

1: Identification of the Substance and Supplier

Product Name	BLIZZARD 720SC
Recommended Use	Fungicide
Suppliers Details	Orion AgriScience Ltd Unit 1, 15 Sir Gil Simpson Drive, Harewood, Christchurch, 8053 PO Box 39 071, Harewood, Christchurch, 8545
Web Address	www.orionagriscience.co.nz
Email Address	orders@orionagriscience.co.nz
Telephone Number	(03) 928 2386 (office hours), 0800 674 6627 (free phone)
Emergency Telephone	0800 CHEMCALL (0800 243 622) (24 hours)
National Poison Centre	0800 POISON (0800 764 766) (24 hours)
Date of Issue/Revision	Jan 2025

2: Hazards Identification

Hazard Pictograms	
Signal Words	Danger
Hazard Classes:	Hazard Statements:
Acute inhalation toxicity (Cat. 2)	H330 Fatal if inhaled
Skin Sensitisation (Cat. 1)	H317 May cause an allergic skin reaction
Carcinogenicity (Cat. 2)	H351 Suspected of causing cancer
Specific target organ toxicity (repeated exposure) (Cat. 1)	H372 Causes damage to organs through prolonged or repeated exposure
Serious Eye Damage (Cat. 1)	H318 Causes serious eye damage
Hazardous to the aquatic environment acute (Cat. 1)	H400 Very toxic to aquatic life
Hazardous to the aquatic environment chronic (Cat. 1)	H410 Very toxic to aquatic life with long lasting effects
Hazardous to soil organisms	H421 Toxic to the soil environment
Hazardous to terrestrial vertebrates	H432 Toxic to terrestrial vertebrates
Precautionary Statements:	
Prevention	P103 Read carefully and follow all instructions P201 Obtain special instructions before use P202 Do not handle until all safety precautions have been read and understood P260 Do not breathe dust/fume/gas/mist/vapours/spray P271 Use only outdoors or in a well ventilated area P273 Avoid release to the environment P284 Wear respiratory protection P272 Contaminated work clothing should not be allowed out of the workplace P280 Wear protective gloves/protective clothing/eye protection/face protection P264 Wash hands thoroughly after handling P270 Do not eat, drink or smoke when using this product P391 Collect spillage
Response	Keep out of reach of children. When mixing or applying, wear personal protection as described in section 8. Take all reasonable steps to ensure that this product does not cause any significant adverse effects to the environment beyond the application area. Do not apply directly into or onto water. P304+P340 IF INHALED: Move person to fresh air and keep comfortable for breathing

	<p>P310 Immediately call a poison centre/doctor</p> <p>P308+P313 If exposed or concerned: Get medical advice/attention</p> <p>P314 Get medical advice/attention if you feel unwell</p> <p>P320 Specific treatment is urgent (see section 4)</p> <p>P302+P352 IF ON SKIN: Wash with plenty of water</p> <p>P333+P313 If skin irritation or rash occurs: Get medical advice/attention</p> <p>P321 Specific treatment (See first aid instructions)</p> <p>P362+P364 Take off contaminated clothing and wash it before reuse</p> <p>P318 If exposed or concerned, get medical advice</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing</p> <p>P391 Collect spillage</p> <p>First aid measures described in section 4. Contain and collect spillage for disposal. In an emergency call 111, Police or Fire Brigade. For specialist advice in an emergency only, call 0800 CHEMCALL (0800 243 6225) (24 hrs).</p>
Storage	<p>P403+P233 Store in a well ventilated place. Keep container tightly closed</p> <p>P405 Store locked up</p> <p>Keep out of reach of children</p>
Disposal	<p>P501 Dispose of contents by using it in accordance with this label. Dispose of the container via AgRecovery after triple rinsing (use the rinsate for spraying).</p>

3: Composition/ Information on Ingredients

Ingredient	CAS No	Content (% w/v)
Chlorothalonil (active ingredient)	1897-45-6	72
Ethylene glycol	107-21-1	<10
Other ingredients	Proprietary	Remainder

