


Safety Data Sheet

ALARIS WG L9102 (Act 36 of 1947)

1) PRODUCT AND COMPANY IDENTIFICATION	
Product name:	ALARIS WG
Other means of identification:	Dithianon 700 WG
Chemical Name:	5,10-dihydro-5,10-dioxonaphtho[2,3- <i>b</i>]-1,4-dithiine-2,3dicarbonitrile
Recommended Use:	Fungicide
Restrictions on use:	Agriculture
UN No:	3077
Distributed by:	MERIDIAN AGRITECH P O BOX 436 MODDERFONTEIN TEL 011 8228509 FAX 0866901386 MOBILE: 0834006056 www.agritech.co.za
Emergency Number:	POISON CENTRE (UNITAS HOSPITAL) 012 664 1100 TYGERBERG:021 931 6129 RED CROSS: 021 689 5227 RAPID SPILL RESPONSE 0800 775 3305 GRIFFON POISON CENTRE: 082 446 8946
2) HAZARDS IDENTIFICATION:	
Classification of the substance / mixture:	GHS: Oral Category: 3 Dermal Category: 5 Acute Toxicity Category 4 (Ingestion) Skin Sensitization Category 1 Eye Damage Category 1 Acute Toxicity Category 2 (Inhalation) Carcinogenic Category 2 Aquatic Acute Category 1 Aquatic Chronic Category1
Label Elements: Globally Harmonized System, EU (GHS):	Pictogram:  Signal Word: Warning Hazard Statements: H302: Harmful if swallowed. H317: May cause an allergic skin reaction. H318: Causes serious eye damage. H330: Fatal if inhaled. H351: Suspected of causing cancer. H400: Very toxic to aquatic life. H410: Very toxic to aquatic life with long-lasting effects. Precautionary Statements: P262: Do not get in eyes, on skin, or on clothing. P264: Wash face and hands thoroughly after handling. P270: Do not eat, drink or smoke when using this product.

According to Directive 67/548/EEC No. 1272/2008 [CLP]

P271: Use only outdoors or in a well-ventilated area.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P284: In case of inadequate ventilation wear respiratory protection.
P403+233: Store in a well-ventilated place. Keep container tightly closed.

Hazard symbols:

N: Dangerous for the environment
 Xn: Harmful

R-phrase(s):

R22: Harmful if swallowed.
 R23: Toxic by inhalation.
 R41: Risk of serious damage to eyes.
 R43: May cause sensitization by skin contact.
 R45: May cause cancer.
 R50/53: Very toxic to aquatic organisms, may cause long-term effects in the aquatic environment.

S-Phrase(s):

S1/2: Keep locked up and out of reach of children.
 S3: Keep in a cool place.
 S7: Keep container tightly closed.
 S13: Keep away from food, drink and animal feeding stuffs.
 S20/21: When using, do not eat, drink or smoke.
 S23: Do not breathe vapour/spray.
 S24/25: Avoid contact with the skin and eyes.
 S28: After contact with skin, wash immediately with plenty of water.
 S35: This material and its container must be disposed of in a safe way.
 S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.
 S46: If swallowed, seek medical advice immediately and show this container or label.
 S57: Use appropriate containment to avoid environmental contamination.
 S61: Avoid release to the environment. Refer to special instructions/Safety data sheets.

3) COMPOSITION / INFORMATION ON INGREDIENTS:

3.1 Substances:

Not applicable

3.2 Mixtures:

Chemical Name	Concentration	CAS No.	EC No.	Classification according to Regulation EC 1272/2008 (CLP)
Dithianon	700 g/kg	3347-22-6	222-098-6	Acute Tox. 4 (H302) Skin Sens. 1 (H317) Eye Dam. 1 (H318) Acute Tox. 2 (H330) Carc. 2 (H351) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)

4) FIRST AID MEASURES:

Description of First-Aid Measures:

Inhalation:

Remove patient to fresh air. Loosen clothing around neck and keep patient calm. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance if symptoms develop or persist.

