

SAFETY DATA SHEET

Issue No: 1.2	Revision date: 14 April 2023 First print date: 25 January 2019
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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name:	INCIDE 300 WG
Other means of identification:	Indoxacarb 300 g/kg
Recommended Use:	Agricultural Insecticide
Supplier:	ICA International Chemicals (Pty) Ltd
Address:	28 Planken Street Plankenbrug Industrial STELLENBOSCH · 7600 · SOUTH AFRICA
Telephone No:	+27-21 886 9812
Fax No:	+27-21 886 8209
Emergency Tel No:	Griffon Poison Information Centre: +27-82 446 8946 Human Poison Helpline: +27-861 555 777

2. HAZARD IDENTIFICATION

GHS Classification of product	Acute Oral Toxicity – Category 4 Acute Inhalation Toxicity – Category 4 Skin Irritation – Category 2 Eye Damage – Category 1 Skin Sensitization – Category 1B Single Target Organ Toxicity – Repeated Exposure – Category 1 Aquatic Acute – Category 1 Aquatic Chronic – Category 1
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Label Elements
Classification and Labelling of Chemicals (GHS)
Rev 9, 2021; Regulation EC No. 1272/2008 [EU-GHS/CLP]



Signal word	DANGER
Hazard Statements	H302 – Harmful if swallowed H315 – Causes skin irritation H317 – May cause an allergic skin reaction H318 – Cause serious eye damage H332 – Harmful if inhaled H372 – Causes damage to organs (blood, nervous system, heart) H410 – Very toxic to aquatic life with long lasting effects
General Precautionary Statements	P101: If medical advice is needed, have product container or label at hand. P102: Keep out of reach of children. P103: Read carefully and follow all instructions.
Prevention Precautionary Statements	P203: Obtain, read, and follow all safety instructions before use. P260: Do not breathe dust/fumes/mist/spray. P264 + P265: Wash hands and exposed skin thoroughly after handling. Do not touch eyes. P270: Do not eat, drink or smoke when using this product.

Response Precautionary Statements

- 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 protective gloves/protective clothing/eye and face protection.
- P301 + P330 + P317: IF SWALLOWED: Rinse mouth and get medical help.
- P302 + P352: IF ON SKIN: Wash with plenty of clean water and non-abrasive soap.
- P333 + P317: If skin irritation or rash occurs: Get medical help.
- P304 + P340 + P317: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical help.
- P305 + P354 + P338 + P317: IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical help.
- P319: Get medical help if you feel unwell.
- P321: For specific treatment, see first aid measures in section 4.
- P362 + P364: Take off contaminated clothing and wash it before reuse.
- P391: Collect spillage.
- P405: Store locked up.
- P501: Dispose of contents and container in accordance with national regulations.

Storage Precautionary Statements

Disposal Precautionary Statements

3. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT(S)	CAS NO:	CONCENTRATION % (w/w)	CLASSIFICATION EC1272/2008
Indoxacarb	173584-44-6	30	Acute Oral Toxicity Category 3, H301; Acute Inhalation Toxicity Category 4, H332; Skin Sensitization Category 1B, H317; STOT RE Category 1, H372; Aquatic Acute Category 1, H400; Aquatic Chronic Category 1, H410
Sodium naphthalene-2-sulphonate	532-02-5	< 10	Skin Irritation Category 2, H315; Eye Irritation Category 2, H319
Sodium dodecyl sulphate	151-21-3	< 10	Acute Oral Toxicity Category 4, H302; Acute Inhalation Toxicity Category 4, H332; Skin Irritation Category 2, H315; Eye Damage Category 1, H318; Aquatic Chronic Category 3, H412

There are no additional ingredients present which, within the current knowledge of the provider of this SDS, and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. See section 16 for legend of additional H-statements not mentioned in section 2.

4. FIRST AID MEASURES

Show this SAFETY DATA SHEET to a doctor.

INHALATION:

- Remove the victim from immediate source of exposure. Move victim to fresh air, if it can be done safely, and keep comfortable.
- If victim’s breathing has stopped, perform artificial respiration.
- DO NOT perform mouth-to-mouth resuscitation if victim ingested or inhaled the substance; wash face and mouth before giving artificial respiration. Use a pocket mask equipped with a one-way valve or other proper respiratory medical device.
- Administer oxygen if victim’s breathing is difficult or irregular.
- Get medical help if you feel unwell.

SKIN:

- Remove and isolate contaminated clothing, shoes, and leather goods immediately and take a shower.
- Rinse affected areas IMMEDIATELY with non-abrasive soap or mild detergent and large amounts of running water. Wash contaminated clothing before reuse. Get medical help if irritation develops and persists.