4: First Aid Measures

If medical advice is needed, have product container or label at hand. If exposed or concerned, get medical advice. For advice call the National Poisons Centre or a Doctor

Ingestion:	If swallowed do not induce vomiting. Seek medical advice immediately. For advice, contact the National Poisons Centre.
Skin Contact:	Immediately flush with water. Remove contaminated clothing and footwear. Wash affected area with soap and water. Seek medical advice if irritation or rash occurs.
Eye Contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if easy to do so. Continue rinsing. Seek medical advice immediately
Inhalation:	Remove to fresh air and keep at rest in a position comfortable for breathing. Seek medical advice immediately
Workplace Facilities:	Hand wash facility. Eye wash facility
Advice to Doctor:	No specific antidote. Treat symptomatically
National Poison Centre	0800 POISON (0800 764 766) (24 hours)

Symptoms of Exposure which could occur if this material is not handled in accordance with instructions:

Ingestion:	Abdominal pain, burning sensation
Skin Contact:	Irritation. Contact may induce an allergic response in susceptible individuals
Eye Contact:	Irritation and serious eye damage
Inhalation:	Irritation, burning sensation.

5: Fire-Fighting Measures

Fire/Explosion Hazard	Non-Flammable
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SAFETY DATA SHEET

BLIZZARD 720SC



HAZCHEM Code	2X
ERP Guide No	34
Extinguishing Media	Water spray, foam, dry chemical or CO2. Avoid water jet.
Fire Fighting Instructions	During a fire, toxic fumes may be emitted. Wear self-contained breathing apparatus. Contain runoff.
Specific Hazards Arising from Fire	No data available

6: Accidental Release Measures

Personal Precautions	Caution: Floors may be slippery if wet. Wear personal protective clothing and equipment as described in section 8. Exclude non-essential people from the area.
Environmental Precautions	Prevent further spillage or leakage. Prevent material from entering drains, waterways, etc.
Clean Up	Absorb spillage with inert material such as spill kit, sand or cat litter. Collect and place in a sealable container for disposal. Wash down affected area with water and detergent. Absorb and collect washings for disposal. Dispose of safely to a suitable landfill.

7: Handling and Storage

Storage:	Keep out of reach of children. Store in the original tightly closed container in a locked and secure area.
Handling and Use:	Refer to Prevention statements in section 2 above. Keep people and animals away from the area while spraying and for the duration of the REI.
REI	Until spray has dried

8: Exposure Controls / Personal Protection

Tolerable Exposure Limit	None established
Workplace Exposure Standards	Ethylene glycol (vapour and mist) 50ppm (127 mg/m3)
Engineering Controls	Select spray application equipment to minimize exposure to operator and bystanders
Personal Protection:	
	The following Standards provide general advice regarding safety clothing and equipment: Respiratory equipment: AS/NZS 1715, Protective Gloves: AS 2161, Occupational Protective Clothing: AS/NZS 4501, Industrial Eye Protection: AS1336 and AS/NZS 1337, Occupational Protective Footwear: AS/NZS2210.
Eye	Safety glasses/goggles (or full face respirator incorporating visor) when mixing or applying
Skin	Cotton overalls snugly fitting at the neck, wrist and ankle, boots and waterproof gloves when mixing and applying
Respiratory	Not required where spray mist is not inhaled. Otherwise, respirator (organic vapour and particulate matter) is required.

Clean protective equipment after use

9: Physical and Chemical Properties

Appearance	Off White to beige opaque Liquid
Odour	Slightly pungent
Odour Threshold	Does not apply
pH	4 - 10 (1% dispersion)
Melting Point/Freezing Point	< 0°C
Boiling Point	> 100°C
Flash Point	Does not apply
Flammability	Does not apply
Upper/Lower Flammability Limits	Does not apply
Vapour Pressure	Does not apply
Vapour Density	Does not apply
Relative Density	1.30 g/mL (approx.)
Solubility in Water	Dispersible

