

## SAFETY DATA SHEET

### REPLY 200™

#### SECTION 1: Identification

<b>Product name:</b>	REPLY 200
<b>Chemical Name:</b>	methyl 2-(4-methoxy-6-methyl-1,3,5-triazin-2-ylcarbamoylsulfamoyl)benzoate
<b>Recommended Use:</b>	Non-selective herbicide for the control of gorse and other scrub weeds in pasture and waste areas
<b>Restriction of use:</b>	Refer to section 15
<b>Company:</b>	Grosafe Chemicals Ltd.
<b>Address:</b>	20 Jean Batten Drive, Mt Maunganui. (P.O. Box 14450 Tauranga, 3143)
<b>Email:</b>	info@grosafe.co.nz
<b>Telephone:</b>	0800 220 002
<b>Emergency Telephone Numbers:</b>	0800 CHEMCALL (0800 243622) The National Poisons Centre, 0800 POSION (0800 764 766)
<b>Date of Issue:</b>	October 2022

#### SECTION 2: Hazards Identification

This substance is hazardous according to the Hazardous Substances (Hazard Classification) Notice 2020

EPA Approval No: HSR000245

Pictograms



Signal word: **WARNING**

HSNO Classification	Hazard Code	Hazard Statement
Eye Irritant 2	H319	Causes serious eye irritation
Aquatic Acute 1	H400	Very toxic to aquatic life.
Aquatic Chronic 1	H410	Very toxic to aquatic life with long
Hazardous to soil organisms	H422	Hazardous to soil organisms
<b>Prevention code</b> P264	<b>Prevention Statement</b> Wear eye/face protection	

**Response code**  
P305+P351+P338

P377+P313  
P391

**Storage Code**  
None

**Disposal Code**  
P501

**Response Statement**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical attention.  
Collect spillage.

**Storage Statement**  
None

**Disposal statement**

Wherever possible completely use material in accordance with label directions. Dispose of unwanted contents in accordance with local and national regulations using a licensed waste disposal company. Triple rinse containers and add rinsate to spray tank before puncturing and offering for recycling or landfill. DO not allow product or containers to enter waterways. Do not burn product or containers.

### SECTION 3: Composition / information on ingredients

Ingredients	CAS Number	Content (% w/w)
Metsulfuron methyl	74223-64-6	20%
Non-hazardous ingredients		To balance

### SECTION 4: First Aid Measures

**Routes of exposure:**

<b>If swallowed</b>	Unlikely route of exposure. No specific treatment is indicated.
<b>If on Skin</b>	Unlikely route of exposure. No specific treatment is indicated.
<b>If in Eyes</b>	Rinse cautiously with water for 15 minutes. If eye irritation persists: Get medical advice.
<b>If inhaled</b>	Unlikely route of exposure. No specific treatment is indicated.

**Most important symptoms and effects, both acute and delayed:**

**If in eyes:** Causes eye irritation.

**Note to physician:** Treat symptomatically.

### SECTION 5: Fire Fighting Measures

<b>Hazard type</b>	Non-flammable
<b>Fire/explosion Hazard</b>	Like most organic powders or crystals, under severe dusting conditions, this material may form explosive mixtures in air.
<b>Polymerisation</b>	Not known to occur.
<b>Hazards from combustion products</b>	If involved in a major fire, could evolve oxides of carbon, hydrogen, nitrogen, or sulphur.
<b>Suitable extinguishing media</b>	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.
<b>Precautions for firefighters and special protective clothing</b>	Full protective clothing and self-contained breathing apparatus.
<b>Specific Methods</b>	Keep up wind. Do not allow washings to reach sewage or effluent systems.
<b>HAZCHEM CODE</b>	2X

## SECTION 6: Accidental Release Measures

**Wear personal protective equipment (as detailed in Section 8).**

**Evacuate the area of unnecessary personnel.**

### **Environmental precautions:**

Prevent further leakage or spillage if safe to do so. Do not allow into any sewer, drains or body of water. Prevent entry of chemical or used/damaged containers into sewers, drains, streams, or waterways. If necessary, inform the police and the Regional Council.

