

Infosafe No™ 3NUEZ	Issue Date : October 2024	ISSUED by NUFARMNZ
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 Product Name **HORNET® 430SC**

Section 1 - Identification

Product Identifier	HORNET® 430SC
Product Code	02708
Product Type	Fungicide
Company Name	Nufarm NZ
Address	Central Park, Building 3, Level 4, 666 Great South Road Ellerslie Auckland 1051 New Zealand
Telephone/Fax Number	Tel: 0-9-270 4150
Emergency Phone Number	0800 651 911
Email	nzinfo@nufarm.com
Recommended uses and any restrictions on use or supply	A systemic triazole (DMI) fungicide for the control of diseases in cereals, grass seed crops, peas and onions, for the control of brown rot in stonefruit and to control rust and fusarium in pasture.
Other Information	This SDS describes, to the best of our knowledge, the properties of the concentrated product. The physical properties and some of the assessments do not apply to the properties of the product once it has been diluted for application. Acute health effects of the diluted product are likely to be much less severe.

Section 2 - Hazard(s) Identification

GHS classification of the substance/mixture	Reproductive toxicity: Category 2 Specific target organ toxicity - repeated exposure: Category 2 Hazardous to the terrestrial environment: Hazardous to terrestrial vertebrates Hazardous to the aquatic environment acute Category 1 Hazardous to the aquatic environment chronic Category 1
Signal Word (s)	WARNING
Hazard Statement (s)	H361 Suspected of damaging fertility or the unborn child. H373 May cause damage to the endocrine system through prolonged or repeated oral exposure at high doses. H410 Very toxic to aquatic life with long lasting effects. H431 Very toxic to terrestrial vertebrates. H433 Harmful to terrestrial vertebrates.
Precautionary Statement – General	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P103 Read carefully and follow all instructions.
Pictogram (s)	Health hazard, Environment



Precautionary Statement – Prevention	P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe dust/fume/gas/mist/vapours/spray. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
Precautionary Statement – Response	P308+P313 IF exposed or concerned: Get medical advice/attention. P314 Get medical advice/attention if you feel unwell. P391 Collect spillage.
Precautionary Statement – Storage	P405 Store locked up.
Precautionary Statement – Disposal	P501 Dispose of contents/container to an approved landfill.

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Section 3 - Composition and Information on Ingredients

Chemical Characterization	Liquid		
Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Tebuconazole	107534-96-3	430 g/L
	Ingredients determined to be non-hazardous	-	To volume

Section 4 - First Aid Measures

First-aid Measures	For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately. Begin artificial respiration if the victim is not breathing. Use mouth-to-nose rather than mouth-to-mouth. Obtain medical attention.
Inhalation	Remove patient to fresh air. Lay down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance immediately.
Ingestion	Never give anything by mouth to an unconscious person. If swallowed do NOT induce vomiting. For advice, contact the National Poisons Centre (0800 764 766). Seek medical assistance immediately.
Skin	Immediately flush body and clothes with large amounts of water. Remove contaminated clothing and footwear. Wash affected areas with soap and water. If a large area is affected seek medical assistance.
Eye	Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. Remove contact lenses, if present and easy to do. Seek medical assistance even if there are no immediate symptoms.
First-aid Facilities	Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.
Advice to Doctor	Treat symptomatically.

Section 5 - Firefighting Measures

Suitable Extinguishing Media	If involved in a fire, the product will not burn. Choose extinguishing media to suit the burning material. Water fog, foam, carbon dioxide or dry chemical.
Hazards from Combustion Products	May emit hazardous smoke and fumes if involved in fires or exposed to extreme heat.
Special protective equipment for fire-fighters	Full protective clothing and self-contained breathing apparatus.
Specific Methods	Do not allow washings to reach sewage or effluent systems. Keep up wind.
Specific hazards arising from the chemical	Considered low risk due to water content, however upon evaporation of water the product is combustible.
Hazchem Code	2X
Decomposition Temperature	Information is not available.
Other Information	Location Certificate: Not applicable Hazardous Atmosphere Zone: Not applicable Number of Fire Extinguishers: Not applicable

Section 6 - Accidental Release Measures

Spills and Disposal	Wear protective clothing. Clear area of unprotected personnel. Contain spill and absorb with sand, soil or absorbent granules. If spill does enter waterways contact the local authority. Collect in an appropriate sealable container for disposal in an approved landfill. Wash area with water and absorb with further inert material and collect in sealable container for disposal.
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Personal Protection For appropriate personal protective equipment (PPE), refer Section 8.