SAFETY DATA SHEET

BLIZZARD 720SC



Partition Coefficient: n-octanol/water	See section 12
Auto ignition Temperature	Does not apply
Decomposition Temperature	Does not apply
Kinematic Viscosity	Does not apply
Particle characteristics	Does not apply

10: Stability and Reactivity

Stability	Stable under normal conditions
Hazardous Reactions	None Expected
Incompatibility	None Known
Hazardous Decomposition Products	None Known

11: Toxicological Information

This section describes effects which could occur if this material is not handled in accordance with this data sheet and label instructions

Acute Oral Toxicity	LD50 > 5000 mg/kg
Acute Dermal Toxicity	LD50 > 5000 mg/kg
Acute Inhalation Toxicity	LD50 > 0.05 mg/L
Skin corrosion/irritation	Information not available
Serious eye damage/Eye irritation	Irritation and serious eye damage
Respiratory or skin sensitisation	Potential contact sensitiser in susceptible individuals
Germ cell mutagenicity	Information not available
Carcinogenicity	In animal feeding studies, rats and mice fed chlorothalonil daily at higher doses over a lifetime developed stomach and kidney tumours.
Reproductive Toxicity	Information not available
Specific Organ Toxicity – Single exposure	Information not available
Specific Organ Toxicity – Repeated exposure	In animal feeding studies, high doses of chlorothalonil and ethylene glycol showed kidney toxicity
Aspiration hazard	Information not available

12: Ecological Information

This section describes effects which could occur if this material is not handled in accordance with this data sheet and label instructions

The following information is presented in respect of the active ingredient:

Ecotoxicity	<ul style="list-style-type: none">Acute Oral LD50 (Mallard ducks) 4640 mg/kgLC50 (96 hr) (Rainbow trout) 47 µg/lLC50 (48 hr) (Daphnia) 70 µg/lEC50 (120 hr) (Algae) 0.21 mg/lNon Toxic to Bees
Persistence/degradability	Biodegradable. DT50 (soil) 3 days (typical)
Bioaccumulative Potential	Octanol-water partition coefficient LogP = 2.94 (moderate)
Soil Mobility	Soil organic carbon water partitioning coefficient Koc = 2632 (slightly mobile)
Environmental Exposure Limit:	None established

13: Disposal Considerations

Product	Dispose of product by using it in accordance with the label. Waste product should be disposed of to a suitable landfill. For disposal of large quantities contact Orion AgriScience Ltd.
Container	Dispose of to a suitable landfill or via AgRecovery. Do not burn. Do not use packaging for any other purpose.

14: Transport Information

Dangerous Goods	
UN Number	2902
Proper Shipping Name	PESTICIDE, LIQUID, TOXIC, N.O.S. (CHLOROTHALONIL 72%)
Class	6.1
Subsidiary Class	None
Packing Group	II
Additional Information	MARINE POLLUTANT
MTQ (Non-Commercial)	250 litres
Passenger Service Vehicle	Maximum quantity 0.1 litre.

15 Regulatory Information

EPA Approval No	HSR007697
ACVM Registration No	P8849
Qualified Person	Required
Certified Handler	Required
Workplace Only	Yes
Tracking	Required
Record Keeping	Required
Site Requirements under EPA Notice and HSWHS Regs:	<ul style="list-style-type: none"> • A hazardous substance location compliance certificate maybe required • Separation distances for class 3 and class 6 substances to protected places and public places is applicable • Fire extinguishers are not required • Signage is required for more than 100 litres • An emergency response plan is required for more than 100 litres • Secondary containment is required for more than 100 litres • Segregation from incompatible substances (classes 1 and 5) is required
Additional Requirements	Refer to NZS 8409:2004 'Management of Agrichemicals', and relevant local and regional council plans

16: Other Information

SDS review date	16 Jan 2025
Glossary	
ADE	Acceptable Daily Exposure – A daily dose, received via any route, below which no adverse effects are expected over a lifetime of exposure
ACVM	Agricultural Compounds and Veterinary Medicines group of the Ministry of Primary Industries
Cat.	GHS category
Ceiling	A concentration that should not be exceeded at any time during any part of the working day
Certified Handler	A qualification issued by a Compliance Certifier to handle and use particularly toxic substances (6.1A and 6.1B)
DT50	Time (days) for 50% reduction in concentration
EC50	Concentration required to produce an effect in 50% of organisms
Environmental Exposure Limit	Maximum concentration limit of a substance in an environmental medium, e.g., water, soil.

