

## Grochem Dodine

## HAZARDOUS, DANGEROUS GOODS

### 1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

<b>Product name:</b>	Grochem Dodine
<b>Recommended use:</b>	Protectant fungicide
<b>Supplier:</b>	Grochem (AgriNova New Zealand Limited)
<b>Company No.:</b>	9429036821501
<b>Street Address:</b>	15 Sunlight Grove Porirua New Zealand
<b>Telephone:</b>	+64 4 237 0905
<b>Email:</b>	grochem@grochem.com
<b>Emergency telephone:</b>	New Zealand 0800 CHEMCALL – 24 hours (0800 243 6225)  Australia 1800 127 406 Other locations +64 4 917 9888  or The National Poisons Centre 0800 POISON (0800 764 766)

### 2. HAZARDS IDENTIFICATION

This material is hazardous according to the criteria of EPA New Zealand GHS 7.

**EPA Group Standard:** HSR000494



**Signal Word:** Warning

**Hazard Classifications:** Acute Toxicity - Oral - Category 4  
Acute Toxicity - Inhalation - Category 4  
Skin Corrosion/Irritation - Category 2  
Serious Eye Damage/Irritation - Category 2  
Specific Target Organ Toxicity following Repeated Exposure - Category 2  
Acute Hazard to the Aquatic Environment - Category 1  
Long Term Hazards to the Aquatic Environment - Category 1  
Hazardous to Terrestrial Vertebrates  
Hazardous to Terrestrial Invertebrates

**Hazard Statements:** H302 - Harmful if swallowed.  
H315 - Causes skin irritation.  
H319 - Causes serious eye irritation.  
H332 - Harmful if inhaled.  
H373 - May cause damage to organs through prolonged or repeated exposure.  
H410 - Very toxic to aquatic life with long lasting effects.  
H433 - Harmful to terrestrial vertebrates.  
H443 - Harmful to terrestrial invertebrates.

**Prevention Precautionary Statements:** P102 - Keep out of reach of children.  
P103 - Read carefully and follow all instructions.  
P260 - Do not breathe dust, fume, gas, mist, vapours or spray.

P264 - Wash hands, face and all exposed skin 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 including eye/face protection.

**Response Precautionary Statements:** P101 - If medical advice is needed, have product container or label at hand.  
 P301+P310 - IF SWALLOWED: Immediately call a POISON CENTRE/doctor.  
 P302+P352 - IF ON SKIN: Wash with plenty of water and soap.  
 P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P314 - Get medical advice/attention if you feel unwell.  
 P330 - Rinse mouth.  
 P332+P313 - If skin irritation occurs: Get medical advice/attention.  
 P337+P313 - If eye irritation persists: Get medical advice/attention.  
 P362 - Take off contaminated clothing.  
 P391 - Collect spillage.

**Storage Precautionary Statement:** Not allocated

**Disposal Precautionary Statement** P501 Dispose of contents/container in accordance with local, regional, national and international regulations.

**DANGEROUS GOOD CLASSIFICATION** Classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

**Dangerous Goods Class:** 9

### 3. COMPOSITION INFORMATION

CHEMICAL ENTITY	CAS NO	PROPORTION
Guanidine, dodecyl-, monoacetate	2439-10-3	40 % (w/w)
Ethylene glycol	107-21-1	<5 % (w/w)
Benzenesulfonic acid, dodecyl-, sodium salt	25155-30-0	<5 % (w/w)
Ingredients determined to be Non-Hazardous		Balance
		100%

### 4. FIRST AID MEASURES

**If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).**

**Inhalation:** Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. If breathing laboured and patient cyanotic (blue), ensure airways are clear and have a qualified person give oxygen through a facemask. If breathing has stopped apply artificial respiration at once. In the event of cardiac arrest, apply external cardiac massage. Seek immediate medical advice.

**Skin Contact:** If skin or hair contact occurs, immediately remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre or a Doctor; or for 15 minutes and transport to Doctor or Hospital.

**Eye contact:** If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a Doctor; or for at least 15 minutes and transport to Doctor or Hospital.

