

Safety Data Sheet

Issue No: 3.1	Issue date: July 2020	Issued by ICA International Chemicals
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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Identification of product:	SaniWash
Other means of identification:	Didecyldimethyl Ammonium Chloride (DDAC) 12% Gluteraldehyde 6%
Recommended Use:	A broad-spectrum concentrated disinfectant and washing agent to kill micro-organisms such as fungi, bacteria and viruses.
Restrictions on use:	Not to be inhaled or for internal use.
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.:	Griffon Poison Information Centre +27 82 446 8946 Poisons Helpline 0861 555 777

2. HAZARDS IDENTIFICATION

GHS classification of Product: (liquid)	Acute Toxicity (oral) – Category 5 Acute Toxicity (dermal) – Category 5 Acute Toxicity (inhalation) – Category 2 (Product is a liquid, no vapours and mist will be generated with general handling and transport) Acute Aquatic Toxicity – Category 1 Eye Corrosion/Irritation – Category 1 Skin Irritation – Category 2
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GHS Label elements:



**DO NOT APPLY
UNDILUTED**

Signal Word:	Danger
	Corrosive (to the eye)
Hazard Statements:	H330 Fatal if (mist of undiluted product is) inhaled - corrosive to respiratory tract. Liquid form, as product naturally occur, not harmful for inhalation. Aerosols and mists not generated through normal handling. H303 May be harmful if swallowed. H313 May be harmful in contact with skin. H315 Cause skin irritation. H318 Cause serious eye damage. H317 May cause an allergic skin reaction. H411 Very toxic to aquatic life with long lasting effects.
Safety Phrases:	P101 If medical advice is needed: Have product container or label at hand. P102 Keep out of reach of children, uninformed persons and animals. P103 Read label carefully and follow all instructions. P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P233 Keep container tightly closed. P260 Do not breathe dust/mists. P264 Wash hands thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P273 Avoid release to the environment P280 Wear protective gloves/protective clothing/eye and face protection. P302 + P312 IF ON SKIN: Call a POISON CENTER/doctor if you feel unwell. P304 + P310 IF INHALED: Immediately call a POISON CENTER or doctor. P304 + P340 IF (undiluted mist): INHALED remove to fresh air and keep at rest in a position comfortable for breathing. P305 + P310 IF IN EYES: Immediately call a POISON CENTER or doctor. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312 Call a POISON CENTER or doctor if you feel unwell. P320 IF (undiluted mist): INHALED: Specific treatment is urgent – as product is corrosive to mucus membranes in respiratory tract. P391 Collect spillage. P403 + P233 Store in a well-ventilated place and keep the container tightly close with original ventilating cap. P405 Store locked up. P501 Dispose of container and contents in accordance with local and national regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENT(s)	CAS NO.:	Proportion
N,N-Didecyl-N,N-dimethyl ammonium chloride (DDAC)	7173-51-5	12%
Glutaral/1,5-Pentanedial (Gluteraldehyde)	111-30-8	6%
ADDITIVE(S)	Not Available	Fill to 100%

4. FIRST AID MEASURES

Show this MATERIAL SAFETY DATA SHEET to a doctor.

INHALATION:	If experiencing respiratory symptoms (irritation, difficulty with breathing), remove person to fresh air and keep at rest in a position comfortable for breathing. Administer oxygen if breathing is difficult. Call for medical assistance.
EYES:	Rinse eyes IMMEDIATELY with clean water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing while holding eyelids apart. Immediately seek medical assistance.
SKIN:	If on skin and irritation occur, rinse affected area immediately with plenty of water/shower. Wash contaminated clothing before re-use. Seek medical assistance if skin irritation persists.
INGESTION:	If swallowed, DO NOT induce vomiting. Rinse mouth thoroughly with water. Immediately give 3-4 glasses water. Never give anything to an unconscious person. Make every effort to prevent vomit from entering the lungs by careful placement of the patient. If vomiting does occur, keep on giving fluids. Get medical attention. Possible mucosal damage may contra-indicate the use of gastric lavage.

5. FIRE FIGHTING MEASURES:

Suitable Extinguishing Media:

SMALL FIRES:

Dry chemical, CO₂, water spray or alcohol-resistant foam.

LARGE FIRES:

Apply water in large quantities (flooding). Keep unopened containers exposed to the fire cool with spraying water on it.

Hazards from strong combustion products:

If involved in a fire, it will emit oxides of carbon, oxides of nitrogen, ammonia and hydrocarbons

Special protective equipment for fire fighters:

Fire fighters should wear full protective gear including self-contained breathing apparatus, especially in confined spaces.

Fire Fighting Procedures:

Prevent fire water from entering drains or water bodies.

