

SAFETY DATA SHEET

GROSAFE KNOCKDOWN® RTU

SECTION 1: IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

1.1 Identifiers

Product Name: **GROSAFE KNOCKDOWN® RTU**

Other Name(s): Ready to use solution of 7.2g/L glyphosate present as the isopropylamine salt

1.2 Recommended use of the chemical and restrictions on use

Product Use: Kills annual and perennial weeds and grasses

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 Regulations 2001

2.2 Label elements:

Pictogram:



Signal Word: Warning

Hazard statements:

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

Precautionary statements:

Prevention

P103 Read label before use.
P264 Wash hands thoroughly after handling
P273 Avoid release to the environment
P280 Wear eye protection/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 and easy to do. Continue rinsing
P337 + P313 If eye irritation occurs: 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
Glyphosate (<i>present as isopropylamine salt</i>)	38641-94-0	7.2 g/L
Surfactant blend	-	< 30 g/L
Water	7732-18-5	up to 100%

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non hazardous ingredients are also possible.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General Information:

Call the National Poison Centre, 0800 POISON [0800 764 766] in event of any suspected poisoning. Have label or Safety Data Sheet at hand.

Ingestion: If swallowed, do NOT induce vomiting. Rinse mouth with water. Get medical advice.

Skin Contact: Wash with plenty of water. If irritation develops get medical advice.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists then get medical attention.

Inhalation: Not usually a poisoning problem. Remove person to fresh air and keep at rest until recovered. Get medical advice if person feels unwell and symptoms persist.

4.2 Symptoms caused by exposure

Accidental ingestion of diluted glyphosate solutions may result in mild, transient, gastrointestinal disturbance. Eye exposure may lead to mild conjunctivitis. Fast action is needed (flushing with water) to avoid more serious effects. Inhalation of spray mist may cause oral or nasal discomfort, an unpleasant taste in the mouth, tingling and throat irritation.

4.3 Medical attention and special treatment

Treatment symptomatically.

SECTION 5: FIRE FIGHTING MEASURES

5.1 Suitable extinguishing media

Use water spray, alcohol resistant foam, dry powder or carbon dioxide. Contain to prevent runoff into drains, sewers, waterways.

5.2 Specific hazards arising from the chemical

Fire decomposition products are likely to be irritating if inhaled.

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

In the event of an accidental spill, wear full protective clothing including eye and face protection. Wash contaminated personal protective equipment and clothing, and dry before re-use.

6.2 Environmental precautions

Prevent spillage from entering drains or waterways. .

6.3 Methods and materials for containment and cleaning up

Absorb spillage with inert material such as sand and vermiculite. Collect contaminated material into labelled container(s) and dispose of to landfill.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Read the label before use. Avoid contact with skin and eyes. When using, wear gloves and eye protection. Wash face and hands after using. Do not use spray equipment contaminated with this product for any other purposes unless first thoroughly cleaned with a suitable cleaning detergent.

7.2 Conditions for safe storage

Store in the closed original container out of reach of children and in a dry, cool, well-ventilated area. Do not store for prolonged periods in direct sunlight. Keep away from food, drink and animals feeding stuffs. Check containers periodically for leaks.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Control parameters – exposure standards, biological monitoring

Ingredient	TWA (mg/m ³)	STEL (mg/m ³)
Glyphosate	-	-

Exposure limits have not been established for any of the significant ingredients in this product. No biological limits applicable.

8.2 Engineering controls

Use outdoors to ensure adequate ventilation.

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 protective glasses or goggles.

Skin Protection: Wear impervious gloves, and preferably also overalls. Ensure all skin areas are covered.

Respirator: Where product is being sprayed and a mist could be produced a respirator should be worn. It should be fitted with a type G cartridge, suitable for agricultural chemicals.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear light yellow liquid
Odour	Slight surfactant odour
Odour threshold	Not known
pH	4.4 – 5.0
Melting/Freezing Point	No data available
Boiling Point /Range	> 100°C
Flash point	Non flammable
Flammability (solid, gas)	Not applicable
Vapour Pressure	No data available
Vapour density	No data available
Relative density	~1.0 g/L at 20°C
Solubility	Soluble in water
Partition Co-efficient n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	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

Store in the closed original container in a dry, cool, well-ventilated area and out of direct sunlight.

