



**SAFETY DATA SHEET**

**HORTCARE™ BACTUR™**

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND COMPANY**

**1.1 Identifiers**

Product name: **HORTCARE™ BACTUR™**  
Other Name(s): Water dispersible granule containing 32000 IU/mg *Bacillus thuringiensis* subspecies *kurstaki* (serotype 3A, 3b, strain HD 263) for biocidal action against lepidopterous larvae (moths, butterflies).

**1.2 Recommended use of the chemical and restrictions on use**

Product Use: Biological insecticide

**1.3 Supplier contact details:**

Company name: Grosafe Chemicals Limited  
Address: 20 Jean Batten Drive Mt Maunganui, 3116  
Telephone: 0800 220 002  
Email: [info@grosafe.co.nz](mailto:info@grosafe.co.nz)

**Emergency telephone number** 0800 CHEMCALL (0800 243 622)

**SECTION 2: HAZARD IDENTIFICATION**

**2.1 Classification of the Hazardous Chemical**

Hazardous substance according to Hazardous Substances and New Organisms (HSNO) Act 1996  
HSNO Substance Approval: HSR000711  
Classifications: 6.3B, 6.4A, 9.1D

**2.2 Label elements:**

**Pictograms:**



**Signal Word:** WARNING

**Hazard statements:**

H316 Causes mild skin irritation.  
H319 Causes serious eye irritation.  
H402 Harmful to aquatic life.

**Additional labelling statements required under Hazardous Substances (Labelling) Notice 2017**

Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area.

Do not apply directly into or onto water.

**Precautionary statements:***Prevention*

- P103 Read label before use.  
 P264 Wash hands thoroughly after handling.  
 P273 Avoid release to the environment.  
 P280 Wear eye or face protection.

*Response*

- P332 + P313 If skin irritation occurs: Get medical advice.  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present. Continue rinsing.  
 P337 + P313 If eye irritation persists: Get medical advice.

*Storage*

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*Disposal*

- P501 Dispose of contents/container in accordance with local regulations.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Ingredients	CAS	Proportion % w/w
<i>Bacillus thuringiensis</i> subspecies <i>kurstaki</i> (serotype 3A, 3b, strain HD 263)	68038-71-1	64 – 65*
Other ingredients**	Trade secret	balance

This is a commercial product whose exact ratio of components may vary slightly.

\*Contains 32,000 international units (IU)/mg

\*\*Do not affect the hazardous classifications of the product.

**SECTION 4: FIRST AID MEASURES****4.1 Description of first aid measures****General Information:**

For advice call the National Poison Centre, telephone 0800 POISON [0800 764 766]. Have label or Safety Data Sheet at hand.

**Ingestion:** If swallowed, rinse mouth with water. Call the NATIONAL POISONS CENTRE or doctor for advice if person feels unwell.

**Skin Contact:** Remove contaminated clothing and wash skin with plenty of soap and water. Get medical advice if irritation persists.

**Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice if irritation persists.

**Inhalation:** Remove person to fresh air and keep at rest in a position comfortable for breathing. Call the NATIONAL POISONS CENTRE or doctor for advice if person feels unwell.

**4.2 Symptoms caused by exposure**

Unlikely to cause harmful effects under normal conditions of handling and use.

**4.3 Medical attention and special treatment**

Treat symptomatically.

## SECTION 5: FIRE FIGHTING MEASURES

### 5.1 Suitable extinguishing media

Use water spray or fog and foam. Contain extinguishing media to prevent runoff into drains, sewers, waterways.

### 5.2 Specific hazards arising from the chemical

Fire decomposition products may be harmful and/or irritating if inhaled.

Evacuate people to safe area upwind of fire.

### 5.3 Special protective equipment and precautions for fire fighters

Wear full personal protective equipment including with self-contained breathing apparatus (SCBA).

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Have this SDS available. In the event of a spill, wear appropriate protective clothing, eye and skin protection. Wash contaminated personal protective equipment and clothing, and dry before re-use.

