according to Regulation (EC) No.1907/2006

### **SANICHICK**



Issue No: 1.0 Revision date: 01 July 2022 First print date: 01 July 2022

#### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: SANICHICK

Other Names: Imazalil

Recommended Use: Agricultural fungicide, fumigant
Supplier: ICA International Chemicals (Pty) Ltd

Address: 28 Planken Street

Plankenbrug Industrial

STELLENBOSCH · 7600 · SOUTH AFRICA

Telephone No: +27 (0) 21 886 9812 Fax No: +27 (0) 21 886 8209

Emergency Tel No: Poisons Helpline 0861 555 777

#### 2. HAZARD IDENTIFICATION

GHS Classification of product Acute Toxicity Oral – Category 4

Acute Inhalation - Category 4

Serious Eye Damage/Irritation – Category 2A

Skin Sensitization – Category 1B Chronic Aquatic Toxicity – Category 1

**GHS Label elements** 





Signal word WARNING

H302 – Harmful if swallowed H332 – Harmful if inhaled

H317 – May cause an allergic skin reaction H319 – Cause serious eye irritation

 $\ensuremath{\mathsf{H410}}\xspace - \ensuremath{\mathsf{Very}}\xspace$  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.

 ${\tt P103: Read\ carefully\ and\ follow\ all\ instructions.}$ 

Prevention Precautionary Statements P261: Avoid breathing dust/fumes/gas/mist/vapours/spray.

 $\mbox{P264} + \mbox{P265}\colon\mbox{Wash hands}$  and face thoroughly after handling. Do not touch

eyes.

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 protective gloves/protective clothing/eye and face protection.

Response Precautionary Statements P301 + P330 + P317: IF SWALLOWED: Rinse mouth. Get medical help.

 ${\rm P302} + {\rm P362} + {\rm P364} + {\rm P352} \\ : {\rm IF\ ON\ SKIN:\ Take\ off\ contaminated\ clothing\ and} \\$ 

wash it before reuse. Wash with plenty of water and neutral soap.

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P304 + P340 + P317: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical help.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P333 + P317: If skin irritation or rash occurs: Get medical help.

P337 + P317: If eye irritation persists: Get medical help.

P370 + P378: In case of fire: Use suitable extinguishing material to

extinguish the fire. P391: Collect spillage.

**Storage Precautionary Statements** P403: Store in a well-ventilated place.

**Disposal Precautionary Statements** P501: Dispose of contents and container in accordance with national

regulations.

### **COMPOSITION/INFORMATION ON INGREDIENTS**

INGREDIENT(S)	CAS NO:	CONCENTRATION
Imazalil	35554-44-0	15%
Co-Formulants Confidential		Up to 100%

#### **FIRST AID MEASURES**

#### Show this SAFETY DATA SHEET to a doctor.

INHALA	ATION:
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SKIN:

EYES:

**INGESTION:** 

**NOTE TO PHYSICIAN:** 

- · 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.
- · 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.
- Remove and isolate contaminated clothing, shoes, and leather goods immediately and take a shower.
- · Rinse affected areas (skin) immediately with non-abrasive soap or mild detergent and large amounts of running water. Wash contaminated clothing before re-use.
- · Get medical help if irritation develops and persists.
- · 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.
- · If swallowed, 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. Get medical help.
- · There is no specific antidote. All treatment should be based on observed signs and symptoms of distress in the patient.

POTENTIAL HEALTH AFFECTS, ACUTE AND **DELAYED** 

Effects of exposure (inhalation, ingestion, or skin contact) to substance may be delayed.

# **FIRE FIGHTING MEASURES**

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SUITABLE EXTINGUISHING MEDIA: Small fires: Dry chemical powder, carbon dioxide (CO<sub>2</sub>), water spray or

alcohol-resistant foam

Large fires: Water spray (flooding), fog, or alcohol-resistant foam

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), Hydrogen sulfide,

or Phosgene (COC $\ell_2$ ) 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 re-use. 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.