Environmental Precautions Prevent from entering drains, waterways or sewers.

Section 7 - Handling and Storage

Precautions for Safe Handling Do not handle until all safety precautions have been read and understood. The person mixing or applying Hornet 430SC must be a 'Qualified Contractor' or a 'Qualified Person'. The spray mixture may also be prepared by a 'Qualified Loader'. It is the duty of the PCBU that a person who uses, handles, manufactures or stores a hazardous substance (including hazardous waste) is provided information, instruction and training in accordance with Regulation 4.5 of the Health and Safety at work (Hazardous Substances) Regulations 2017. Avoid skin and eye contact and inhalation of spray mist.
CERTIFIED HANDLER: Is not required.
TRACKING: Is not required.
RECORD KEEPING: Records of use as described in NZS 8409 Management of Agrichemicals must be kept if 3 litres or more of Hornet 430SC is used within 24 hours. Records must be kept for a minimum of 3 years from application date.

Conditions for safe storage, including any incompatibilities Keep out of reach of children. Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs. Storage must be in accordance with NZS 8409 Management of Agrichemicals.

Other Information Stores containing 100L of Hornet 430SC require secondary containment and are subject to signage, and more than 100L require emergency response plans. Always read the label and any attached leaflet before use.
Aggregate Storage Volume Thresholds:
 When stored with substances of the same hazard classification the aggregate quantity must be considered. For full details refer to the current NZS8409 Management of Agrichemicals and the HSNO Regulations.

Section 8 - Exposure Controls and Personal Protection

Occupational Exposure Limits (OEL) No exposure limits (WES, TEL or EEL's) have been specifically assigned for this product.

Appropriate Engineering Controls Handle in well ventilated areas, generally natural ventilation is adequate.

Personal Protective Equipment safety goggles, When opening the container, preparing spray and using the prepared spray wear impervious gloves, cotton overalls buttoned to the neck and wrist, and boots.

Hygiene Measures Do not eat, drink or smoke while using.
 Remove protective clothing and wash hands and face thoroughly before meals and after work. Wash protective clothing daily after work. Wash splashes of concentrate from skin immediately.

Section 9 - Physical and Chemical Properties

Form Liquid

Appearance White liquid.

Odour Slight odour.

Decomposition Temperature Information is not available.

Melting Point 105°C for active ingredien tebuconazole.

Solubility in Water Disperses in water.

Specific Gravity 1.07

pH 6.0 - 8.0 (neat)

Vapour Pressure 1.7 x 10⁻³ mPa (20°C) for active ingredien tebuconazole.

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Vapour Density (Air=1)	Information is not available.
Odour Threshold	Information is not available.
Viscosity	2000 cps
Partition Coefficient: n-octanol/water	Kow Log P is 3.7 (20°C) for active ingredien tebuconazole.
Flash Point	Information is not available.
Flammability	Non combustible material.
Auto-ignition Temperature	Information is not available.
Flammable Limits - Lower	Information is not available.
Flammable Limits - Upper	Information is not available.
Initial Boiling Point and Boiling Range	Information is not available.
Kinematic Viscosity	Information is not available.
Particle Characteristics	Information is not available.
Other Information	(SC) Suspension Concentrate

Section 10 - Stability and Reactivity

Chemical Stability	Stable under normal conditions of handling and storage.
Conditions to Avoid	Excessive heat and fire.
Hazardous Polymerization	Not known to occur.