### **Methods and material for containment and cleaning up:**

Shovel or sweep up. DO NOT flush with water. Place material in a suitably labelled container for disposal. Wash contaminated areas with water and detergent. Prevent liquid from entering sewers, waterways, or low areas. Soak up with sawdust, sand, or other absorbent material. Shovel or sweep up. Never return to container for reuse. (See section 13 for disposal instructions.)

**This product is a herbicide and spills can damage crops, pastures, and desirable vegetation.**

If spill area is near trees or valuable plants remove the top 50 mm soil after product retrieval and dispose as per local regulations.

## SECTION 7: Handling and Storage

### **Precautions for Handling:**

- Keep out of reach of children.
- Read label before use.
- Avoid unintended release to the environment.
- Use personal protective equipment as required.

### **Precautions for Storage:**

Keep out of reach of children and animals. Store in tightly closed, original container in a cool, dry, well-ventilated area, out of direct sunlight. Do not store with food, feedstuffs, fertilisers, and seeds. Storage must be in accordance with NZS 8409 Management of Agrichemicals.

This substance is subject to a requirement for an emergency management response plan, secondary containment and signage, whenever it is held in quantities of 100 kg or more, either alone or in aggregate with other hazardous substances. See Hazardous Substances (Emergency Management) Regulations 25 to 42.

## SECTION 8: Exposure Control / Personal Protection

### **Workplace exposure standards (provide for guidance only)**

<b>Substance</b>	<b>TWA ppm mg/m<sup>3</sup></b>	<b>STEL ppm mg/m<sup>3</sup></b>
<b>No exposure limits have been set for any ingredient.</b>	-	-

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES- Product Name: Phoenix Fungicide Issued by: Technical Compliance Consultants (NZ) Ltd Date of SDS: 28 May 2019 Tel: 64 9 475 5240 www.techcomp.co.nz Page 4 TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices NOV 2017 9TH EDITION.

### **Engineering controls**

Ensure adequate ventilation, especially in confined areas. Keep container tightly closed.

### Personal Protective Equipment

<b>Eyes</b>	Safety goggles or face shield. Facilities storing or utilizing this material should be equipped with an eyewash facility.
<b>General</b>	Do not eat, drink, or smoke when handling this product. Wash hands and exposed skin with soap and water after handling.

## SECTION 9: Physical and Chemical Properties

<b>Appearance</b>	Brown granules
<b>Odour</b>	No odour
<b>Odour Threshold</b>	Not applicable
<b>pH</b>	4.0 – 7.0
<b>Melting point/freezing point</b>	Melting point 162°C (metsulfuron-methyl)
<b>Boiling point</b>	Not applicable
<b>Flash point</b>	Not applicable
<b>Flammability</b>	Not applicable
<b>Upper and lower flammability or explosive limits</b>	Not applicable
<b>Vapour pressure</b>	1.40 X 10 <sup>-08</sup> mPa (20°C, metsulfuron methyl)
<b>Vapour density</b>	Not applicable
<b>Bulk density</b>	0.53 @ 25°C
<b>Solubility</b>	Dispersible
<b>Partition Coefficient: n-octanol/water</b>	Log P is -1.87 (pH7, 20°C, metsulfuron methyl)
<b>Auto-ignition temperature</b>	Not applicable
<b>Decomposition temperature</b>	164°C
<b>Kinematic viscosity</b>	Not applicable
<b>Particle characteristics</b>	May cause dust explosion

## SECTION 10: Stability and Reactivity

<b>Stability of substance</b>	Stable under normal storage conditions.
<b>Conditions to avoid</b>	Avoid direct sources of heat.
<b>Incompatible materials</b>	Acids, alkalis, oxidizing agents.
<b>Hazardous decomposition products</b>	If involved in fire, oxides of carbon, hydrogen, nitrogen, or sulphur may be formed.