### 6.2 Environmental precautions

Prevent spillage from entering drains or waterways. If contamination of drains, streams, watercourses, etc. is unavoidable, warn the local water authority.

### 6.3 Methods and materials for containment and cleaning up

Contain spilled material. Sweep up granules and collect into labelled container that can be sealed. Reuse if possible or dispose of safely. For small liquid spills, use absorbent material and recover into labelled drums that can be sealed for safe disposal. For large liquid spills, recover liquid into labelled containers then absorb remaining liquid and transfer to drums for disposal. Clean area with water and detergent.

Dispose of contaminated materials to approved landfill in accordance with local regulations.

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Read the label before use. Do not apply into or onto water.

Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area.

Avoid contact with skin and eyes. Wear personal protective equipment such as coat/trouser (overalls), boots, gloves and eye protection.

Wash hands and exposed skin with soap and water after handling and before rest or meal breaks.

Do not use spray equipment contaminated with this product for any other purpose unless first thoroughly cleaned with a suitable cleaning detergent.

### 7.2 Conditions for safe storage

Store securely in the closed original packaging out of reach of children and in a dry, cool, well-ventilated area and out of direct sunlight. Keep away from sources of heat, food, drink and animal feedstuffs.

## SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

### 8.1 Control parameters – exposure standards, biological monitoring

Ingredient	TWA (mg/m <sup>3</sup> )	STEL (mg/m <sup>3</sup> )
Particulates	10 3 (respirable only)	

## 8.2 Engineering controls

Use in well-ventilated area or outdoors.

## 8.3 Personal protective equipment (PPE)

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/Face Protection:** Wear glasses with side shields or chemical splash goggles if eye contact is possible.

**Skin Protection:** Wear impervious gloves and overalls. For overhead spray exposure, wear chemical resistant headgear.

**Respirator:** Use outdoors in well-ventilated area or use local exhaust ventilation. Where product is being sprayed and a mist could be produced a respirator should be worn. It should be fitted with a cartridge, suitable for particulates.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White to grey granule
Odour	Slight
Odour threshold	Not known
pH	5.0 – 7.0 (as 1% aqueous suspension)
Melting/Freezing Point	No data available
Boiling Point /Range	No data available
Flash point	Non flammable
Flammability (solid, gas)	Not applicable
Vapour Pressure	No data available
Vapour density	No data available
Specific gravity/bulk density	0.70 – 0.75 g/cc
Solubility	Dispersible in water
Partition Co-efficient n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	Not applicable

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

This product is unlikely to react or decompose under normal storage conditions.

### 10.2 Chemical stability

Stable under normal temperatures and pressure for storage and use.

### 10.3 Conditions to Avoid

Avoid storage in direct sunlight or exposure to heat.

### 10.4 Incompatible materials and possible hazardous reactions

None identified.

### 10.5 Hazardous decomposition products

**Fire Decomposition:** Carbon dioxide, carbon monoxide, smoke and other unspecified compounds.

### 10.6 Polymerisation

Not known to occur.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Health hazard information

The product is classified for health hazards according to an assessment of information on product.

### 11.2 Toxicological information

Acute toxicity:	Product is not classified.
Aspiration hazard:	Product contains no components with aspiration hazard.
Respiratory irritation:	Dust may be slightly irritating to throat.
Skin corrosion/irritation	Mild skin irritant.
Serious eye damage/irritation	Skin irritant.
Respiratory or skin sensitisation	Not classified.
Germ cell mutagenicity:	No ingredients in product identified as presumed or suspected mutagens.
Carcinogenicity	No ingredients in product identified as presumed or suspected carcinogens.
Reproductive toxicity	Product is not classified.
Specific target organ toxicity – single/repeated exposure	Product is not classified.
Narcotic effects	Product contains no ingredient identified as causing narcotic effects.

### 11.3 Toxicological data:

Product	Oral, rat LD <sub>50</sub> >5050 mg/kg b.w Dermal, rat LD <sub>50</sub> >2020 mg/kg b.w.
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## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Ecotoxicity

This product is classified as harmful to aquatic life. *Bacillus thuringiensis* subspecies *kurstaki* (serotype 3A, 3b, strain HD 263) has biocidal action specific against lepidopterous larvae (moths, butterflies).