EYES:	<ul style="list-style-type: none"> • Rinse eyes IMMEDIATELY with clean running water for at least 15 minutes, while holding eyelids apart. Remove contact lenses after 5 minutes if present and easy to do. Continue rinsing while holding eyelids apart. • Seek medical help if irritation continues.
INGESTION:	<ul style="list-style-type: none"> • If swallowed, get emergency medical help immediately. DO NOT induce vomiting, unless instructed to do so by poison control center or doctor. • Have person sip a glass of water if able to swallow. • Never give anything by mouth to an unconscious person. • If vomiting does occur, keep on giving fluids.
NOTE TO PHYSICIAN:	<ul style="list-style-type: none"> • There is no specific antidote. All treatments should be based on observed signs and symptoms of distress in the patient.
POTENTIAL HEALTH EFFECTS, ACUTE AND DELAYED	<ul style="list-style-type: none"> • Effects of exposure (inhalation, ingestion, or skin contact) to substance may be delayed.

5. FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:	<p>Small fires: Dry chemical powder, carbon dioxide (CO₂), water spray or alcohol-resistant foam</p> <p>Large fires: Water spray, fog, or alcohol-resistant foam</p>
FIRE INVOLVING TANKS:	Cool containers with flooding quantities of water until well after fire is out. DO NOT get water inside containers. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. Always stay away from tanks engulfed in fire.
UNSUITABLE EXTINGUISHING MEDIA:	DO NOT use high volume water jet, due to contamination risk.
SPECIFIC EXTINGUISHING METHODS:	Fight fire from maximum distance. For massive fire, use unmanned hose holder or monitor nozzles. Collect contaminated extinguishing water separately; do not allow contaminated water to reach the sewage or effluent systems.
SPECIFIC HAZARDS ARISING FROM COMBUSTION PRODUCTS:	In case of fire, the formation of Carbon monoxide (CO), Nitrogen oxides (NO _x), or Hydrogen chloride (HCl) can be expected.
PRECAUTIONS FOR FIRE FIGHTERS:	Fire fighters should wear full protective gear including self-contained breathing apparatus (SCBA). Fight fire from safe distance. Contact with the fumes and vapours should be avoided by staying upwind. Clean all clothing before reuse. Severely contaminated clothing cannot be adequately decontaminated and must be disposed as a hazardous waste. Shower with soap and water after contact with chemical product.
FURTHER INFORMATION:	<ul style="list-style-type: none"> • If possible, safely move undamaged intact containers away from the area around the fire. • Keep containers cool by spraying with water if exposed to fire. • Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. • In case of fire and/or explosion do not breathe fumes.

6. ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK:

PERSONAL PRECAUTIONS:	Avoid contact with skin and eyes. Do not touch or walk through spilled material. Do not inhale dust.
PROTECTIVE EQUIPMENT:	Wear personal protective clothing and equipment (see section 8).
EMERGENCY PROCEDURES:	<p>Keep people and animals away. Eliminate all ignition sources (no smoking, flares, sparks, or flames) from immediate area. All equipment used when handling the product must be grounded.</p> <p>Use water spray to reduce vapours or divert vapour cloud drift.</p>
ENVIRONMENTAL PRECAUTIONS:	PREVENT spilled material from entering waterway and sewer systems, basements, and confined areas. If the product contaminates rivers and lakes or waterways immediately inform respective authorities.
METHODS AND MATERIALS FOR CONTAINMENT:	Contain and absorb liquid spills with inert material, remove by scoop or vacuum. Use approved industrial vacuum cleaner for removal and place in clearly marked waste containers. Avoid dust formation.
METHODS AND MATERIALS FOR CLEANING UP:	Contain the spill immediately. Sweep up (prevent dust by wet brushing) or vacuum material, scrub area with hard water detergent.

Pick up wash liquid with additional absorbent material, (e.g., sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Use clean, non-sparking tools to collect absorbed material.

NA

SECONDARY DISASTER PREVENTION MEASURES:

7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:

- Suitable Technical Measures
- Suitable Precautions
- Prevention of contact

- Always store insecticides in their original containers, which include the label listing ingredients, directions for use, and first aid steps in case of accidental poisoning.
- Never transfer insecticides to soft drink bottles or other containers. Children or others may mistake them for something to eat or drink.
- Wear suitable protective clothing which includes chemical-resistant overalls, footwear, socks, dust mask, eye shields and gloves.
- Wash hands before eating, drinking, chewing gum, smoking, or using the toilet. Wash hands, arms, and face after application. Wash gloves and contaminated protective clothing daily before reuse.
- Avoid dust formation in confined areas, dust may form explosive mixture in the air.

