

Sporekill®

AGRICULTURAL DISINFECTANT

I. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND SUPPLIER

Product Name: SPOREKILL® AGRICULTURAL DISINFECTANT
Other Names: None allocated
Product Code: None allocated
Recommended Use: Broad spectrum sanitation and water treatment solution for use in agriculture & horticulture
Supplier: ekko
Address: 4 Concord Crescent
Carrum Downs Vic 3201
Telephone: (03) 9788 5900
Facsimile: (03) 9775 1303
Website: www.ekko.net.au
Contact: Product Development Manager
Emergency Telephone Number: 1800 033 111
(24 hours)
SHE Pacific Pty Ltd

2. HAZARDS IDENTIFICATION

Hazard Classification: **HAZARDOUS SUBSTANCE. NON DANGEROUS GOOD.**
 Classified as hazardous according to the criteria of NOHSC.
 Classification: C Corrosive.
 Not classified as a dangerous good according to the ADG Code, 6th Edition.
 Classified as a scheduled poison S6 according to the NDPSC.

Risk Phrases: R34 Causes burns.

Safety Phrases: Not applicable

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients:	CAS Number:	Concentration (g/L):
Didecyldimethylammonium Chloride (DDAC)	7173-515	120 g/L
Other non-hazardous components	-	To 100 %

4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone 13 11 26.
 Follow the advice given. Show this Material Safety Data Sheet to a doctor.

Sporekill®

AGRICULTURAL DISINFECTANT

Ingestion:	If swallowed, DO NOT induce vomiting. Give 3 - 4 glasses of milk or water, then egg whites or gelatine solution. If vomiting does occur, give fluids again. Get medical attention to determine if vomiting or evacuation of stomach is necessary. Provide MSDS.
Inhalation:	If inhalation of mists causes irritation of the nose or throat, remove to fresh air. Get medical attention if irritation continues or if breathing difficulty develops. Provide MSDS.
Skin Contact:	Remove contaminated clothing immediately. Wash skin immediately with plenty of soap and water.
Eye Contact:	Immediately flush with plenty of water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eyes and lids with water. If irritation persists, get medical attention. Provide MSDS.
First Aid Facilities:	Ensure washing facilities, such as shower and eyewash station, are available.
Medical Attention:	No specific antidote known. Treat symptomatically. Possible mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsions may be needed.
Potential Health Effects:	Practically non-toxic. Ingestion may cause immediate burning pain in the mouth, throat and abdomen, and swelling of the larynx. Eye contact may cause severe irritation and damage. Skin contact may cause slight irritation. Not a skin sensitiser. If inhaled, can cause irritation and damage to mucosal surfaces. Occupational exposure to this material has not been reported to cause significant adverse human health effects when used as recommended.
Medical Conditions Aggravated by Overexposure:	No known conditions aggravated by overexposure.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:	Carbon dioxide (CO ₂), dry powder, foam or water
Hazards from Combustion Products:	Not flammable. Dangerous reactions with strong oxidising agents.
Precautions for Fire Fighters and Special Protective Equipment:	None required. Contain run-off to prevent entry into water or drainage systems.
Hazchem Code:	None allocated.

Sporekill®
AGRICULTURAL DISINFECTANT**6. ACCIDENTAL RELEASE MEASURES**

Emergency Procedures:	CONTAIN SPILL. Do not discharge waste liquid into streams. Avoid contact with product. Use personal protective equipment as outlined in Section 8. Do not smoke, drink or eat during clean-up procedure.
Methods and Materials for Containment and Clean Up:	Spills should be contained and absorbed with inert absorbent materials. Place contaminated absorbent in a plastic-lined metal drum and dispose of in accordance with disposal regulations. Liquid spills that soak into the ground should be dug up and disposed of with contaminated absorbent. At levels below 10 ppm (active), no detrimental effects on functioning waste treatment systems or the environment have been noted. Leaking containers should be separated from intact containers and either the container or its contents transferred to a plastic-lined drum. Dispose of leaking container in accordance with disposal regulations. Triple or preferably pressure rinse containers before disposal. Add rinsings to dip/spray tank. Do not dispose of undiluted chemicals on-site. Break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

7. HANDLING AND STORAGE

Precautions for Safe Handling:	Avoid contact with eyes and skin. Do not inhale spray mist. Use personal protective equipment as outlined in Section 8.
Conditions for Safe Storage:	Keep out of reach of children. Store in the closed, original container in a cool, dry, well-ventilated area. Do not store for prolonged periods in direct sunlight. Do not re-use the container for any purpose.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National Exposure Standards:	No emission limits allocated.
Biological Limit Values:	No biological limit allocated.
Engineering Controls:	Provide ventilation to minimise exposure. If mists are generated, their concentration in the workplace air should be controlled to the lowest reasonably practicable level.