SAFETY DATA SHEET

BLIZZARD 720SC



EPA Notice	Hazardous Property Controls Notice 2017
ERP Guide	Dangerous Goods – Initial Emergency Response Guide SNZ HB 76:2008
GHS	Globally harmonized system of classification and labelling of chemicals
Hazardous Substance Location	For locations storing hazard substances of certain classes above threshold quantities
Compliance Certificate	
Hazardous Area	A designated area designed for the presence of flammable substances - Refer AS/NZS 60079.10.1:2009
HAZCHEM Code	Emergency action code for emergency services
HSWHS Regs	Health and Safety at Work (Hazardous Substances) Regulations 2017
LC50	Concentration that will kill 50% of organisms
LD50	Dose that will kill 50% or organisms
MTQ	Maximum Transport Quantity. The maximum amount of dangerous goods that can be transported by road by the user
Notification	Advance notice given to neighbours and other affected parties, of details of proposed application, and other details as described
Octanol-Water Partition Coefficient	The partition coefficient of a substance between n-octanol and water, used as the Logarithm base 10 form, as an indicator that a substance may bioaccumulate
PDE	Permitted Daily Exposure - A daily dose below which no adverse effects are expected over a lifetime of exposure
Protected Place	Residential properties, schools, hospitals, kindys, factories, shops, warehouses, etc., and other places where people assemble
Public Place	A place frequented by the public, including roads (does not include private property)
Qualified Person	A requirement for the loader, contractor or person applying the product to hold a qualification such as a GROWSAFE Certificate, Unit Standard 21563, etc.
Record Keeping	Includes a spray diary or other record of application
REI	Restricted Entry Interval – The length of time after application before entry into the treated area is permitted without the use of protective equipment. For indoor environments, this time period commences once ventilation after treatment begins.
Segregation	Certain classes of substances must not be in contact with, and must be stored separately from, certain other classes as specified in HSWHS Regs
Separation Distances	The distances specified in Part 11 and Part 13 of HSWHS Regs between storage and/or use of hazardous substances and protected places and/or public places
Signage	Positioned at entrances to commercial premises providing information on the hazardous substances present
Soil Adsorption Coefficient (Kd)	The ratio of the concentrations of a substance adsorbed onto a solid sorbent to that dissolved in a liquid phase. The higher the value the less mobile the chemical is in soil
Soil Organic Carbon-Water Partitioning Coefficient (Koc)	The ratio of the mass of a chemical that is adsorbed in the soil per unit mass of organic carbon in the soil. The higher the value the less mobile the chemical is in soil
STEL	Short term exposure level – 15 minute time weighted average
Tolerable Exposure Limit	Maximum concentration limit of a substance above which persons must not be exposed
Tracking	For some particularly hazardous substances, a record must be kept of the transport, storage, sale and use of the product
TWA	Time weighted average calculated over an 8 hour working day
Workplace Exposure Standard	An occupational health standard limiting concentrations of specified substances to which persons are exposed
Workplace Only	A product that is restricted to a workplace only and under the supervision of a certified handler

SAFETY DATA SHEET

BLIZZARD 720SC



Please Note

Users must ensure that the most up to date version of this safety data sheet is used.

This Safety Data Sheet summarises information on this product, and how to safely handle and use the product. Each user should familiarise themselves with the product label and Safety Data Sheet, and consider the information in the context of how the product will be handled and used, including in conjunction with other products. Orion AgriScience Ltd assumes no responsibility for the accuracy, completeness or suitability of this information. The user is responsible for determining the suitability and accuracy of this information for their particular purposes.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.