

1. Identification of the Substance/Mixture and Supplier.															
Product name:	Flint														
Recommended Use:	Fungicide for control of diseases in apples, pears, pumpkins and kiwifruit.														
Company details:	Bayer New Zealand Limited, 3 Argus Place, Glenfield, Auckland, New Zealand.														
Telephone:	0800 428 246														
Facsimile:	09 441 8645														
Emergency telephone:	0800 734 607 Orica SH&E Shared services (24hr)														
2. Hazards Identification.															
Hazard classification:	Classified as hazardous according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.														
Classification and type:	HSNO Class* 6.5B 6.9B 9.1A Harmful – may cause sensitisation from prolonged skin contact. Harmful – presumed to/may cause organ damage from repeated oral exposure at high doses. Toxic to aquatic organisms.														
Risk & Safety Phrases:	R40, R43, R50														
3. Composition/Information on Ingredients.															
Common name:	Trifloxystrobin														
Chemical Identity of Ingredients:	Mixture: <table border="1"> <thead> <tr> <th>Ingredient</th> <th>CAS No.</th> <th>Content (%w/v)</th> </tr> </thead> <tbody> <tr> <td>Trifloxystrobin</td> <td>141517-21-7</td> <td>50.0</td> </tr> <tr> <td>Diatomaceous earth (amorphous silica)</td> <td>61790-53-2</td> <td>10.0</td> </tr> <tr> <td>Other ingredients determined not to be hazardous</td> <td></td> <td>40.0</td> </tr> </tbody> </table>			Ingredient	CAS No.	Content (%w/v)	Trifloxystrobin	141517-21-7	50.0	Diatomaceous earth (amorphous silica)	61790-53-2	10.0	Other ingredients determined not to be hazardous		40.0
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4. First Aid Measures:

Description of necessary first aid measures:

In case of poisoning by any exposure route contact the National Poisons and Hazardous Chemicals Information Centre, PO Box 913, Dunedin. Phone 0800 764 766, 0800 POISON.

Workplace facilities:

No specific facilities required. Standard emergency equipment must be available.

Hygiene Practices:

Avoid contact with skin and eyes and inhalation of concentration or spray mist. When mixing or applying, wear protective clothing, including face shield, impervious gloves and footwear. If clothing becomes contaminated with product, remove clothing immediately. DO NOT eat, drink or smoke while using. Wash hands and exposed skin thoroughly with soap and water before meals and after work. Wash protective clothing daily after work.

Poisoning symptoms:

No case of human poisoning due to this product is on record.

Eye:

If product gets in eyes wash it out immediately with water.

Skin:

If skin contact occurs remove contaminated clothing and wash affected areas thoroughly with soap and water.

Inhaled:

Move person to fresh air and keep at rest until recovered. Apply artificial respiration if necessary.

5. Fire-Fighting Measures.

Fire Hazard Properties:

In a fire, formation of hydrogen cyanide, hydrogen fluoride, carbon monoxide and nitrogen oxides can be expected.

Extinguishing media:

Water spray, foam, dry chemical, carbon dioxide, sand

Recommended Protective clothing:

When fighting a major fire wear an air-supplied respirator. Wear protective equipment.

6. Accidental Release Measures.

Personal Precautions:	Emergency Procedures: Ensure suitable personal protection during removal of spillages. This means wearing eye protection, chemically resistant gloves, boots and overalls.
Environmental Precautions:	Washings must be prevented from entering surface water drains or waterways.
Procedure for spill:	Keep all bystanders away. Wear goggles, half face-piece respirator with combined dust and vapour cartridge, full length clothing and PVC gloves. Contaminated material must be disposed of in accordance with all local authority requirements. <ul style="list-style-type: none"> • For quantities up to 50kg of product bury in a secure approved landfill site. • For quantities greater than 50kg seek advice from the manufacturer (use emergency contact number) before attempting disposal. Contain in a secure location until disposal method is established. Decontaminate the spill area with detergent and water and rinse with the smallest volume of water practicable.
Procedure for Disposal:	a) Triple rinsing or preferably pressure rinsing containers with water. Add the rinsings to the spray tank. DO NOT dispose of undiluted chemicals on site. b) Burning of empty containers if circumstances, especially wind direction, permit is an alternative method. Do not burn unless in a suitable incinerator. c) Product or unused spray mix should be disposed of according to label instructions.