HAZCHEM CODE:

**FURTHER INFORMATION:** • 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 spray or fumes.

**PROTECTIVE EQUIPMENT:** Wear personal protective clothing and equipment (see section 8).

EMERGENCY PROCEDURES: 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.

Use water spray to reduce vapours or divert vapour cloud drift.

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.

METHODS AND MATERIALS FOR CLEANING UP: Contain spillage, and then collect with non-combustible 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.

SECONDARY DISASTER PREVENTION MEASURES: NA

NA

according to Regulation (EC) No.1907/2006

### **SANICHICK**



#### 7. HANDLING AND STORAGE

#### PRECAUTIONS FOR SAFE HANDLING:

- Suitable Technical Measures
- Suitable Precautions
- Prevention of contact

- Always store pesticides in their original containers, which include the label listing ingredients, directions for use, and first aid steps in case of accidental poisoning.
- Never transfer pesticides to soft drink bottles or other containers.
   Children or others may mistake them for something to eat or drink.
- Wear suitable protective clothing which include 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 re-use.
- Keep out of reach of unauthorized persons, children, and animals.
   Always store pesticides 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 re-use the container for any other purpose.

PACKAGING MATERIAL 5 L and 20 L HDPE plastic containers using screw thread cap with ratchet

and cutter.

FIRE PRECAUTIONS:

CONDITIONS FOR SAFE STORAGE:

Separation measures from incompatible

Suitable Technical Measures

substances and mixtures

### 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**ADI – Acceptable Daily Intake** 0.025 mg kg<sup>-1</sup> bw day<sup>-1</sup> **AOEL – Accepted Operator Exposure Level** 0.05 mg kg<sup>-1</sup> bw day<sup>-1</sup>

NATIONAL EXPOSURE STANDARDS:

BIOLOGICAL LIMIT VALUES:

-

ENGENEERING CONTROLS: Cor

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 include chemical-resistant overalls, footwear, socks, dust mask, eye shields and

gloves. Remove and wash contaminated protective clothing daily.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE (colour; physical form) Light Chestnut, Homogenous Transparent liquid

ODOUR:Odourless to Slight chemicalpH (1% in water)7.3 – 7.9 (CIPAC MT 75.3)

**MELTING POINT / FREEZING POINT:** 51.5 °C

**BOILING POINT:**Decompose before boiling **FLASH POINT:**64 °C (Pensky Martins closed cup)

EXPLOSIVE LIMITS:

**VAPOUR PRESSURE:** 0.2044 X 10<sup>-3</sup> Pa at 20 °C (imazalil free base)

**VAPOUR DENSITY:** 1.348 g/ml (98.6%)

VISCOSITY: 21.4 mPa/s
DENSITY / RELATIVE DENSITY: 1.08 g/mℓ

**SOLUBILITY IN WATER (Active ingredient):** 198.4 mg/L (pH 7) 20 °C (99.9% imazalil free base)

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This SDS conforms to GHS 2021

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**n-Octanol / Water Partition Coefficient:** K<sub>ow</sub>log P = 3.79 at 20 °C (imazalil free base)

AUTO-IGNITION TEMPERATURE: -

**DECOMPOSITION TEMPERATURE:** 260 °C

10. STABILITY AND REACTIVITY

REACTIVITY:

CHEMICAL STABILITY: Stable under normal use and storage conditions.

HAZARDOUS REACTION: -

**CONDITIONS TO AVOID:** Protect from direct sunlight, open flames and heat sourced.

(e.g. - heat, pressure, static discharge, shock, or

vibration)

**INCOMPATIBLE MATERIALS:** Incompatible with strong oxidizing agents, strong acids agents and bases.

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)
 500 mg a.i. /kg bw (OECD 423)

 DERMAL:
  $LD_{50}$  (rat)
 > 2000 mg a.i. /kg bw (OECD 402)

 INHALATION:
  $LC_{50}$  (4h) rat
 > 2.802 a.i. mg/ $\ell$  (OECD 403)