**Ingestion:** Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Immediately call Poisons Centre or Doctor.

**PPE for First Aiders:** Wear overalls, gloves, safety glasses. Available information suggests that gloves made from natural rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

**Notes to physician:** Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

<b>Hazchem Code:</b>	•3Z
<b>Suitable extinguishing media:</b>	If material is involved in a fire use alcohol resistant foam or dry agent (carbon dioxide, dry chemical powder).
<b>Specific hazards:</b>	Non-combustible material.
<b>Fire fighting further advice:</b>	Not applicable.

## 6. ACCIDENTAL RELEASE MEASURES

<b>SMALL SPILLS:</b>	Avoid eye contact and skin contact. Avoid inhalation of vapour, mist or aerosols.
<b>LARGE SPILLS</b>	Clear area of all unprotected personnel. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services.

**Dangerous Goods - Initial Emergency Response Guide No:**  
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## 7. HANDLING AND STORAGE

<b>Handling:</b>	Avoid eye contact and skin contact. Avoid inhalation of vapour, mist or aerosols.
<b>Storage:</b>	Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Store away from sources of heat and/or ignition. Keep container standing upright. Keep containers closed when not in use - check regularly for leaks.

This material is classified as a Class 9 Miscellaneous Dangerous Good as per the criteria of the "New Zealand NZS5433: Transport of Dangerous Goods on Land" and/or the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and must be stored in accordance with the relevant regulations.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>National occupational exposure limits:</b>	No value assigned for this specific material by WorkSafe New Zealand.
<b>Biological Limit Values:</b>	As per the WorkSafe New Zealand the ingredients in this material do not have a Biological Limit Allocated.
<b>Engineering Measures:</b>	Natural ventilation should be adequate under normal use conditions.
<b>Personal Protection Equipment:</b>	OVERALLS, GLOVES, SAFETY GLASSES.  Personal protective equipment (PPE) must be suitable for the nature of the work and any hazard associated with the work as identified by the risk assessment conducted.  Wear overalls, gloves, safety glasses. Available information suggests that gloves made from natural rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.
<b>Hygiene measures:</b>	Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid contact with clothing. Avoid eye contact and skin contact. Avoid inhalation of vapour, mist or aerosols. Ensure that eyewash stations and safety showers are close to the workstation location

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Form:</b>	Liquid Suspension	<b>Specific Gravity:</b>	1.02 - 1.04
<b>Colour:</b>	White	<b>pH:</b>	6.0 - 8.0
<b>Solubility:</b>	Dispersible in water		

(Typical values only - consult specification sheet)

## 10. STABILITY AND REACTIVITY

<b>Chemical stability:</b>	This material is thermally stable when stored and used as directed.
<b>Conditions to avoid:</b>	Elevated temperatures and sources of ignition.
<b>Incompatible materials:</b>	Oxidising agents.
<b>Hazardous decomposition products:</b>	Oxides of carbon and nitrogen, smoke and other toxic fumes.
<b>Hazardous reactions:</b>	No known hazardous reactions.

## 11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

### ACUTE EFFECTS

Inhalation:	Harmful if inhaled. Material may be an irritant to mucous membranes and respiratory tract.
Skin contact:	Contact with skin will result in irritation.
Ingestion:	Harmful if swallowed. Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.
Eye contact:	An eye irritant.

### ACUTE TOXICITY

Inhalation:	This material has been classified as a Category 4 Hazard. Acute toxicity estimate (based on ingredients): $10.0 < LC50 \leq 20.0$ mg/L for vapours or $1.0 < LC50 \leq 5.0$ mg/L for dust and mist.
Skin contact:	This material has been classified as not hazardous for acute dermal exposure. Acute toxicity estimate (based on ingredients): $LD50 > 2,000$ mg/Kg bw
Ingestion:	This material has been classified as a Category 4 Hazard. Acute toxicity estimate (based on ingredients): $300 < LD50 \leq 2,000$ mg/Kg bw
Corrosion/Irritancy:	Eye: this material has been classified as a Category 2 Hazard (reversible effects to eyes). Skin: this material has been classified as a Category 2 Hazard (reversible effects to skin).
Sensitisation:	Inhalation: this material has been classified as not a respiratory sensitiser. Skin: this material has been classified as not a skin sensitiser.
Aspiration hazard:	This material has been classified as not an aspiration hazard.
Specific target organ toxicity (single exposure):	This material has been classified as not a specific hazard to target organs by a single exposure.