7. Handling and Storage.

Handling Practices:	Avoid contact with skin and eyes and inhalation of concentrate or spray mist. When using, do not eat, drink or smoke. Wash face and hands before eating, drinking or smoking.
Conditions for Safe Storage and Store Sire Requirements:	Store in a cool, dry, well ventilated place and protect from sunlight. Storage temperature >40°C.
Packaging:	Store in original container, tightly closed, away from foodstuffs.

8. Exposure Control/Personal Protection

Exposure standards:	Diatomaceous earth (amorphous silica) TWA: 10mg/m ³
Engineering measures:	Use in well ventilated areas.
Respiratory protection:	Where insufficient ventilation use suitable respiratory protection. Wear suitable protective gloves (e.g. Polyvinyl chloride – PVC). After contamination with product change the gloves immediately.
Eye protection:	Chemical goggles/face protection.
Other protective equipment:	Wear suitable protective clothing.
Hygiene measures:	Avoid inhaling aerosols and vapours. Avoid contact with eyes and skin. Store work clothes and street clothes separately. Wash hand before breaks and at the end of work. Change contaminated protective clothing. Keep away from food, drinks and tobacco.

9. Physical and Chemical Properties

Form:	Granule
Colour:	Light brown
Odour:	Slight characteristic
Solubility in water:	Disperses in water
pH:	8.5 to 10.5 (1% in water)
Flash point:	Not applicable
Bulk Density:	0.597 g/cm ³
Ignition temperature:	Not applicable
Partition coefficient (octanol/water)	<i>Trifloxystrobin</i> : Log P _{ow} = 4.5 at 25°C
OTHER PROPERTIES	

10. Stability and Reactivity

Chemical stability :	Stable under normal conditions of use.
Conditions to avoid:	None known
Incompatible materials:	Avoid strong acids and strong alkalis.
Hazardous decomposition products:	In a fire, formation of hydrogen cyanide, hydrogen fluoride, carbon monoxide and nitrogen oxides can be expected.

11. Toxicological Information

Acute oral toxicity:	LD ₅₀ : rat >2,00mg/kg
Acute dermal toxicity:	LD ₅₀ : rat >2,000mg/kg
Skin irritation:	Slightly irritating (rabbit)
Irritation of mucous membranes	Slightly irritating (rabbit)
Sensitization:	Non-sensitising in Buehler test (guinea pig) Sensitising in Maximisation test (guinea pig)

12. Ecological Information

Acute fish toxicity:	<u>Flint 500WG:</u> LC ₅₀ : (96h) trout (<i>Oncorhynchus mykiss</i>) 0.036 mg/L
Toxicity for daphnia:	EC ₅₀ : (48h) Water flea (<i>Daphnia magna</i>) 0.01mg/L
Toxicity for Algae:	EC ₅₀ : (72h) green alga (<i>Selenastrum capricornutum</i>) 0.15mg/L

13. Disposal Considerations.

Product Disposal:	Dispose of this product only by using according to the label, or at an approved landfill or other approved facility.
Container Disposal:	Triple rinse the empty container adding rinseate to the spray tank. Recycle if possible. If allowed under local authority, burn if circumstances, especially wind direction permit, otherwise crush and bury in an approved local authority facility. Do not use container for any other purpose.

14. Transportation Information.

Rail/Road (RID/ADR)	UN 3077 Environmentally Hazardous Substance, Solid, N.O.S, (trifloxystrobin) Class 9, Packing Group: III Hazchem 2X.
Sea (IMDG-Code)	UN 3077 Environmentally Hazardous Substance, Solid, N.O.S, (trifloxystrobin) Class 9, Packing Group: III Hazchem 2X. Marine Pollutant.
Air (ICAO/IATA)	UN 3077 Environmentally Hazardous Substance, Solid, N.O.S, (trifloxystrobin) Class 9, Packing Group: III Hazchem 2X.

15. Regulatory Information.	
HSNO Approval Number:	HSR000642
HSNO Controls (inc. Tracking):	See www.ermanz.govt.nz for controls.
Approved Handlers required:	Approved Handlers required at time of use.
ACVM Registration:	P 5112
ACVM Controls:	See www.nzfsa.govt.nz/acvm for registration conditions.
16. Other Information.	
6.5B Harmful – may cause sensitisation from prolonged skin contact. 6.9B Harmful – presumed to/may cause organ damage from repeated oral exposure at high doses. 9.1A Toxic to aquatic organisms.	
R40 Limited evidence of a carcinogenic effect. R43 May cause sensitisation by skin contact. R50 Very toxic to aquatic organisms.	

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The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe products in terms of their safety requirements. The above details do not imply any guarantee concerning composition, properties or performance of the product.