## SECTION 11: Toxicological Information

<b>Acute toxicity - oral</b>	LD <sub>50</sub> (rat) >5000 mg/kg (metsulfuron-methyl)
<b>Acute toxicity - dermal</b>	LD <sub>50</sub> (rabbit) >2000 mg/kg (metsulfuron-methyl)
<b>Acute toxicity - inhalation</b>	LC <sub>50</sub> (rat) (4hr) >5 mg/l (metsulfuron-methyl)
<b>Skin corrosion/irritation</b>	Not applicable.
<b>Serious eye damage/eye irritation</b>	Causes eye irritation (rabbit): Mild to moderate corneal irritation in unwashed eyes and mild conjunctiva irritation in unwashed eyes. All effects reversed in 7 days.

<b>Respiratory or skin sensitization</b>	Not applicable
<b>Germ cell mutagenicity</b>	Not applicable
<b>Carcinogenicity</b>	Not applicable
<b>Reproductive toxicity</b>	Not applicable
<b>Specific target organ toxicity – single exposure</b>	Not applicable
<b>Specific target organ toxicity – repeated exposure</b>	Not applicable
<b>Aspiration hazard</b>	Not applicable

## SECTION 12: Ecological Information

### Ecotoxicity (metsulfuron-methyl)

<b>Fish</b>	<i>Poecilia reticulata</i> (Guppy) LC50 >110 mg/L 96 hour
<b>Crustaceans</b>	<i>Daphnia magna</i> EC50 >43.1 mg/L 48 hour
<b>Aquatic plants</b>	<i>Lemna gibba</i> EC50 0.00036 mg/L 7 day (biomass)
<b>Algae</b>	<i>Anabaena flos-aquae</i> EC50 0.113 mg/L 72 hour (growth rate)
<b>Birds</b>	<i>Anas platyrhynchos</i> (Mallard Duck) Acute: LD50 >2510 mg/kg Dietary: LC50 (8d) Bobwhite quail & Mallard Duck >5,620mg/kg
<b>Earthworm</b>	Earthworm acute LC50 >1000 mg/kg 14 days
<b>Bees</b>	Bees LD50 (oral) >44.3 µg/bee; (LD50 contact) >50 µg/bee
<b>Persistence and degradability</b>	Non-persistent. DT50 (typical) 10 days. Metsulfuron-methyl is not rapidly degradable.
<b>Potential to bioaccumulate</b>	Metsulfuron-methyl is not bioaccumulative. log Kow = 0.014
<b>Mobility in soil</b>	Metsulfuron-methyl is highly mobile in soils.
<b>Other adverse effects</b>	Metsulfuron methyl is a herbicide and may damage or kill desirable plants.

## SECTION 13: Disposal Considerations

**Product:** Dispose of this product only by using according to the label, or through the Agrecovery® Chemical Recovery service or other licensed hazardous waste disposal facility.

**Container:** Triple rinse empty container and add rinsate to spray tank. Submit clean empty container to an Agrecovery® depot for recycling. Alternatively, puncture and dispose of at an approved landfill.

Avoid contamination of any water supply with product or empty container



**Precautions:** Do not allow product or empty container to enter waterways.

**Disposal methods to avoid.** Do not burn empty container. Do not allow product or empty container to enter waterways.

## SECTION 14: Transport Information

This product is classified as a **Dangerous Good** for transport in NZ; NZS 5433



### Road and Rail Transport

**UN No** 3077  
**Class-primary** 9  
**Packing group** III  
**Proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Metsulfuron-methyl)

### Air Transport

**UN No** 3077  
**Class-primary** 9  
**Packing group** III  
**Proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Metsulfuron-methyl)

### Marine Transport

**UN No** 3077  
**Class-primary** 9  
**Packing group** III  
**Proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Metsulfuron-methyl)  
**Marine Pollutant** YES

### Special Provisions:

If the products individual container is below 5kg it can be transported as a non-DG as long as the product packaging is still labelled as per DG requirements and the driver is given safety information in accordance with Chapter 3.4 of the UNRTDG.