Sporekill®

AGRICULTURAL DISINFECTANT

Personal Protective Equipment: When opening the container, preparing solution and using the prepared solution, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), elbow-length PVC gloves, goggles and disposable fume mask.

If product in eyes, wash it out immediately with water.

Wash hands after use. After each day's use, wash gloves, goggles and contaminated clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, colourless, foaming liquid

Odour: Slight bitter odour

pH: 5-8

Vapour Pressure: No data available

Vapour Density: No data available

Boiling Point: No data available

Melting Point: Not applicable

Solubility in Water: Soluble

Solubility in Solvents: No data available

Specific Gravity: 1 @ 20°C

Flash Point: 64°C

Upper and Lower Flammable (explosive) Limits: No data available

Ignition Temperature: No data available

Evaporation Rate: No data available

Viscosity: No data available

Percent Volatile: No data available

Surface Tension: No data available

Octanol/Water Partition Coefficient: No data available

Corrosiveness: Non-corrosive to metals

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions of use

Conditions to Avoid: Tolerant of both acid & alkaline medium (pH 3.5-9)

Sporekill[®]

AGRICULTURAL DISINFECTANT

Incompatible Materials:	Not compatible with concentrated anionic compounds or with strong oxidising agents
Hazardous Decomposition Products:	None known
Hazardous Reactions:	No dangerous reaction known under conditions of use

11. TOXICOLOGICAL INFORMATION

Oral Toxicity:	LD ₅₀ (rat) > 4,000 mg/kg
Dermal Toxicity:	LD ₅₀ (rabbit) > 2,000 mg/kg
Inhalation Toxicity:	Can cause irritation and damage to mucosal surfaces
Skin Irritation:	May cause slight irritation
Eye Irritation:	May cause severe irritation and damage
Sensitisation:	Not a skin sensitiser
Mutagenicity:	Non-teratogenic. Non-carcinogenic. Non-mutagenic.
Metabolism:	No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity:	<p><i>Fish:</i> Moderately toxic to aquatic organisms. Active LC₅₀ (96 hr): 1 mg/L (salmon). Active EC₅₀ (48 hr): 0.94 mg/L (<i>Daphnia magna</i>) DO NOT contaminate streams, rivers or waterways with the chemical or used containers.</p> <p><i>Bees:</i> Not toxic to bees. Product Acute Contact LD₅₀: > 100 g a.i./bee (<i>Apis mellifera</i>)</p> <p><i>Birds:</i> Not hazardous to birds. Active Dietary LC₅₀ Oral: > 5,620 ppm (bobwhite quail and mallard ducks)</p> <p><i>Earthworms:</i> No data available</p>
---------------------	--

Sporekill®
AGRICULTURAL DISINFECTANT

Persistence and Degradability: No data available

Mobility: No data available

13. DISPOSAL CONSIDERATIONS

Disposal Methods: Triple or preferably pressure rinse containers before disposal. Add rinsings to dip/spray tank. Do not dispose of undiluted chemicals on-site. If recycling, replace cap and return clean containers to recycler or designated collection point.
If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

14. TRANSPORT INFORMATION

UN Number: Not a Dangerous Good
None allocated

Proper Shipping Name: None allocated

Class and Subsidiary Risk: None allocated

Packing Group: None allocated

Special Precautions for User: None allocated

Hazchem Code: None allocated

15. REGULATORY INFORMATION

Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP): Poison Schedule Number 6

Agricultural and Veterinary Chemicals Act 1988: Registered by the APVMA under Product No. 51141

Sporekill®
AGRICULTURAL DISINFECTANT

International: Registered for use in South Africa

16. OTHER INFORMATION

Preparation Information: Replaces: 15 April 2004 version
Reason for Update: Update of Company Name and Conversion to new Australian 16 Header Format

Abbreviations and Acronyms: ADG = Australian Dangerous Goods Code, Rail & Road, 6th Edition
APVMA = Australian Pesticide and Veterinary Medicines Authority
CAS Number = Chemical Abstract Service Registry Number
EPG = Emergency Procedure Guide
IATA = International Air Transport Association
ICAO = International Civil Aviation Organization
IMDG = International Maritime Dangerous Goods Code
NDPSC = National Drugs and Poisons Scheduling Committee
NOHSC = National Occupational Health and Safety Commission
SUSDP = Standard for the Uniform Scheduling of Drugs and Poisons

Trademark Information: ® Sporekill - Registered trademark of ICA Laboratories cc

Sources for Data: ICA Laboratories cc (formulator) Material Safety Data Sheet

This information concerns only the product conforming to its specifications and limits to the uses herein stated. This MSDS complements the technical sheet of use but doesn't 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.

END OF MSDS