₅₀ 17 d in tams silt loam soil. Indoxacarb is considered to be moderately persistent; aerobic DT₅₀ 3-23 d, anaerobic DT₅₀ 186 d. DT₅₀ for aquatic photolysis 3.0 d (pH 5.0).

Bio-accumulative Potential: Metabolism in rats after oral dosing was studied using both DPX-JW062 and DPX-MP062. Most of the dose was excreted within 96 hours. Extensive metabolism to numerous minor metabolites occurs. In urine, metabolites were cleaved products (indane or trifluoromethoxyphenyl ring products), whilst, in faeces, major metabolites retained both these moieties. Major metabolic reactions included hydroxylation of the indane ring, hydrolysis of the carboxymethyl group from the amino nitrogen, and opening of the oxadiazine ring, which gave rise to cleaved products.

Mobility in soil: It is considered to be immobile; K_{oc} 3300-9600 ml/g. K_d 26-95 l/kg (EU Rev. Rep.).

Other adverse effects: Indoxacarb 150 SC had little or no effect on other beneficial species.

13. DISPOSAL CONSIDERATIONS

Waste: Open dumping or burning of this pesticide is prohibited. Waste resulting from the use of this product cannot be reused or re-processed. Never pour untreated waste or surplus product into public sewers or where there is any danger of run-off or seepage into water systems. Do not contaminate rivers, dams or any other water sources with the product or used containers. Comply with local legislation applying to waste disposal. The product may be taken to a registered waste disposal site or incineration plant.

Container: Emptied containers retain vapour and product residues. Do not re-use the empty container for any other purpose. Invert the empty container over the spray or

ADDITION 150 SC

SAFETY DATA SHEET

mixing tank and drain for at least 30 seconds after the flow has slowed down to dripping. Thereafter rinse the empty container three times in succession with one quarter of the container volume fresh water and decant the rinsate into the spray or mixing tank. Puncture the triple rinsed container and dispose of via an approved collector or recycler (www.croplife.co.za). Do not bury, burn or donate the container to any other parties that may use it as a container for food or beverages. Observe all labelled safeguards until container is destroyed.

14. TRANSPORT INFORMATION

UN Number: 3082
Road Transport ADR/IRD:
 Class: 9
 Packaging group: III
 UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (Indoxacarb 150 g/l)

Maritime Transport IMDG/IMO:
 Class: 9
 Packaging group: III
 UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (Indoxacarb 150 g/l)

Marine Pollutant (Y/N): Yes, Considered a marine pollutant.

Air transport IATA/ICAO:
 Class: 9
 Packaging group: III
 UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (Indoxacarb 150 g/l)

Special / Environmental Precautions: Wedge drums tightly to avoid movement.

Transport in bulk: Refer to MARPOL 73/78, Annex II and the IBC code.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation for the mixture:
 OSHA 1993 Regulations for Hazardous Chemical Substances.
Relevant information regarding restrictions: None.
EU regulation: Regulation EC1272/2008 (EU-GHS/CLP)
Other national regulations: None.
Chemical Safety Assessment carried out? No.

16. OTHER INFORMATION

Packaging: Packed in 50, 100, 200, 250 and 500 ml and 1, 5, 10, 20, 25 and 50 litres plastic containers and labelled according to the South African regulations and guidelines.

Other hazard statements, abbreviations and explanations:

H301: Toxic if swallowed.
H315: Causes skin irritation.
H318: Causes serious eye damage.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.
H412: Harmful to aquatic life with long-lasting effects.
IATA: International Air Transport Association.
IBC: International Bulk Chemical.
ICAO: International Civil Aviation Organization.
IMDG: International Maritime Dangerous Goods
IMO: International Maritime Organization.
LD₅₀ value: The median lethal dose or the amount of a toxic agent that is sufficient to kill 50 percent of a population within a certain period of time.
Disclaimer: The information on this sheet is not a specification; it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage and use of the product. It is not applicable to unusual or non-standard uses of the product nor where instructions or recommendations are not followed. All information is given in good faith but without guarantee in respect of accuracy, and no responsibility is accepted for errors and omissions or the consequence thereof.

END OF DOCUMENT

Compiled: December 2016
Reviewed: September 2023
Revision no.: (6)
Next revision date: September 2028

For detailed information on revisions, contact the Registration holder.