

Norshield 45WG

HAZARDOUS, DANGEROUS GOODS

1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

Product name: Norshield 45WG

Recommended use: Fungicide for the control of various pests in apples and grapes.

Company details: Grochem Agrinova New Zealand Limited

15 Sunlight Grove

Porirua New Zealand

Telephone: +64 4 237 0905

Email: grochem@grochem.com

Emergency telephone: New Zealand

0800 CHEMCALL - 24 hours

(0800 243 6225)

Australia 1800 127 406

Other locations +64 4 917 9888

01

The National Poisons Centre 0800 POISON (0800 764 766)

Date of preparation: 14 July 2020

2. HAZARDS IDENTIFICATION

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

HSNO Approval Code: HSR101409





Signal Word: Danger

Hazard Classifications: 6.1E - Substances that are acutely toxic - Inhalation - vapours, dusts or mists

6.9B (Single exposure) - Substances that are harmful to human target organs or systems

9.1A - Substances that are very ecotoxic in the aquatic environment (H400)

9.3B - Substances that are ecotoxic to terrestrial vertebrates

Hazard Statements: H333 – May be harmful if inhaled.

H371 – May cause damage to organs. H400 – Very toxic to aquatic life. H432 – Toxic to terrestrial vertebrates.

Prevention Precautionary Statements: P102 – Keep out of reach of children

P103 - Read label before use

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

P273 – Avoid release to the environment.

Response Precautionary Statements: P101 – If medical advice is needed, have product container or label at hand

P304+P312 - IF INHALED: Call a POISON CENTRE or doctor/physician if you feel

unwell

P307+P311 - IF exposed: Call a POISON CENTRE or doctor/physician

P321 - Specific treatment (see product label)

P391 - Collect spillage



Storage Precautionary Statement: P405 – Store locked up

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:

3. COMPOSITION/INFORMATION ON INGREDIENTS

Classification & type:

Material CAS No. Proportion (%w)

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. Seek medical advice if

effects persist.

Skin Contact: If skin or hair contact occurs, remove contaminated clothing and flush skin and hair

with running water. If swelling, redness, blistering or irritation occurs seek medical

assistance.

Eye contact: If in eyes wash out immediately with water. In all cases of eye contamination, it is a

sensible precaution to seek medical advice.

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. Seek medical advice.

PPE for First Aiders: Wear overalls, gloves, safety glasses, dust mask. 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

Hazchem Code: 2Z

Suitable extinguishing media: If material is involved in a fire use water fog (or if unavailable fine water spray), alcohol

resistant foam, standard foam, dry agent (carbon dioxide, dry chemical powder).

Specific hazards: Non-combustible material.

Firefighting further advice: Not applicable.

6. ACCIDENTAL RELEASE MEASURES

Small Spills: Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of

vapours or dust. Wipe up with absorbent (clean rag or paper towels). Collect and seal

in properly labelled containers or drums for disposal.

Large Spills: 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 dust. Work up wind or increase ventilation. Cover with damp absorbent (inert material, sand or soil). Sweep or vacuum up, but avoid generating dust. 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:

47



7. HANDLING AND STORAGE

Handling: Avoid eye contact and skin contact. Avoid inhalation of dust.

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. Store locked up. Keep container standing upright.

Keep containers closed when not in use - check regularly for spills.

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

National occupational exposure limits:	TWA		STEL		NOTICES
	ppm	mg/m³	ppm	mg/m³	
Zinc oxide dust		10			
Zinc oxide fume		3		10	

As published by WorkSafe New Zealand.

WES-TWA (Workplace Exposure Standard - Time-weighted average). The average airborne

concentration of a substance calculated over an eight-hour working day.

WES-Ceiling (Workplace Exposure Standard - Ceiling). A concentration that should not be exceeded

at any time during any part of the working day.

WES-STEL (Workplace Exposure Standard - Short-term exposure limit). The 15-minute time

weighted average exposure standard. Applies to any 15-minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Exposures at concentrations between the WES-TWA and the WES-STEL should be less than 15 minutes, should occur no more than four times per day, and there should be at least 60 minutes between successive

exposures in this range.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept too as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

Biological Limit Values: As per the WorkSafe New Zealand the ingredients in this material do not have a

Biological Limit Allocated.

Engineering Measures: Ensure ventilation is adequate to maintain air concentrations below Exposure Standards.

Use only in well ventilated areas. Avoid generating and inhaling dusts. Use with local

exhaust ventilation or while wearing dust mask.

Personal Protection Equipment: Overalls, gloves, safety glasses, dust mask.

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, dust mask. 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.

Hygiene measures: 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 dust. Ensure that eyewash

stations and safety showers are close to the workstation location.

9. PHYSICAL AND CHEMICAL PROPERTIES

FormGranulesSolubility in waterDispersibleColourRed brownpH7 - 8.5

Odour Vanilla

(Typical values only)



10. STABILITY AND REACTIVITY

Chemical stability: This material is thermally stable when stored and used as directed.

Conditions to avoid: Elevated temperatures and sources of ignition.

Incompatible materials: Oxidising agents.

Hazardous decomposition products: Oxides of carbon and nitrogen, smoke and other toxic fumes.

Hazardous reactions: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: Material may be an irritant to mucous membranes and respiratory tract.

Skin contact: Contact with skin may result in irritation.

Ingestion: Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.

Eye contact: May be an eye irritant. Exposure to the dust may cause discomfort due to particulate

nature. May cause physical irritation to the eyes.

Acute toxicity

Inhalation: This material has been classified as a 6.1E - Substances that are acutely toxic.

Skin contact: This material has been classified as non-hazardous. Acute toxicity estimate (based on

ingredients): >5,000 mg/Kg bw

Ingestion: This material has been classified as non-hazardous. Acute toxicity estimate (based on

ingredients): >5,000 mg/Kg bw

Corrosion/Irritancy: Eye: this material has been classified as not corrosive or irritating to eyes. Skin: this

material has been classified as not corrosive or irritating 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 non-hazardous.

Specific target organ toxicity (single exposure):

This material has been classified as a 6.9A - Substances that are toxic to human target

organs or systems.

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 non-hazardous.

12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

Acute aquatic hazard: 9.1A - Substances that are very ecotoxic in the aquatic environment. Acute toxicity estimate

(based on ingredients): <1 mg/L

Long-term aquatic hazard: This material has been classified as non-hazardous. 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): >100 mg/L, where the

substance is not rapidly degradable and/or BCF < 500 and/or log Kow < 4.

Ecotoxicity in the soil environment: This material has been classified as non-hazardous.

Ecotoxicity to terrestrial vertebrates: This material has been classified as a 9.3B - Substances that are ecotoxic to terrestrial

vertebrates.



Ecotoxicity to terrestrial invertebrates: This material has been classified as non-hazardous.

Ecotoxicity:No information available.Persistence and degradability:No information available.Bioaccumulative potential:No information available.Mobility: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".



UN No: 3077

Dangerous Goods Class: 9

Packing Group: III

Hazchem Code: 2Z

Emergency Response Guide No: 47

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Segregation Dangerous Goods: 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.



UN No: 3077

Dangerous Goods Class: 9

Packing Group: III

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, 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.



UN No: 3077

Dangerous Goods Class: 9

Packing Group: III

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

15. REGULATORY INFORMATION

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

HSNO Approval Code: HSR101409

Approved handler No

Location test certificate Yes

Fire extinguishers No

Signage Yes

Emergency response Yes

Hazardous atmosphere zone No

16. OTHER INFORMATION

Reason for issue: First Issue

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.