Skin contact:

Immediately remove contaminated clothing and wash affected areas thoroughly with soap and water. Wash contaminated clothing before re-use. Seek medical assistance if irritation persists.

Eye contact:

Flush eyes with plenty of water for at least 15 minutes holding eyelids open. Remove contact lenses. **Seek medical assistance immediately.**

<p>Ingestion</p> <p>Most important symptoms and effects, both acute and delayed:</p> <p>Indication of any immediate medical attention and special treatment needed:</p>	<p>Rinse mouth and then get the patient to drink lots of water. Never give anything by mouth to an unconscious or semiconscious person. Do not induce vomiting. Seek medical assistance immediately and show this label or container or contact the poison centre. Carefully place the patient in such a way as to prevent vomit from entering the lungs. The above first aid instructions are applicable following ingestion of spray solution or small amounts of concentrate. However, if substantial amounts of the concentrate have been swallowed (>5g or about 1 teaspoon) AND if medical assistance is more than 30 minutes away, the induction of vomiting can be CONSIDERED, based on MEDICAL ADVICE if a physician can be contacted telephonically. Take special care to avoid the vomit from being inhaled.</p> <p>To date no symptoms are known.</p> <p>No specific antidote known. Treat symptomatically and supportively.</p>
<p>5) FIRE-FIGHTING MEASURES:</p>	
<p>Extinguishing Media:</p> <p>Unsuitable Extinguishing Media:</p> <p>Specific Hazards arising from the substance/mixture:</p> <p>Fire Fighting:</p> <p>Protective clothing:</p>	<p>Carbon dioxide, dry chemical powder, water spray</p> <p>Strong jet of water, airborne dusts may form a flammable dust cloud.</p> <p>This product consists of a high proportion of an organic solid. Large accumulations of dust and fines associated with the industrial processing of bulk material may become a dust explosion hazard.</p> <p>This product could evolve oxides of carbon, nitrogen or sulphur if involved in a major fire.</p> <p>If the material is involved in a fire, especially in a confined space, then breathable air apparatus may have to be worn. Remove spectators from surrounding area. Isolate the fire area and evacuate downwind. Use a recommended extinguishing agent for the type of surrounding fire. Fight fire from maximum distance and use unmanned hose holder or monitor nozzles. Contain fire control agents for later disposal.</p> <p>Avoid inhaling hazardous vapours and fumes from burning materials. Keep upwind. Remove container from fire area if possible and without risk. Water can be used to cool unaffected containers but must be contained for later disposal. Do not scatter the material. Avoid pollution of waterways. Dispose of the fire debris and the contaminated extinguishing water according to official regulations</p> <p>Full protective clothing and self-contained breathing apparatus</p>
<p>6) ACCIDENTAL RELEASE MEASURES:</p>	
<p>Personal precautions, protective equipment and emergency procedures:</p> <p>Environmental Precautions:</p> <p>Occupational spill:</p>	<p>Avoid contact with eyes, skin and clothing. For personal protection see Section 8.</p> <p>Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. Do not allow to enter drains or watercourses. If contamination of water courses is unavoidable, report to the Police and the Department of Water/Environmental Affairs immediately.</p> <p>Recover the product by sweeping up or by vacuuming, raising dust. Collect the spilled material and waste into sealable open-top type containers for disposal. Decontaminate floors and objects thoroughly with water and detergents.</p>