CONDITIONS FOR SAFE STORAGE:

- Suitable Technical Measures
- Separation measures from incompatible substances and mixtures

- Keep out of reach of unauthorized persons, children, and animals. Always store insecticides in their original containers, which include the label listing ingredients, in a cool, dry, and well-ventilated area out of direct sunlight.
- Segregate from foods and animal feeds.
- DO NOT reuse the container for any other purpose.

PACKAGING MATERIAL

HDPE Fluorinated Containers

FIRE PRECAUTIONS:

Not applicable

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

ADI – Acceptable Daily Intake

Indoxacarb – 0.005 mg kg⁻¹ bw day⁻¹

ARfD – Acute Reference Dose

Indoxacarb – 0.005 mg kg⁻¹ bw day⁻¹

AOEL – Accepted Operator Exposure Level

Indoxacarb – 0.003 mg kg⁻¹ bw day⁻¹

NATIONAL EXPOSURE STANDARDS:

None allocated

BIOLOGICAL LIMIT VALUES:

None allocated

ENGINEERING CONTROLS:

Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated. If airborne mist/vapours are generated use local exhaust ventilation controls. Facilities should be equipped with an eyewash station and a safety shower. Where necessary, seek additional occupational hygiene advice.

PERSONAL PROTECTIVE EQUIPMENT:

Respiratory Protection: Where exposure through inhalation may occur when handling and/or when preparing the spray mixture, wear a face mask. If the product is used in confined spaces a respirator suitable for protection from dusts and mists of pesticides is adequate.

Hand Protection: Wear chemical-resistant gloves made of any waterproof material such as nitrile rubber. Glove thickness: 0.5 mm

Eye Protection: The use of safety goggles (full-face shield) is recommended.

Skin and Body Protection: Wear suitable protective clothing which includes chemical-resistant overalls, footwear, socks, dust mask, eye shields and gloves. Remove and wash contaminated protective clothing daily.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:

Solid

COLOUR

Off-white

ODOUR:

Slight/Mild Chemical Odour

MELTING POINT / FREEZING POINT °C:

88.1 °C

BOILING POINT:

Decompose before boiling

DECOMPOSITION TEMPERATURE (a.i):

208 °C

FLAMMABILITY:	Not available
EXPLOSIVE LIMITS:	INCIDE 300 WG is not considered an explosive
FLASH POINT:	Not available
AUTO-IGNITION TEMPERATURE:	Not available
pH (1% IN WATER):	6.0 – 9.0 (CIPAC F MT 75.3 – 1% solution)
KINEMATIC VISCOSITY:	Not available
$\text{Kinematic viscosity} = \frac{\text{Dynamic viscosity (mPa/s)}}{\text{Density (g/cm}^3\text{)}}$	
VISCOSITY:	Not available
DENSITY / RELATIVE DENSITY:	1.44 g/mℓ
SOLUBILITY - WATER (a.i.):	0.2 mg/ℓ (pH 7) 20 °C
N-OCTANOL / WATER PARTITION COEFFICIENT (a.i.):	log K_{ow} = 4.65 at 20 °C
VAPOUR PRESSURE (a.i.):	9.8 x 10 ⁻⁰⁶ mPa at 20 °C
RELATIVE VAPOUR DENSITY:	Not available

10. STABILITY AND REACTIVITY

REACTIVITY:	Not applicable
CHEMICAL STABILITY:	Stable under normal use and storage conditions.
HAZARDOUS REACTION:	Under severe dusting conditions, this material may form explosive mixtures in the air.
CONDITIONS TO AVOID: (e.g. – heat, pressure, static discharge, shock, or vibration)	Avoid excessive heat and freezing temperatures.
INCOMPATIBLE MATERIALS:	Strong acids, Strong bases, and Strong oxidizing agents.
HAZARDOUS DECOMPOSITION PRODUCTS:	When heated to decomposition, irritant or dangerous fumes/vapours may be emitted. See section 5.

