

SAFETY DATA SHEET

REPLY™ 600

SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND COMPANY

1.1 Identifiers

Product name: **REPLY™ 600**
 Other Name(s): Water dispersible granule containing 600 g/kg metsulfuron-methyl

1.2 Recommended use of the chemical and restrictions on use

Product Use: Non-selective herbicide for control of gorse and other scrub weeds in pasture and waste areas

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

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: HSR000242
 Classifications: Eye irritation Category 2; Hazardous to the aquatic environment acute Category 1; Hazardous to the aquatic environment chronic Category 1; Hazardous to soil organisms

2.2 Label elements:

Pictograms:



Signal Word: WARNING

Hazard statements:

H319 Causes serious eye irritation.
 H410 Very toxic to aquatic life with long lasting effects
 H421 Very toxic to the soil environment
 Hazardous to soil organisms

Additional labelling statements required under Hazardous Substances (Labelling) Notice 2020

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.
P280	Wear eye/face protection.
<i>Response</i>	
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.
P391	Collect spillage.
<i>Storage</i>	
-	
<i>Disposal</i>	
P501	Dispose of contents/container in accordance with local regulations.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS	Proportion % w/w
Metsulfuron methyl	74223-64-6	60
Other ingredients*	Trade secret	balance

This is a commercial product whose exact ratio of components may vary slightly.
*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 product label or Safety Data Sheet at hand

IF SWALLOWED: Rinse mouth with water. Call a POISONS CENTRE or doctor for advice if person feels unwell.

IF ON SKIN: Wash skin with plenty of soap and water. If skin irritation occurs get medical advice.

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 advice.

IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing. Call a 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, foam, CO₂ or dry chemical as appropriate for surrounding materials, Contain extinguishing media to prevent runoff into drains, sewers, waterways.

5.2 Specific hazards arising from the chemical

Fire decomposition products may be toxic/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, inform the local water authority.

6.3 Methods and materials for containment and cleaning up

Contain spilled material. Sweep up granules and place 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.

If spillage of this product is near trees or valuable plants, remove the top 50mm of soil after the spillage is cleaned up. For further information contact the supplier for advice.

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 handle until all safety precautions have been read and understood. To be used by people who are suitably qualified and appropriately supervised.

Do not apply into or onto water unless according to label and HSNO conditions.

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. Avoid inhalation of dust, spray mist/aerosols. Wear protective equipment such as coat/trouser (overalls), boots, gloves and eye/face 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 food, drink and animal feedstuffs.

Storage of 100 kg or more of this product requires an emergency response plan, secondary containment and signage.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Control parameters – exposure standards, biological monitoring

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

No biological limits applicable.

8.2 Engineering controls

Use outdoors or in well-ventilated area.

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 chemical splash goggles if eye contact is possible.

Skin Protection: Wear impervious chemical resistant gloves (e.g. nitrile, butyl), coveralls, socks and chemical resistant footwear. For overhead spray exposure, wear chemical resistant headgear. Ensure all skin areas are covered.

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	Off-white to white granule
Odour	No information available
Odour threshold	Not known
pH	4.0 – 7.0 (as 1% aqueous)
Melting/Freezing Point	No data available
Boiling Point /Range	No data available
Flash point	Non flammable
Flammability (solid, gas)	Not applicable
Upper/Lower flammability or explosive limits	Not applicable
Vapour Pressure	No data available
Vapour density	No data available
Specific gravity/bulk density	~ 0.53 @ 25°C
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
Particle characteristics	No data available

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.

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:	Not classified as being acutely toxic.
Aspiration hazard:	Product contains no components with aspiration hazard.
Respiratory irritation:	Dust may be slightly irritating to throat.
Skin corrosion/irritation	Not classified as a skin irritant.
Serious eye damage/irritation	Classified as an eye 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	No ingredients in product identified as suspected of damaging fertility or the unborn child.
Specific target organ toxicity – single/repeated exposure	Not ingredients identified for specific target organ toxicity effects.
Narcotic effects	Product contains no ingredient identified as causing narcotic effects.

11.3 Toxicological data:

Product	Not available
Metsulfuron-methyl	Oral, rat LD ₅₀ >5000 mg/kg b.w Dermal, rabbit LD ₅₀ >2000 mg/kg b.w. Inhalation, rat LC ₅₀ (4 hr) >5 mg/L air

SECTION 12: ECOLOGICAL INFORMATION

12.1 Ecotoxicity

This product is classified as being very toxic to aquatic life with long lasting effects and hazardous to soil organisms.

12.2 Environmental Fate

Breakdown in soil and groundwater: Not rapidly biodegradable.

Bioaccumulation: Not bioaccumulative.

Partition coefficient (octanol/water): Not available.

Soil mobility: Low

12.3 Ecotoxicity data:

Metsulfuron-methyl	<i>Lemna minor</i> (duckweed) EC ₅₀ (96 hr) 0.0004 mg/L <i>Lemna gibba</i> NOEC 0.00016 mg/L Rice (<i>Oryza sativa</i>), seedling emergence EC ₂₅ (16 d) 0.00015 mg/L
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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 crushed and disposed of at an approved landfill.