SKIN IRRITATION / CORROSION:Mild skin irritantCategory 3 (OECD 404)SERIOUS EYE IRRITATION / DAMAGE:Eye irritantCategory 2A (OECD 405)RESPIRATORY OR SKIN SENSITIZATION:Positive Skin sensitizerCategory 1B (OECD 406)

GERM CELL MUTAGENICITY:Not mutagenic(OECD 474)GENOTOXICNot genotoxic(OECD 471)

**CARCINOGENICITY:** No evidence of carcinogenicity

REPRODUCTIVE TOXICITY:
SPECIFIC TARGET ORGAN TOXICITY – SINGLE

EXPOSURE:

SPECIFIC TARGET ORGAN TOXICITY - REPEATED

**EXPOSURE:** 

ASPIRATION HAZARD: -

12. ECOLOGICAL INFORMATION

**ECOTOXICITY:** 

IMAZALIL Birds: LD<sub>50</sub> (oral) Coturnix japonica (Japanese quail)

Acute  $LD_{50}$  = 577.3 mg/kg bw/day (OECD 223)

 $LC_{50}/LD_{50} > 5620$  mg/kg diet Chronic NOEL = 24.0 mg/kg bw/day

Fish: LC<sub>50</sub> Danio rerio (Zebrafish)

Acute (96h) LC<sub>50</sub> = 7.07 mg a.i./ℓ (OECD 203) Oncorhynchus mykiss (Rainbow trout)

NOEC = 0.043 mg a.i./ $\ell$  (21-day)

Aquatic invertebrates - Daphnia Daphnia similis (Water flea)

Acute (48h)  $EC_{50} = 2.88 \text{ mg a.i.}/\ell \text{ (OECD 202)}$ 

Algae - EC<sub>50</sub> / NOEC Pseudokirchneriella subcapitata

Acute (72h)  $EC_{50} = 1.65 \text{ mg a.i./} \ell$  (OECD 201)

Bees Apis mellifera

Acute contact 48-hour  $LD_{50} = 39.0$  (µg bee-1)

Acute oral 48-hour  $LD_{50} = 35.1$  (µg bee-1)

Earthworms: LC<sub>50</sub> /NOEC Eisenia fetida

Acute (14-day)  $LC_{50}$  = 671.3 mg a.i./kg d.w. soil

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(OECD 207)

PERSISTENCE, DEGRADABILITY AND Imazalil is moderately- to non-persistent in the soil and non-mobile.

**MOBILITY:**  $DT_{50} = 5.7 - 7.1 \text{ days}$ **BIO-ACCUMULATIVE POTENTIAL:** BCF = 48.7 - 63.8

SOIL MICRO-ORGANISMS: Carbon transformation (OECD 217) No significant adverse/long-term effect

Nitrogen transformation (OECD 216) 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. Invert the empty container over the spray or mixing tank and drain for at least 30 seconds until the flow has slowed down to a drip. 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 (<a href="www.croplife.co.za">www.croplife.co.za</a>). 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

### **ROAD AND RAILWAY TRANSPORT ADR/RID:**

UN NUMBER: 3082

UN PROPER SHIPPING NAME: ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S (MIXTURE contains

Imazalil)

TRANSAPORT HAZARD CLASS(ES): Class 9

PACKAGING GROUP: III (Minor danger)
ENVIRONMENTAL HAZARDS: Marine pollutant

SPECIAL PRECAUTIONS FOR USER: Very toxic to aquatic life with long lasting effect – Category 1 (Chronic)

**TRANSPORT IN BULK:** Not applicable, not to be transported in tanks.

**GHS PICTOGRAM:** 

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HAZCHEM CODE 2X

**TEL NO:** +27 (0) 21 886 9812

### 15. REGULATORY INFORMATION

NRCS Registration Number: Act5GNR529/281852/1164

SDS valid for five years from date of issue.

### 16. OTHER INFORMATION

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.

Revision Date: 2022/03/08

Version: 1.1 END of SDS