	<p>On-site disposal of concentrate is unacceptable. Material must be disposed of in accordance with local and national regulations.</p> <p>Clear area of animals and unprotected personnel. Wear protective gear: goggles. Half face-piece respirator with combined dust and vapour cartridge, full length clothing and PVC gloves. Reposition leaking containers to minimize further leakage. Do not allow contamination of public drains or surface or ground waters. Inform the local authorities if the spillage enters drains or surface or ground waters.</p>
7) HANDLING & STORAGE:	
<p>Precautions for Safe Handling:</p> <p>Conditions for Safe Storage, including any incompatibilities:</p>	<p>Do NOT contaminate dams, rivers or streams, or any other water bodies with any pesticides or used containers. Avoid generating dusts while handling and mixing this product.</p> <p>Avoid skin and eye contact as this product will irritate. Thus Harmful if swallowed. Wash hands thoroughly with soap and water before breaks and immediately after handling the product. Do not eat, drink, smoke or apply cosmetics when there is a possibility of exposure to the product. Wash goggles or face shield and contaminated clothing thoroughly after each day's use. When opening the container and preparing the spray wear the following protection: Cotton overalls buttoned up to the neck and wrist (or equivalent clothing) Elbow length PVC gloves Goggles or face shield</p> <p>Store in the closed, original container in a dry, cool and well-ventilated area out of direct sunlight.</p>
8) EXPOSURE CONTROL / PERSONAL PROTECTION:	
<p>Appropriate Engineering Controls:</p> <p>Control Parameters: Occupational Exposure Limits:</p> <p><u>PERSONAL PROTECTIVE EQUIPMENT:</u></p> <p>Clothing:</p> <p>Respiratory protection:</p> <p>Gloves:</p> <p>Eye protection:</p> <p>Emergency eye wash:</p>	<p>It is essential to provide adequate ventilation. The measures appropriate for a particular work site depend on how this material is used and on the extent of exposure. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire, and other applicable regulations.</p> <p>No data available</p> <p>Consult supplier to confirm that the equipment is suitable.</p> <p>When opening the container and preparing the spray wear the following protection: Cotton overalls buttoned up to the neck and wrist Washable hat Elbow length PVC gloves Goggles or face shield</p> <p>If dusts are present, wear a class P1 dust mask</p> <p>Elbow length PVC gloves.</p> <p>The use of face shields or safety goggles with side shields is recommended.</p> <p>Where there is any possibility that an employee's eyes may be exposed to this substance, the employer should provide an eye wash fountain or appropriate alternative within the immediate work area for emergency use.</p>
9) PHYSICAL & CHEMICAL PROPERTIES:	
Appearance:	Dark brown granules
Odour:	Characteristic
Solubility:	0.14 mg/l (pH 7, 20 °C)
pH:	6.9
Odour Threshold:	Not available
Melting point / Freezing point:	Not available
Initial boiling point and boiling range:	Not available
Flash Point:	Not flammable
Evaporation rate:	Not available

Flammability (solid, gas):	Not available
Upper/ lower flammability or explosive limits:	Not available
Vapour pressure:	Not available
Vapour density:	Not available
Relative density:	Not applicable
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature:	Not available
Decomposition Temperature:	Not available
Viscosity:	Not applicable
10) STABILITY & REACTIVITY:	
Reactivity:	No hazardous reactions if stored and handled as indicated.
Chemical Stability:	When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture.
Possibility of hazardous reactions:	Hazardous polymerization does not occur.
Conditions to avoid:	Avoid temperatures above 80°C.
Incompatible materials:	Avoid contact of concentrate with strong alkalis and alkaline materials such as lime, lime sulphur and Bordeaux mixtures
Hazardous decomposition product(s):	This product could evolve oxides of carbon, nitrogen or sulphur if involved in a major fire.
11) TOXICOLOGICAL INFORMATION:	
Acute Toxicity:	
Oral:	LD ₅₀ 273-520 mg/kg, rat
Dermal:	LD ₅₀ > 4 000 mg/kg, rat.
Inhalation:	LC ₅₀ (4h) 0.33 mg/L, rat for dithionon.
Skin Corrosion/Irritation:	Not an irritant
Serious Eye Damage/Irritation:	Severe irritant
Respiratory or Skin Sensitization:	Causes sensitization on laboratory animals.
Germ Cell Mutagenicity:	No data available
Carcinogenicity:	No data available
Reproductive Toxicity:	No data available
STOT-SE:	No data available
STOT-RE:	No data available
Aspiration Hazard:	No data available
12) ECOLOGICAL INFORMATION:	
Ecotoxicity:	
Birds:	LD ₅₀ for male quail 430, female quail 290 mg/kg
Fish:	LC ₅₀ (96 h) for rainbow trout 0.016mg/L
Daphnia:	LC ₅₀ (48 hrs) 0.110 mg/l for the formulated product.
Algae:	No data available.
Worms:	LC ₅₀ (7 d) 588.4 mg/kg soil, (14 d) 578.4 mg/kg soil.
Bees:	LD ₅₀ >100 µg/bee.
Other:	No data available.
Persistence and Degradability:	Soil DT ₅₀ (lab, 20 °C, 41–45% MWHC) 2.6–37.6 d; soil DT ₉₀ (lab, 20 °C; 41-45% MWHC) 8.5–125 d
Bio accumulative Potential:	No data available.
Mobility in Soil:	No data available.
13) DISPOSAL CONSIDERATIONS:	
Waste Disposal:	In accordance with local and national regulations. On site disposal is unacceptable. Do not contaminate water, food or feed by disposal. Wastes Approach the local authorities who hold periodic collections of unwanted chemicals.
Container Disposal:	DO NOT REUSE THE CONTAINER FOR ANY OTHER PURPOSE. Shake the remaining amount of this product from the bag into the application equipment. Wash out the inner thoroughly and add the washings to the spray tank. Do not burn empty containers.
14) TRANSPORTATION INFORMATION:	
Road Transport ADR / IRD:	UN NUMBER: 3077 UN Proper Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Dithionon 70%) Transport Hazard Class: 9 Miscellaneous Dangerous Goods