SECTION 14: TRANSPORT INFORMATION

Road and Rail Transport:

Classified as Dangerous Good Class 9 according to NZS5433 Transport of Dangerous Goods on Land

Marine Transport (IMO/IMDG):

Classified as Dangerous Good Class 9 by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Air Transport (ICAO/IATA):

Classified as Dangerous Good Class 9 by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulation for transport by air.

UN Number:	3077
UN Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS METSULFURON-METHYL 60%)
Transport hazard class(es)	9
Packing Group:	III
HAZCHEM:	2Z
Special Precautions for User:	-
IMDG Marine pollutant:	YES
Transport in Bulk:	-

SECTION 15: REGULATORY INFORMATION

15.1 HSNO Act 1996

Hazardous substance according to Hazardous Substances (Classification) Notice 2020.

Approved substance number:	HSR000242 Water dispersible granule containing 600 g/kg metasulfuron-methyl 600 g/kg -Substance B
Hazard classifications:	Eye irritation Category 2; Hazardous to the aquatic environment acute Category 1; Hazardous to the aquatic environment chronic Category 1; Hazardous to soil organisms.

Controls:	Refer to controls on www.epa.govt.nz for complete wording for variation Controls. 77A Permissions: A person must not apply or otherwise use this substance onto or into water unless that person first obtains a permission from the Authority under section 95A under the HSNO Act 1996 77A Requirements for protection of aquatic farms; The person must ensure the substance is not applied in a
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manner that may cause harm to aquatic farms where food is produced.

77A Signage requirements: The person must ensure signage is erected and maintained at all public access points within 100 m of the application area to notify the public that application of a herbicide onto or into water has been undertaken and state the following- Do not swim – Do not gather food from the waterway (including fish) – Do not take water for consumption. Signs must be erected on the day, and prior to, operation and remain in place for five days after application. The signs must be removed at the end of this period. The signs must be capable of being read at a distance of at least five metres during daylight hours.

77A Notification requirements: A person who applies the substance onto or into water must ensure any parties that may be potentially affected are notified of the details of the operation.

77A Restrictions on nonylphenol ethoxylates: A person applying a substance onto or into water must ensure the substance does not contain nonylphenol ethoxylates.

77A Requirements relating to static water bodies: A person applying a substance onto or into water must ensure that in a single application it is not applied to more than 33% of the surface area of any static water body. If applications taken cumulatively within a seven day period are more than 33% of the surface area of the water body, no further applications must be applied to additional sections of the water body for at least seven days after the last application to that water body. The controls do not apply if the average dissolved oxygen level for the static water body is less than 4 mg/L at the time of application.

77A Incident reporting requirements: A person applying a substance onto or into water must ensure any instances of unintended or accidental by-kills are reported.

77A Annual reporting requirements: A person applying a substance onto or into water must ensure an annual report is provided to the EPA by the 31st July each year.

Additional information:	Refer to HS Notices (www.epa.govt.nz) and HSW HS Regulations (www.worksafe.govt.nz)
Tolerable exposure limits:	A TEL drinking water has been set for metsulfuron-methyl. The TEL value is 0.04 mg/L.
Environmental exposure limits:	An EEL water has been set for metsulfuron-methyl. The EEL value is 0.0084 µg/L.
Certified Handler:	Not applicable
Tracking:	Not applicable
Qualifications:	A person mixing, loading, or applying this substance must be a suitably qualified or under the guidance of a suitably qualified person.
International agreements:	Not applicable
Record Keeping:	A record of application records is required in certain circumstances. Refer to section 48 of Hazardous Substances (Hazardous Property Controls) Notice 2017.

15.2 ACVM Act 1997

Registration number: P8544 REPLY™ 600

Refer to www.foodsafety.govt.nz for registration conditions.

SECTION 16: OTHER INFORMATION

16.1 Date of preparation or last revision of SDS

SDS issued	10 August 2023
SDS supersedes	24 th June 2020
Reason issued	Update to GHS

16.2 ABREVIATIONS

ADI	Acceptable Daily Intakes
CAS number	Chemical Abstracts Service Registry Number
CCID	Chemical Classification Identification Database
EPA	Environmental Protection Authority
ErC₅₀	Half maximal Effective Concentration
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
HSNO	Hazardous Substances and New Organisms
HS	Health and Safety
HSR	Hazardous Substances Register
IARC	International Agency for Research on Cancer
LC₅₀	Median Lethal Concentration
LD₅₀	Median Lethal Dose
SDS	Safety Data Sheets
NOAEL	No Observable Adverse Effect Level
NOEL	No Observable Effect Level
NOS	Not otherwise specified
STEL	Short Term Exposure Limit
SWA	Safety Work Australia
TWA	Time-Weighted Average
UN Number	United Nations Number

16.3 REFERENCES

EPA CCID and Approved Substance databases
 PPDB- Pesticides Properties DataBase

16.4 OTHER

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End of Safety Data Sheet