### 12.2 Environmental Fate

**Breakdown in soil and groundwater:** Information not available.

**Bioaccumulation:** Information not available.

**Partition coefficient (octanol/water):** Not available.

**Soil mobility:** Information not available.

**12.3 Ecotoxicity data:** Information not available.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Product Disposal

Refer to product label. If possible, dispose of by using according to the label. Otherwise dispose of to an approved landfill in accordance with local regulations.

### 13.2 Container Disposal

Refer to product label. Do not use packaging for storage of other products. Empty packaging should be disposed of to an approved recycler or crushed and sent to approved landfill.

## SECTION 14: TRANSPORT INFORMATION

### Road and Rail Transport:

Not classified as Dangerous Good according to NZS5433 Transport of Dangerous Goods on Land

**Marine Transport (IMO/IMDG):**

Not classified as Dangerous Good by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

**Air Transport (ICAO/IATA):**

Not classified as Dangerous Good by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulation for transport by air.

**UN Number:** Non regulated

**UN Proper Shipping Name:**

**Transport hazard class(es)**

**Packing Group:**

**HAZCHEM:**

**Special Precautions for User:**

**IMDG Marine pollutant:**

**Transport in Bulk:**

## SECTION 15: REGULATORY INFORMATION

### 15.1 HSNO Act 1996

Hazardous substance according to Hazardous Substances (Classification) Notice 2017.

**Approved substance number:** HSR000711

**Hazardous classifications:** 6.3B, 6.4A, 9.1D

**Controls:** Refer to control on [www.epa.govt.nz](http://www.epa.govt.nz) for complete wording for variation Controls.  
77A Do not apply onto or into water.

**Additional information:** Refer to HS Notices ([www.epa.govt.nz](http://www.epa.govt.nz)) and HSW HS Regulations ([www.worksafe.govt.nz](http://www.worksafe.govt.nz))

### 15.2 ACVM Act 1997

**Registration number:** P5017 HORTCARE™ BACTUR™

Refer to [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz) for registration conditions.

## SECTION 16: OTHER INFORMATION

### 16.1 Date of preparation or last revision of SDS

**SDS issued** 29<sup>th</sup> June 2020

**SDS supersedes** March 2017

**Reason issued** Review of product information and update SDS template

### 16.2 ABBREVIATIONS

<b>ADI</b>	Acceptable Daily Intakes
<b>CAS number</b>	Chemical Abstracts Service Registry Number
<b>CCID</b>	Chemical Classification Identification Database
<b>EPA</b>	Environmental Protection Authority
<b>ErC<sub>50</sub></b>	Half maximal Effective Concentration
<b>GHS</b>	Globally Harmonized System of Classification and Labelling of Chemicals
<b>Hazchem Code</b>	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
<b>HSNO</b>	Hazardous Substances and New Organisms
<b>HS</b>	Health and Safety
<b>HSR</b>	Hazardous Substances Register

<b>IARC</b>	International Agency for Research on Cancer
<b>LC<sub>50</sub></b>	Median Lethal Concentration
<b>LD<sub>50</sub></b>	Median Lethal Dose
<b>SDS</b>	Safety Data Sheets
<b>NOAEL</b>	No Observable Adverse Effect Level
<b>NOEL</b>	No Observable Effect Level
<b>NOS</b>	Not otherwise specified
<b>STEL</b>	Short Term Exposure Limit
<b>SWA</b>	Safety Work Australia
<b>TWA</b>	Time-Weighted Average
<b>UN Number</b>	United Nations Number

### **16.3 REFERENCES**

EPA CCID and Approved Substance databases  
PPDB- Pesticides Properties DataBase

### **16.4 OTHER**

HORTCARE™ and BACTUR™ are trademarks of Grosafe Chemicals Ltd

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End of Safety Data Sheet