### CHRONIC TOXICITY

Mutagenicity:	This material has been classified as non-hazardous.
Carcinogenicity:	This material has been classified as non-hazardous.
Reproductive toxicity (including via lactation):	This material has been classified as non-hazardous.
Specific target organ toxicity (repeat exposure):	This material has been classified as a Category 2 - Substances that are harmful to human target organs or systems.

## 12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

<b>Acute aquatic hazard:</b>	This material has been classified as a Category Acute 1 Hazard. Acute toxicity estimate (based on ingredients): $\leq 1$ mg/L
<b>Chronic aquatic hazard:</b>	This material has been classified as a Category Chronic 1 Hazard. Non-rapidly or rapidly degradable substance for which there are adequate chronic toxicity data available OR in the absence of chronic toxicity data, Acute toxicity estimate (based on ingredients): $< 1$ mg/L, where the substance is not rapidly degradable and/or $BCF \geq 500$ and/or $\log Kow \geq 4$ .
<b>Ecotoxicity in the soil environment:</b>	This material has been classified as non-hazardous.
<b>Ecotoxicity to terrestrial vertebrates:</b>	This material has been classified as harmful to terrestrial vertebrates.
<b>Ecotoxicity to terrestrial invertebrates:</b>	This material has been classified as harmful to terrestrial invertebrates.
<b>Ecotoxicity:</b>	No information available.
<b>Persistence and degradability:</b>	No information available.
<b>Bioaccumulative potential:</b>	No information available.
<b>Mobility:</b>	No information available.

## 13. DISPOSAL CONSIDERATIONS

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS.

If possible material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national and international Regulations.

## 14. TRANSPORT INFORMATION

### ROAD AND RAIL TRANSPORT

Classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".



<b>UN No:</b>	3082
<b>Dangerous Goods Class:</b>	9
<b>Packing Group:</b>	III
<b>Hazchem Code:</b>	•3Z
<b>Emergency Response Guide No:</b>	171
<b>Limited Quantities</b>	5 L
<b>Proper Shipping Name:</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
<b>Segregation Dangerous Goods:</b>	Not to be loaded with explosives (Class 1). Note 1: Materials that are fire risks are incompatible with oxidising agents (Class 5.1) or organic peroxides (Class 5.2). Exemptions may apply.

### MARINE TRANSPORT

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea. This material is classified as a Marine Pollutant (P) according to the International Maritime Dangerous Goods Code.



<b>UN No:</b>	3082
<b>Dangerous Goods Class:</b>	9
<b>Packing Group:</b>	III
<b>Limited Quantities:</b>	5 L
<b>Proper Shipping Name:</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

**AIR TRANSPORT**

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.



<b>UN No:</b>	3082
<b>Dangerous Goods Class:</b>	9
<b>Packing Group:</b>	III
<b>Limited Quantities:</b>	30 kg G
<b>Proper Shipping Name:</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

**15. REGULATORY INFORMATION****This material is not subject to the following international agreements:**

- Montreal Protocol (Ozone depleting substances)
- The Stockholm Convention (Persistent Organic Pollutants)
- The Rotterdam Convention (Prior Informed Consent)
- Basel Convention (Hazardous Waste)
- International Convention for the Prevention of Pollution from Ships (MARPOL)

**This material/constituent(s) is covered by the following requirements:**

NZ EPA Status: All components of this product are listed on or exempt from the New Zealand Inventory of Chemical (NZIoC).

**HSNO Approval Code:** HSR000494

**16. OTHER INFORMATION**

**Reason for issue:** 5 Yearly Revision

This information was prepared in good faith from the best information available at the time of issue. It is based on the present level of research and to this extent we believe it is accurate. However, no guarantee of accuracy is made or implied and since conditions of use are beyond our control, all information relevant to usage is offered without warranty. The manufacturer will not be held responsible for any unauthorised use of this information or for any modified or altered versions.

If you are an employer, it is your duty to tell your employees, and any others that may be affected, of any hazards described in this sheet and of any precautions that should be taken.

Safety Data Sheets are updated frequently. Please ensure you have a current copy.

This SDS summarises our best knowledge of the health and safety hazard information available for this product and how to safely handle and use it. Since the use of this information and the conditions of the use of this product are not under the control of Grochem, it is the user's responsibility to determine conditions of safe use of the product.