

Infosafe No™ 3NUEZ	Issue Date : August 2022	ISSUED by NUFARMNZ
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 Product Name **HORNET® 430SC**

## Section 1 - Identification

<b>Product Identifier</b>	HORNET® 430SC
<b>Product Code</b>	02708
<b>Product Type</b>	Fungicide
<b>Company Name</b>	Nufarm NZ
<b>Address</b>	Central Park, Building 3, Level 4, 666 Great South Road Ellerslie Auckland 1051 New Zealand
<b>Telephone/Fax Number</b>	Tel: 0-9-270 4150
<b>Emergency Phone Number</b>	0800 651 911
<b>Email</b>	nzinfo@nufarm.com
<b>Recommended uses and any restrictions on use or supply</b>	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.
<b>Other Information</b>	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

<b>Other Information</b>	6.1E acute toxicant, 6.9B target organ toxicant, 9.1A aquatic toxicant, TOXICITY Harmful - may be harmful if swallowed, inhaled or absorbed through the skin. May cause damage to the endocrine system from repeated oral exposure at high doses. ECOTOXIC Very toxic to aquatic organisms with long-lasting effects.
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## Section 3 - Composition and Information on Ingredients

<b>Chemical Characterization</b>	Liquid		
<b>Ingredients</b>	<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

<b>First-aid Measures</b>	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.
<b>Inhalation</b>	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.
<b>Ingestion</b>	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.
<b>Skin</b>	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.
<b>Eye</b>	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.
<b>First-aid Facilities</b>	Facilities storing or utilizing this material should be equipped with an

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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** Keep up wind. Do not allow washings to reach sewage or effluent systems.

**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

**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.

**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** Avoid skin and eye contact and inhalation of spray mist.  
 APPROVED HANDLER: This product must be under the control of an approved handler during use.  
 TRACKING: Is not required  
 RECORD KEEPING: Records of use as described in NZS 8409 Management of Agrichemicals must be kept if 3L or more is applied within 24 hours.

**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.  
 Stores containing 100L of HORNET 430SC require secondary containment and are subject to signage, and more than 100L require emergency response plans.

**Other Information** 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.

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

<b>Form</b>	Liquid
<b>Appearance</b>	White liquid
<b>Odour</b>	Slight odour
<b>Solubility in Water</b>	Disperses in water.
<b>Specific Gravity</b>	1.07
<b>pH</b>	6.0 - 8.0 (neat)
<b>Vapour Pressure</b>	1.7 x 10 <sup>-3</sup> mPa (20°C for tebuconazole)
<b>Viscosity</b>	2000 cps
<b>Partition Coefficient: n-octanol/water</b>	Kow Log P is 3.7 for tebuconazole
<b>Flammability</b>	Non combustible material.
<b>Other Information</b>	(SC) Suspension Concentrate

## Section 10 - Stability and Reactivity

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

## Section 11 - Toxicological Information

<b>Toxicology Information</b>	No specific toxicological data is available for this product. Data below is for constituents.
<b>Acute Toxicity - Oral</b>	LD50 (rat, female) 1700 mg/kg for tebuconazole
<b>Acute Toxicity - Inhalation</b>	LC50 (rat) (4hr) >5.1 mg/l for tebuconazole dust
<b>Acute Toxicity - Dermal</b>	LD50 (rat) >5000 mg/kg for tebuconazole
<b>Ingestion</b>	Low toxicity. However, swallowing large amounts of concentrate may cause nausea and vomiting.
<b>Inhalation</b>	Not a likely route of exposure when handling the concentrate. When applying the product as a spray avoid breathing in spray mist.
<b>Skin</b>	May irritate the skin.
<b>Eye</b>	The concentrate may cause irritation of the eyes.
<b>Skin Corrosion/Irritation</b>	Not a skin irritant.
<b>Serious Eye Damage/Irritation</b>	Not an irritant.
<b>Reproductive Toxicity</b>	Evidence from animal studies suggests the potential for developmental toxicity on repeated or prolonged exposure.
<b>Subchronic/Chronic Toxicity</b>	NOAEL 3mg/kg bw/day in 2 1-year studies in dogs for tebuconazole Target organ - endocrine system

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**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 2.96 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: Comm. Dept. of Health and Ageing, Office of Chemical Safety, 'ADI List', December 2014).

## Section 12 - Ecological Information

**Persistence and Degradability** Not rapidly degradable  
DT50 = 866 days anaerobic for tebuconazole  
DT50 = 1,386 days aerobic for tebuconazole

**Bioaccumulative Potential** Not bioaccumulative  
BCF: whole fish = 78

**Other Precautions** Do not contaminate dams, waterways or sewers with this product or the containers which have held this product.

**Environmental Protection** Spray drift should be avoided, read the label for more information.

**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** EC50 (72h) for Selenastrum capricornutum 3.8 mg/l for tebuconazole.  
EC50 for duckweed (Lemna gibba) 0.1444mg/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.

## 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, 43%)

**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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<b>National and or International Regulatory Information</b>	Registered pursuant to the ACVM Act 1997, No. P7583 See <a href="http://www.foodsafety.govt.nz">www.foodsafety.govt.nz</a> for registration conditions Approved pursuant to the HSNO Act 1996, Approval Code HSR007675 See <a href="http://www.epa.govt.nz">www.epa.govt.nz</a> for approval controls.
<b>Packaging and Labelling</b>	HARMFUL * ECOTOXIC - keep out of reach of children

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**Section 16 - Any Other Relevant Information**

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<b>Date of preparation or last revision of SDS</b>	June 2017
<b>Contact Person/Point</b>	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
<b>Revisions Highlighted</b>	5 yearly review carried out.
<b>Other Information</b>	Supersedes SDS issued June 2017 ...End Of MSDS...

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