SAFETY DATA SHEET

according to Regulation (EC) No.1907/2006

SANICHICK L



Issue No: 1.0

Revision date: 01 July 2022 First print date: 01 July 2022

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name:

Other Names: **Recommended Use:** Supplier: Address:

Telephone No: Fax No: Emergency Tel No:

2. HAZARD IDENTIFICATION

GHS Classification of product

GHS Label elements

Signal word

Hazard Statements

Gene

Preve

Respo

SANICHICK-L

Imazalil & DDAC Agricultural fungicide, Fumigant ICA International Chemicals (Pty) Ltd 28 Planken Street Plankenbrug Industrial STELLENBOSCH · 7600 · SOUTH AFRICA +27 (0) 21 886 9812 +27 (0) 21 886 8209 Poisons Helpline 0861 555 777

Acute Toxicity Oral – Category 4 Acute Inhalation – Category 4 Serious Eye Damage/Irritation – Category 2A Skin Sensitization – Category 1B Acute Aquatic Toxicity – Category 2 Chronic Aquatic Toxicity - Category 1



WARNING

ard Statements	H302 + H332 – Harmful if swallowed or if inhaled		
	H317 – May cause an allergic skin reaction		
	H319 – Cause serious eye irritation		
	H401 – Toxic to aquatic life		
	H410 – Very toxic to aquatic life with long lasting effects		
eral 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.		
ention Precautionary Statements	P261: Avoid breathing dust/fumes/gas/mist/vapours/spray.		
	P264 + P265: 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.		
oonse Precautionary Statements	P301 + P330 + P317: IF SWALLOWED: Rinse mouth. Get medical help.		
	P302 + P352: IF ON SKIN: Wash with plenty of water and neutral soap.		
	P304 + P340 + P317: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical help.		

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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 skin irritation persists: Get medical help.P362 + P364: Take off contaminated clothing and wash it before reuse.P370 + P378: In case of fire: Use suitable extinguishing material to
extinguish the fire.P391: Collect spillage.Storage Precautionary StatementsDisposal Precautionary StatementsP501: Dispose of contents and container in accordance with local
regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT(S)	CAS NO:	CONCENTRATION % (w/v)	CLASSIFICATION EC1272/2008
Imazalil	35554-44-0	21.5	Acute Oral Tox. 4 H302; Acute Inhalation Tox. 4 H332; Eye Dam. 1 H318; Aquatic Acute 1 H400; Aquatic Chronic 1 H410
Guazatine acetate	115044-19-4	< 10	Acute Oral Tox. 4 H302; Acute Dermal Tox. 4 H312; Acute Inhalation Tox. 1 H330; Aquatic Acute 1 H400
N,N-Didecyl-N,N-dimethyl ammonium chloride (DDAC)	7173-51-5	4	Acute Oral Tox. 4 H302; Skin Corrosion 1B H314

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 t 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.
KIN:	 Remove and isolate contaminated clothing, shoes, and leather good immediately and take a shower.
	 Rinse affected areas (skin) immediately with non-abrasive soap or mil detergent and large amounts of running water. Wash contaminate clothing before re-use.
	 Get medical help if irritation develops and persists.
YES:	 Rinse eyes IMMEDIATELY with clean running water for at least 1 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.
NGESTION:	 If swallowed, DO NOT induce vomiting, unless instructed to do so b 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.

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	 If vomiting does occur, keep on giving fluids. Get medical help.
NOTE TO PHYSICIAN:	 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.
5. FIRE FIGHTING MEASURES	
SUITABLE EXTINGUISHING MEDIA:	Small fires: Dry chemical powder, carbon dioxide (CO ₂), 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 ℓ_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.
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 PRECALITIONS	Avoid contact with skin and eyes. Do not touch or walk through snilled

SPILL OK 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
7. HANDLING AND STORAGE	

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 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.
 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 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:	-

8.	EXPOSURE CONTROLS AND PERSONAL PROTECTION
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ADI – Acceptable Daily Intake	0.025 mg kg ⁻¹ bw day ⁻¹	
AOEL – Accepted Operator Exposure Level	0.05 mg kg ⁻¹ bw day ⁻¹	
NATIONAL EXPOSURE STANDARDS:	-	
BIOLOGICAL LIMIT VALUES:	-	
ENGENEERING 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 include 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:	Liquid
COLOUR:	Light Chestnut
ODOUR:	Odourless to Slight chemical
pH (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:	Not available
VAPOUR PRESSURE:	0.2044 X 10 ⁻³ 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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n-Octanol / Water Partition Coefficient:	Kow
AUTO-IGNITION TEMPERATURE:	Not
DECOMPOSITION TEMPERATURE:	260
POURABLILITY:	Not
DISPERSIBILITY:	Not
SUSPENSIBILITY:	Not
WET SIEVE TEST:	Not
PERSISTENT FOAM:	Not

K_{ow}log P = 3.79 at 20 °C (imazalil free base) Not available 260 °C Not available Not available Not available Not available Not available