## SECTION 15: Regulatory Information

This substance is hazardous according to the *Hazardous Substances (Hazard Classification) Notice 2020*

**HSNO Classification:** Eye Irritant 2, Aquatic Acute 1, Aquatic Chronic 1, Hazardous to soil organisms

HSW (HS) Regulations 2017	Trigger Quantity
<b>Certified Handler</b>	Not required
<b>Location Certificate</b>	Not required
<b>Signage Trigger Quantity (Schedule 3)</b>	100 kg
<b>Emergency Response Plan (Schedule 5)</b>	100 kg
<b>Secondary Containment (Schedule 16)</b>	100 kg

<b>Tracking (Schedule 26)</b>	Not required
<b>Controls</b>	
<b>Record Keeping</b>	If 3 kg or more of the substance is applied within 24 hours, in a place where the substance is likely to enter air or water and leave the application area, a PCBU with management or control of the substance must ensure that a written record is kept of each application of the substance. Refer HPC Section 48 (3) for record requirements.
<b>Qualifications</b>	Anyone who mixes, loads, or applies this product, either by air or ground based methods, is required to be suitably qualified, or must receive guidance and, if required, assistance from a suitably qualified person. Refer to Schedule 10 of the Hazardous Substances (Hazardous Property Controls) Notice 2017 for a list of suitable qualifications.
<b>HSNO Additional controls</b>	Aquatic herbicides – annual reporting requirements Aquatic herbicides - incident reporting requirements Aquatic herbicides – notification requirements Aquatic herbicides - requirements for protection of aquatic farms Aquatic herbicides - requirements relating to static water bodies Aquatic herbicides – restrictions on nonylphenol ethoxylates Aquatic herbicides - signage requirements Permissions - requirements relating to permissions from the Authority under section 95A of the HSNO Act 1996 Refer EPA website <a href="http://www.epa.govt.nz">www.epa.govt.nz</a> for controls details - HSR000245
<b>Tolerable Exposure Level (TEL)</b>	A TEL drinking water has been set for metsulfuron-methyl. The TEL value is 0.04 mg/L.
<b>Environmental Exposure Level (EEL)</b>	An EEL water has been set for metsulfuron-methyl. The EEL value is 0.0084 µg/L
<b>ACVM Approval Number</b>	P007237. See <a href="http://www.foodsaftey.govt.nz">www.foodsaftey.govt.nz</a> for registration conditions

## SECTION 16: Other Information

### Glossary

ACVM	Agricultural Compounds and Veterinary Medicines Act 1997
EC50	Median effective concentration
EEL	Environmental exposure limit
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms Act 1996
HSW	Health and Safety at Work Act 2015
HSW (HS) Regulations	Health and Safety at Work (Hazardous Substances) Regulations 2017
LC50	Lethal concentration that will kill 50% of the test organism
LD50	Lethal dose to kill 50% of the test organism
WES	Workplace exposure Limit

## References

1. EPA Hazardous substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices Nov 2017 edition
3. Assigning a hazardous substance to a HSNO approval (Aug 2013)
4. Transport of Dangerous Goods ON Land NZS 5433:2012
5. HSW (Hazardous Substances) Regulations 2017

## Disclaimer

This document has been issued by Grosafe Chemicals Limited and serves as their Safety Data Sheet (SDS). It is based on information concerning the product which is held by Grosafe Chemicals Ltd or has been obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. While Grosafe Chemicals Ltd has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to the accuracy or completeness. As far as lawfully possible, Grosafe Chemicals Ltd accept not liability for any loss, injury, or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of the reliance on the information contained in this SDS. The information herein is given in good faith, but no warrant, express or implied, is made.

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**Review Date: October 2027**