10.4 Incompatible materials and possible hazardous reactions

Strong oxidizing agents, copper and zinc sulphate.

10.5 Hazardous decomposition products

Fire Decomposition: Carbon monoxide, carbon dioxide, nitrogen oxides; phosphorus oxides.

Polymerisation: This product will not undergo polymerisation reactions.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Health hazard information

The product is classified for health hazards according to an assessment of information on individual ingredients and mixture rules.

11.2 Toxicological information

Acute toxicity:	Product is not classified as acutely toxic if ingested, in contact with skin or inhaled.
Aspiration hazard:	Product contains no solvents identified with aspirant hazard.
Respiratory irritation:	Potential for sneezing and coughing if respiratory tract irritated.
Skin corrosion/irritation	Product classified as mild skin irritant.
Serious eye damage/irritation:	Product is classified as eye irritant. Surfactant is severe eye irritant.
Respiratory or skin sensitisation:	No ingredients in product classified as sensitizers.
Germ cell mutagenicity:	No ingredients in product classified as presumed or suspected mutagens.
Carcinogenicity:	No ingredients in product classified as presumed or suspected carcinogens.
Reproductive toxicity:	No ingredients in product classified as presumed or suspected of impairing fertility or the unborn child.
Specific target organ toxicity	
– single/repeated exposure:	No ingredients in product classified as presumed or suspected of affecting specific target organs.
Narcotic effects	Product contains no ingredient identified as causing narcotic effects.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Ecotoxicity

This product is classified as being harmful to aquatic organisms.

Glyphosate ecotoxicity information -

Fish Toxicity	Bluegill sunfish LC ₅₀ (96 h): 45 mg/L Rainbow trout LC ₅₀ (96 h): 86 mg/L Fathead minnow LC ₅₀ (96 h): >1000 mg/L
Aquatic invertebrate toxicity	<i>Daphnia magna</i> LC ₅₀ (48h): 780 mg/L
Diatom toxicity	<i>Skeletonema costatum</i> EC ₅₀ (96 h): 1.2 mg/L (chlorophyll decrease)
Algae toxicity	<i>Scenedesmus subspicatus</i> E _b C ₅₀ (72h): 485 mg/L

12.2 Environmental Fate

Breakdown in soil and groundwater: Glyphosate will degrade through action of soil micro-organisms although rate is dependent on soil and climatic conditions. Glyphosate is strongly adsorbed to most soils and is highly soluble in water.

SECTION 13: DISPOSAL CONSIDERATIONS

Product Disposal

Use the product for its intended purpose. Otherwise dispose of unused product to waste management facility for pesticides.

Container Disposal

Do not use container for storage of other products. Rinse container with small amount of water then dispose of the container for recycling or to landfill. Do not incinerate.

SECTION 14: TRANSPORT INFORMATION

Road and Rail Transport:

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

Marine Transport (IMO/IMDG):

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

Air Transport (ICAO/IATA):

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

UN Number: None allocated

UN Proper Shipping Name: None allocated

Transport hazard class(es): None allocated

Special Precautions for User: Not available

IMDG Marine pollutant: No

Transport in Bulk: Not available

SECTION 15: REGULATORY INFORMATION

15.1 HSNO Act 1996

Hazardous substance according to Hazardous Regulations 2001

Approved substance number: HSR101326

Hazardous classifications: 6.3B, 6.4A, 9.1D

Controls: refer to HS Notices (www.epa.govt.nz) and HSW HS Regulations (www.worksafe.govt.nz)

SECTION 16: OTHER INFORMATION

Date of preparation or last revision of SDS

SDS issued 31 July 2018

SDS supersedes Not applicable

Reason issued New product

ABBREVIATIONS

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

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End of Safety Data Sheet