6. ACCIDENTAL RELEASE MEASURES:

PERSONAL PRECAUTIONS: Use protective equipment to prevent the contamination of eyes, and clothing

PROTECTIVE EQUIPMENT:

- EYES: Wear chemical safety glasses.
- RESPIRATORY: If inhalation of vapour/mist is likely to occur, wear an approved respirator mask with mist filter, especially in case of insufficient ventilation.
- SKIN: Wear washable hat and buttoned-up cotton overalls.

EMERGENCY PROCEDURES:

- Wear protective clothing.
- Cover the drains.
- Ensure adequate ventilation.

ENVIRONMENTAL PRECAUTIONS

- PREVENT spilled concentrated product from entering drains or sewer systems. Dike and bund area with sand or earth to prevent contamination of drains or sewers.

METHODS AND MATERIALS FOR CONTAINMENT AND METHODS AND MATERIALS FOR CLEANING UP:

- Simplest method of disposal involves dilution to low concentrations in order to allow the biocide to degrade naturally (only if permitted by regulatory authorities). At levels below 10 parts per million (active), no detrimental effects on functioning waste treatment systems have been noted.

7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

- Use in well-ventilated area and AVOID inhalation of spray mist. Wear suitable respiratory equipment.
- Product is poisonous when swallowed. 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.
- Keep out of reach of children
- Wear suitable protective clothing;
- Wear suitable gloves to prevent skin irritation.
- In case of **insufficient ventilation**, wear suitable respiratory equipment.
- Wear eye/face protection to **avoid contact with eyes.**
- DO NOT keep or store for prolonged periods in direct sunlight.
- Wash hands, arms and face after use. Wash gloves and contaminated protective clothing daily.

STORAGE

- DO NOT re-use the container for any other purpose.
- Use plastic containers. Avoid metal.
- Store in the closed original container in a cool, dry and well ventilated, secure area. Do not store in direct sunlight.
- Keep away from children, animals, food, and seed.
- Dry formulations should be stored separately from liquids to avoid wetting from spills

8. EXPOSURE CONTROL / PERSONAL PROTECTION

EXPOSURE LIMITS:

None allocated.

BIOLOGICAL LIMIT VALUES:

No biological limit allocated.

ENGINEERING CONTROLS:

Provide proper ventilation to minimise exposure. If mists or vapours are generated, their concentration in the workplace air should be controlled to the lowest reasonably practicable level. Facilities should be equipped with an eyewash facility and a safety shower.

PERSONAL PROTECTIVE EQUIPMENT:

EYES: Wear chemical safety glasses with side shield or face shield.
GLOVES: Wear rubber gloves to prevent skin contact.

SKIN: Wear washable buttoned-up cotton overalls.
 RESPIRATORY: If inhalation of vapour/mist is likely to occur, wear an approved respirator mask with mist filter, especially in case of insufficient ventilation.

HYGIENE MEASURES:

After each day's use, wash contaminated clothing and safety equipment.
 After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Homogenous, clear, colourless, foaming liquid
ODOUR: Slight bitter smell. Bitter taste.
pH: 3 – 5
STABILITY: Stable at normal conditions (OECD 113)
SURFACE TENSION: 36.1 Mn/m (OECD 115)
MISCIBILITY: Standard water, acetone and ethanol at 30 °C– no solid material separation; no separation into layers.
CORROSION (METALS): Non-corrosive to metals
 Aluminium, copper, carbon steel and brass = <0.08 mm/year. (ASTM G31-72)
SOLUBILITY IN WATER: Freely soluble
SPECIFIC GRAVITY / DENSITY: ~1 kg/ℓ (0.9 - 1.03 kg/ℓ) at 20 °C (IP 365)
FLASH POINT: None (not flammable)
VOLATILITY: Not volatile
FLAMMABILITY: Not Flammable
VISCOSITY: 70,4 at 25 °C (Brookfield viscosity, speed 100, spindle 2)
FOAM PERSISTENCE: (200 ml/100 ℓ) in 100 ml emulsion: Hardwater 1 min = 104 ml; Hard water 5 min = 88 ml
COMPATABILITY: Not compatible with concentrated anionic compounds.
OXIDISING PROPERTIES: Not an oxidising substance.

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under normal conditions. Tolerant of both acidic and alkaline medium (pH 3.5 – 9)
CONDITIONS TO AVOID: Do not store at high temperatures for long periods of time. Keep containers closed when not in use.
INCOMPATIBLE MATERIALS: Avoid strong oxidising and strong reducing agents as well as anionic detergents.
HAZARDOUS DECOMPOSITION PRODUCTS: The substance decomposes on burning producing toxic fumes of nitrogen oxides and chloride.