11. TOXICOLOGICAL INFORMATION

	ANIMAL ACUTE TOXICITY DATA (ATE)	
ORAL:	LD ₅₀ (rat) = 1565.39 mg/kg bw	Category 4
DERMAL:	LD ₅₀ (rat)	Not Classified
INHALATION:	LC ₅₀ (4h) rat = 3.63 mg/ℓ	Category 4
SKIN IRRITATION / CORROSION:	≥ 10 %	Category 2
SERIOUS EYE IRRITATION / DAMAGE:	≥ 3.0 %	Category 1
SKIN SENSITIZATION:	≥ 0.1 %	Category 1B
GERM 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:	≥ 10 %	Category 1
ASPIRATION HAZARD:		Not Classified

12. ECOLOGICAL INFORMATION

ECOTOXICITY:		
INDOXACARB	Birds: LD ₅₀ (oral)	<i>Colinus virginianus</i> (Bobwhite Quail) Acute LD ₅₀ = 73.5 mg/kg bw/day LC ₅₀ /LD ₅₀ = 340 mg/kg bw/day diet Chronic NOEL > 144 mg/kg bw/day
	Fish: LC ₅₀	<i>Oncorhynchus mykiss</i> (Rainbow trout) Acute (96h) LC ₅₀ = 0.65 mg a.i./ℓ NOEC = 0.15 mg a.i./ℓ (21-day)
	Aquatic invertebrates – <i>Daphnia</i>	<i>Daphnia magna</i> (Water flea) Acute (48h) EC ₅₀ = 0.60 mg a.i./ℓ

Aquatic plants	Chronic (21-day) NOEC = 0.075 mg a.i./ℓ <i>Lemna gibba</i>
Algae – EC ₅₀	Acute (7-day) EC ₅₀ = 0.084 mg a.i./ℓ <i>Pseudokirchneriella subspicatus</i>
Bees	Acute (120h) EC ₅₀ > 110 µg a.i./ℓ <i>Apis mellifera</i> Acute contact 48-hour LD ₅₀ = 0.08 (µg.bee ⁻¹) Acute oral 48-hour LD ₅₀ = 0.232 (µg.bee ⁻¹) Toxic to bees
Earthworms: LC ₅₀	<i>Eisenia fetida</i> Acute (14-day) LC ₅₀ > 625 mg a.i./kg d.w. soil Chronic NOEC = 29.2 mg a.i./kg d.w. soil

AQUATIC TOXICITY:	Aquatic Acute – Category 1 Aquatic Chronic – Category 1
PERSISTENCE, DEGRADABILITY AND MOBILITY:	Indoxacarb is moderately persistent to non-persistent in the soil and non-mobile. DT ₅₀ = 4.9 – 7.5 days K _{oc} = 2205 (low mobility)
BIO-ACCUMULATIVE POTENTIAL:	BCF = 77.3 ℓ/kg – Low potential
SOIL MICRO-ORGANISMS:	Carbon transformation No significant adverse/long-term effect Nitrogen transformation No significant adverse/long-term effect

13. DISPOSAL CONSIDERATIONS

On site disposal of the concentrated product is not acceptable. Ideally, the product should be used for its intended purpose. If there is a need to dispose of the product, approach local authorities.

TRIPLE RINSE THE EMPTY CONTAINER AS FOLLOWS: Containers with must be completely emptied before being disposed of. Shake all the pesticide formulation out of the container into the spray or mixing tank. 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.

14. TRANSPORT INFORMATION

UN NUMBER:	3077
UN PROPER SHIPPING NAME:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, (30 % indoxacarb)
TRANSPORT HAZARD CLASS(ES):	Class 9
PACKAGING GROUP:	III (Low danger)
GHS PICTOGRAM:	



ENVIRONMENTAL HAZARDS:	Marine Pollutant: Yes – Category 1
TRANSPORT IN BULK:	Not applicable, not to be transported in bulk.
SPECIAL PRECAUTIONS FOR USER:	Not applicable

15. REGULATORY INFORMATION

Conforms to South Africa Regulation for Hazardous Chemical Agents, 2021.

South African Registration number L10524, Act 36 of 1947.

SDS valid for five years from date of issue.

16. OTHER INFORMATION

Legend: Full text of H-Statements referred to under sections 3:

H301 – Toxic if swallowed

H319 – Cause serious eye irritation

H400 – Very toxic to aquatic life

H412 – Harmful to aquatic life with long lasting effects

Key literature references and sources of data: Occupational Health and Safety Act 1993. Regulation for Hazardous Chemical Agents, 2021. Globally Harmonized System of Classification and Labelling of Chemicals (GHS) Rev 9, 2021. UN Model Regulations Rev. 22 (2021). EU REGULATION (EC) No. 1272/2008.

This Safety Data Sheet (SDS) summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this SDS and consider the information in the context of how to prevent accidents in the normal workplace including in conjunction with other products.

The information was obtained from sources which we believe are reliable. However, the information is provided in good faith. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and for these reasons we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used for this product only.

First Edition Date: 29 January 2019

Issue: 1.2 – 14 April 2023 (Section 14: Transport Information Updated).

END of SDS