	Packaging group: III Labelling no: 9 Environmental Hazards: Not applicable Special Precautions for User: Read safety instructions, SDS and emergency procedures before handling.
Maritime Transport IMDG / IMO:	UN NUMBER: 3077 UN Proper Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Dithianon 70%) Transport Hazard Class: 9 Miscellaneous Dangerous Goods Packaging group: III Labelling no: 9 Environmental Hazards: Marine Pollutant Special Precautions for User: Read safety instructions, SDS and emergency procedures before handling.
Air Transport ICAO / IATA:	UN NUMBER: 3077 UN Proper Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Dithianon 70%) Transport Hazard Class: 9 Miscellaneous Dangerous Goods Packaging group: III Labelling no: 9 Environmental Hazards: Not applicable Special Precautions for User: Read safety instructions, SDS and emergency procedures before handling.
Transport in Bulk (according to Annex II of MARPOL 73/78 and the IBC Code):	Not applicable
15) REGULATORY INFORMATION:	
Safety, health and environmental regulations/legislation specific for the substance/mixture:	For the user of this plant-protective product applies: 'To avoid risks to man and the environment, comply with the instructions for use.' (Directive 1999/45/EC, Article 10, No. 1.2)
Chemical Safety Assessment:	Advice on product handling can be found in sections 7 and 8 of this safety data sheet.
16) OTHER INFORMATION:	
<p>All information and instructions provided in this Safety Data Sheet (SDS) are based on the current state of scientific and technical knowledge at the date indicated on the present SDS and are presented in good faith and believed to be correct. This information applies to the product as such. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear.</p> <p>It is the responsibility of persons in receipt of this SDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with this product. If the recipient subsequently produces formulation(s) containing this product, it is the recipient's sole responsibility to ensure the transfer of all relevant information from this SDS to their own SDS. The information contained herein is provided in good faith but makes no representation as to its comprehensiveness or accuracy. A properly trained person using this product intends this document only as a guide to the appropriate handling of the material. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.</p> <p>MERIDIAN AGRITECH MAKES NO REPRESENTATION OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS. ACCORDINGLY, MERIDIAN AGRITECH (PTY) LTD WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM USE OF OR RELIANCE UPON THIS INFORMATION.</p> <p>Date of issue: 04/03/2013 Date of revision: 05/02/2018 Abbreviations: None Literature References:</p> <ul style="list-style-type: none"> GHS: www.ccohs.ca/oshanswers/chemicals/ghs.html ECHA: https://echa.europa.eu/search-chemicals 	