11. TOXICOLOGICAL INFORMATION

ANIMAL ACUTE TOXICITY DATA (PRODUCT)

ORAL: LD₅₀ (rat) > 2500 mg/kg (Product)
DERMAL ATE: LD₅₀ (rabbit) > 2500 mg/kg (ATE)
INHALATION ATE: LC₅₀ rat 0.16 mg/ℓ air (ATE) – can cause irritation and damage to mucosal surface.
DERMAL IRRITATION: Prolonged skin contact can cause irritation, rash and itching.
EYE IRRITATION: Risk of damage to eyes. Exposure can lead to irritation/burning, eye pain, conjunctivitis, swelling of eye and swelling of eyelid.
SENSITISATION: Guinea pig Not a skin sensitizer
CHRONIC TOXICITY: Oral dog 1 year – no target organs effects
PHARMACOKINETICS: Dog This material does not accumulate in body tissues.
MUTAGENICITY: Non-teratogenic, non-carcinogenic, non-mutagenic

12. ECOLOGICAL INFORMATION:

ECOTOXICITY:

Diacyldimethyl Ammonium Chloride (DDAC)	Aquatic Organisms:	Fish - Acute LC ₅₀ (96hr) 1.16 mg/ℓ (<i>Oncorhynchus mykiss</i>) Fish - Chronic 21-day NOEC 0.032 mg/ℓ (<i>Brachydanio rerio</i>) Aquatic invertebrates - Acute LC50 (96hr) 0.094 mg/ℓ (<i>Daphnia magna</i>) Aquatic invertebrates - Chronic 21-day NOEC 0.01 mg/ℓ (<i>Daphnia magna</i>) Algae EC ₅₀ 0.026 mg/ℓ (<i>Selenastrum capricornutum</i>) Algae 48-hour NOAEC 0.014 mg/ℓ (<i>Selenastrum capricornutum</i>)
	Bees:	Not toxic to bees. Acute contact (product) LD ₅₀ > 100 g a.i./bee (<i>Apis mellifera</i>)
	Birds:	Not hazardous to birds. Active Dietary LC ₅₀ Oral > 5620 ppm (<i>Colinus virginianus</i> and <i>Anas platyrhynchos</i>) NOEC 1780 ppm (<i>Colinus virginianus</i>)
Gluteraldehyde	Aquatic Organisms:	Fish - Acute LC ₅₀ (96hr) > 22.6mg/ℓ (<i>Lepomis macrochirus</i>) Fish - Chronic 21-day NOEC 3.4 mg/ℓ (<i>Lepomis macrochirus</i>) Aquatic invertebrates - Acute LC ₅₀ (96hr) 22.5 mg/ℓ (<i>Daphnia magna</i>) Aquatic invertebrates - Chronic 21-day NOEC 4.2 mg/ℓ (<i>Daphnia magna</i>) Algae EC ₅₀ - 132 mg/ℓ (<i>Pseudokirchneriella subcapitata</i>)
	Bees:	Not toxic to bees. Acute contact (product) LD ₅₀ > 100 g a.i./bee (<i>Apis mellifera</i>)

Birds: Not hazardous to birds.
Active Dietary LC₅₀ Oral > 5620 ppm (*Colinus virginianus* and *Anas platyrhynchos*)

PERSISTENCE & DEGRADABILITY: DDAC is biodegradable in sewage and natural water systems.
No long-term influence on nitrogen or carbon transformation in soils.

MOBILITY: Immobile in soil. Gluteraldehyde is highly soluble in water.

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 empty container over bucket/ tank and allow draining for at least 30 seconds until flow has slowed to a drip. Triple rinse the empty container with clean water equal to a minimum of 30 % of the volume of the container. Add rinsing to the contents of the spray tank. Offer container for recycling or puncture and dispose of at authorised landfill. Do not use container for any other purpose. Empty containers and product should not be burnt.

14. TRANSPORT INFORMATION:

UN NUMBER: 3082
PROPER SHIPPING NAME: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
TRANSPORT HAZARD CLASS: Class 9
PACKING GROUP: III (Minor Danger)
ENVIROMENTAL HAZARD: Environmentally Hazardous

PACKING GROUP: Group III (minor danger)

ADR RID CLASSIFICATION: Class 9



15. REGULATORY INFORMATION:

Registration number SaniWash: Reg. No: Act29GNR529/239981/110/309

16. OTHER INFORMATION

Date of Preparation: 29 July 2020 Phone +27(0) 21886 912
 Contact: Laurika Swart & Suzel Serfontein Issue No. 3.1 Minor amendments

This information concerns only the product conforming to its specifications and limits to the uses herein stated. This sheet complements the technical sheet of use but does not replace it. The information contained on this sheet is based on knowledge of the product on date of publication. It is given in good faith.

The data does not signify any warranty with regard to the product properties. This Safety Data Sheet (SDS) summarises to our best knowledge 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.

Care for the environment is essential for our future.

Abbreviations and Acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
 RID: European Agreements Concerning the International Carriage of Dangerous Goods by Rail

This SDS is valid for three years from date of issue

END of SDS