Section 11 - Toxicological Information

Toxicology Information	No specific toxicological data is available for this product. Data below is for constituents.
Acute Toxicity - Oral	LD50 (rat, female) 1700 mg/kg for tebuconazole
Acute Toxicity - Inhalation	LC50 (rat) (4hr) >5.1 mg/l for tebuconazole dust.
Acute Toxicity - Dermal	LD50 (rat) >5000 mg/kg for tebuconazole
Ingestion	Low toxicity. However, swallowing large amounts of concentrate may cause nausea and vomiting.
Inhalation	Not a likely route of exposure when handling the concentrate. When applying the product as a spray avoid breathing in spray mist.
Skin Corrosion/Irritation	Not irritating to skin for active ingredien tebuconazole.
Serious Eye Damage/Irritation	Mild irritatant to eyes for active ingredien tebuconazole.
Skin Sensitisation	Information is not available.
Germ Cell Mutagenicity	Information is not available.
Carcinogenicity	Information is not available.
Reproductive Toxicity	Suspected of damaging fertility or the unborn child.
STOT - Single Exposure	Information is not available.

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STOT - Repeated Exposure	May cause damage to the endocrine system through prolonged or repeated oral exposure at high doses.
Aspiration Hazard	Information is not available.
Other Information	The Australian Acceptable Daily Intake (ADI) for tebuconazole for a human is 0.03 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 3 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. (Ref: Aust Govt Dept. of APVMA, 'ADI List', Edition 1/2024).

Section 12 - Ecological Information

Persistence and Degradability	Not rapidly degradable. DT50 = 866 days anaerobic for active ingredien tebuconazole. DT50 = 1,386 days aerobic for active ingredien tebuconazole.
Mobility	Information is not available.
Bioaccumulative Potential	Not bioaccumulative. BCF: whole fish = 78.
Basis for Assessment	Data below is for the active ingredient unless otherwise stated.
Acute Toxicity - Fish	LC50 (96hr) for rainbow trout is 4.4 mg/l for tebuconazole.
Acute Toxicity - Daphnia	LC50 (48hr) for daphnia is 2.79mg/l for tebuconazole.
Acute Toxicity - Algae	ErC50 (72h, static) for Pseudokirchneriella subcapitata 3.80mg/L for tebuconazole.
Acute Toxicity - Other Organisms	LD50 for bobwhite quail is 1,988 mg/kg for tebuconazole. LD50 (contact) >200µg/bee; (oral, 48h) 83µg/bee for tebuconazole.

Section 13 - Disposal Considerations

Product Disposal	Dispose of product only by using according to the label, or at an approved landfill.
Container Disposal	Triple rinse empty container and add rinsate to spray tank. Recycle empty container. Otherwise crush and bury in a suitable landfill.

Section 14 - Transport Information

Transport Information	It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.
UN Number	3082
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. - (tebuconazole)
Hazard Class	9
Hazchem Code	2X
Packaging Method	-
Packing Group	III
EPG Number	-
IERG Number	47
IMO Marine Pollutant	Yes. Environmentally Hazardous Substance mark required.
IMDG EMS	F-A, S-F
Other Information	Do not carry more than 10L of Hornet 430SC on a passenger service vehicle. Segregation: Check the latest Land Transport Rule Dangerous Goods Rule 45001 for additional information. Sea transport may require additional segregation. Refer NZS5433 sea segregation for details.

Section 15 - Regulatory Information

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National and or International Regulatory Information	Registered pursuant to the ACVM Act 1997, No. P7583 See www.foodsafety.govt.nz for registration conditions Approved pursuant to the HSNO Act 1996, Approval Code HSR007675 See www.epa.govt.nz for approval controls.
Packaging and Labelling	KEEP LOCKED UP KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Section 16 - Any Other Relevant Information

Date of preparation or last revision of SDS August 2022.

Contact Person/Point IN AN EMERGENCY, DIAL 111 - FIRE OR POLICE
24Hr Tollfree Emergency No: 0800 651 911
24Hr Emergency No: National Poisons Centre Phone: 0800 764 766

Revisions Highlighted Various changes and updates made to the document to comply with GHS7.

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