10. STABILITY AND REACTIVITY REACTIVITY: Not applicable **CHEMICAL STABILITY:** Stable under normal use and storage conditions. **HAZARDOUS REACTION:** Not applicable 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: LD₅₀ (rat) > 1600 mg a.i. /kg bw DERMAL: LD₅₀ (rat) > 5000 mg a.i. /kg bw INHALATION: LC₅₀ (4h) rat 2.87 a.i. mg/ℓ **SKIN IRRITATION / CORROSION:** Category 3 **SERIOUS EYE IRRITATION / DAMAGE:** Category 2A **RESPIRATORY OR SKIN SENSITIZATION:** Category 1B **GERM CELL MUTAGENICITY:** Not classified GENOTOXIC Not classified CARCINOGENICITY: Not classified **REPRODUCTIVE TOXICITY:** Not classified SPECIFIC TARGET ORGAN TOXICITY - SINGLE Not classified **EXPOSURE:** SPECIFIC TARGET ORGAN TOXICITY - REPEATED Not classified EXPOSURE: **ASPIRATION HAZARD:** Not classified

12. ECOLOGICAL INFORMATION ECOTOXICITY: IMAZALIL Birds: LD₅₀ (oral) Coturnix japonica (Japanese quail) Acute $LD_{50} = 577.3 \text{ mg/kg bw/day}$ (OECD 223) LC₅₀/LD₅₀ > 5620 mg/kg diet Chronic NOEL = 24.0 mg/kg bw/day Fish: LC₅₀ Danio rerio (Zebrafish) Acute (96h) LC₅₀ = 7.07 mg a.i./ℓ (OECD 203) Oncorhynchus mykiss (Rainbow trout) NOEC = 0.043 mg a.i./ℓ (21-day) Daphnia similis (Water flea) Aquatic invertebrates - Daphnia Acute (48h) EC₅₀ = 2.88 mg a.i./ℓ (OECD 202) Algae - EC₅₀ / NOEC Pseudokirchneriella subcapitata Acute (72h) EC₅₀ = 1.65 mg a.i./ℓ (OECD 201)

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	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_{50} /NOEC	Eisenia fetida	
		Acute (14-day) LC ₅₀ = 671.3 mg a.i./kg d.w. soil	
		(OECD 207)	
GUAZATINE ACETATE	Birds: LD ₅₀ (oral)	Columba livia	
		Acute LD ₅₀ = 57.9 mg/kg bw/day	
		LC ₅₀ /LD ₅₀ > 164.4 mg/kg diet	
	Fish: LC ₅₀	Lepomis macrochirus	
		Acute (96h) LC₅₀ = 0.42 mg a.i./ℓ	
	Aquatic invertebrates - Daphnia	Daphnia magna (Water flea)	
		Acute (48h) EC₅₀ = 0.15 mg a.i./ℓ	
	Algae - EC ₅₀ / NOEC	Pseudokirchneriella subcapitata	
		Acute (72h) EC₅₀ = 1.65 mg a.i./ℓ (OECD 201)	
	Bees	Apis mellifera	
		Acute Oral LD₅₀ > 59 μg a.i./bee	
	Earthworms: LC_{50} /NOEC	Eisenia fetida	
		Acute (14-day) LC ₅₀ = 3420 mg a.i./kg d.w. soil	
DDAC	Fish: LC ₅₀	Oncorhynchus mykiss (Rainbow trout)	
		Acute (96h) LC₅₀ = 1.16 mg a.i./ℓ	
		Brachydanio rerio	
		NOEC = 0.032 mg a.i./ℓ (21-day)	
	Aquatic invertebrates - Daphnia	Daphnia magna (Water flea)	
		Acute (48h) EC₅₀ = 0.094 mg a.i./ℓ	
		Chronic (21-day) NOEC = 0.01 mg a.i./ℓ	
	Bees	Apis mellifera	
		Not toxic to bees.	
		Acute contact (product) LD₅₀ > 100 μg a.i./bee	
	Earthworms: LC_{50} /NOEC	Eisenia fetida	
		Acute (14-day) LC ₅₀ > 1000 mg a.i./kg d.w. soil	
PERSISTENCE, DEGRADABILITY AND	i. Imazalil is moderately- to non-	-persistent in the soil and non-mobile.	
MOBILITY: ii. Guazatine acetate is non-persistent in the soil and non-r		istent in the soil and non-mobile.	
	iii. Didecyldimethylammonium Chloride is non-persistent in the soil, non-mobile		
	and is readily biodegradable.		
	Imazalil : DT ₅₀ = 5.7 – 7.1 days		
	Guazatine : DT ₅₀ = 10.8 – 38.2 days		
BIO-ACCUMULATIVE POTENTIAL:	BCF = 48.7 – 63.8		
SOIL MICRO-ORGANISMS:	Carbon transformation (OECD 217)		
	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.

TRIPLE RINSE THE EMPTY CONTAINER AS FOLLOWS: Containers must be completely emptied before being disposed of. 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 (<u>www.croplife.co.za</u>). 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:

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UN NUMBER: UN PROPER SHIPPING NAME: TRANSAPORT HAZARD CLASS(ES): PACKAGING GROUP: GHS PICTOGRAM: 3082

ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S (21.5% imazalil) Class 9

III (low danger)



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

15. REGULATORY INFORMATION

This product is registered in South Africa with the National Regulator for Compulsory Specification (NRCS) for chemical disinfectants as published by Government Notice No. 1119 (Government Gazette No. 41186) of 20 October 2017. NRCS Registration Number: Act5GNR529/281852/1164 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.

H312 – Harmful in contact with skin.

H314 – Causes severe skin burns and eye damage.

H330 – Fatal if inhaled.

H351 – Suspected of causing cancer.

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. GHS classification and labelling of chemicals – SANS10234.

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: 01 July 2022 Issue: 1.0 – 01 July 2022 (update to GHS 2021, SA Regulation for Hazardous Chemical Agents, 2021) END of SDS