

SAFETY DATA SHEET HORTCARE® Glyphosate 360

SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND COMPANY

1.1 Identifiers

Product name: HORTCARE® Glyphosate 360

Soluble concentrate containing 360 g/L glyphosate

Other Name(s): present as the isopropylamine salt

1.2 Recommended use of the chemical and restrictions on use

Product Use: Herbicide

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: HSR101010 Classifications: 6.3B, 6.4A, 9.1B.

2.2 Label elements:

Pictograms:





Signal Word: WARNING

Hazard statements:

H316 Causes mild skin irritation.H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

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 protective gloves/clothing.

Response

P332 + P313 If skin irritation occurs: Get medical advice/attention.

P305 + P351 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

+ P338 lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice/attention.

P391 Collect spillage.

Storage

.

Disposal

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

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS	Proportion % w/w
Glyphosate acid	1071-83-6	30*
Other ingredients	Trade secret	balance

^{*}equivalent to 360 g/L as glyphosate acid, and is present in the product as the glyphosate isopropylamine salt (CAS No 38641-94-0).

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

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 you feel unwell. Have product label or SDS at hand.

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 you feel 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.

Accidental ingestion of diluted glyphosate solutions may result in mild, transient gastrointestinal

disturbance. Eye exposure may lead to conjunctivitis. Fast action is needed (flushing eyes with water) to avoid serious effects. Inhalation of spray mist may cause oral or nasal discomfort, an unpleasant taste in the mouth, tingling and throat irritation,

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 hand 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. For small liquid spills, use absorbent material such as sand, soil, vermiculite 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 directly 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.

When applied product avoid inhalation of spray mist/aerosols and skin or eye contact.

Wear 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 eat, drink or smoke when using.

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.

Storage of 1000 L 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/m³)	STEL (mg/m³)
-		

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 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 suitable cartridge with particulate filter for agricultural chemicals.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance Clear light yellow liquid

Odour Surfactant like
Odour threshold Not known
pH 4.5 – 6.0 (neat)
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 Specific gravity/bulk density c.a. 1.2 g/cc Solubility Soluble in water Partition Co-efficient n-octanol/water No data available No data available Auto-ignition temperature 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 or freezing.

10.4 Incompatible materials and possible hazardous reactions

Strong oxidising agents, copper and zinc sulphate.

10.5 Hazardous decomposition products

Fire Decomposition: Smoke, carbon, nitrogen and phosphorous oxides 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 for acute toxicity if ingested or in contact

with skin.

Aspiration hazard: Product contains no components with aspiration hazard.

Respiratory irritation: May be slightly irritating.

Skin corrosion/irritation Classified as a mild skin irritant. Serious eye damage/irritation Classified as a serious eye irritant.

Respiratory or skin sensitisation Not classified as respiratory or contact sensitiser. Germ cell mutagenicity: No ingredients in product identified as presumed or

suspected mutagens.

No ingredients in product identified as presumed or Carcinogenicity

suspected carcinogens.

No ingredients in product identified suspected of Reproductive toxicity

damaging fertility or the unborn child.

Specific target organ toxicity -

Not classified for effects on target organs or systems. single/repeated exposure There are some reports in the literature that glyphosate

affects the bladder and liver.

Narcotic effects Product contains no ingredient identified as causing

narcotic effects.

11.3 Toxicological data:

Glyphosate acid Oral (rat) LD₅₀ >2000 mg/kg bw

SECTION 12: ECOLOGICAL INFORMATION

12.1 Ecotoxicity

This product is classified as toxic to aquatic life with long lasting effects.

12.2 Environmental Fate

Breakdown in soil and groundwater: DT₅₀ 15 days (typical). Glyphosate will degrade through action of soil microorganisms although rate is dependent on soil and climatic conditions.

Glyphosate is strongly absorbed to most soils and is highly soluble in water.

Bioaccumulation: Low bioaccumulation potential.

Partition coefficient (octanol/water): Log P -3.2 (25 °C, pH 7.0)

Soil mobility: Product is very soluble in water.

12.3 Ecotoxicity data:

Fish: Rainbow trout LC₅₀ (96 hr) 86 mg/L Glyphosate acid

> Bluegill sunfish LC₅₀ (96 hr) 45 mg/L Fathead minnow LC₅₀ (96 hr) >1000 mg/L Crustacea: Daphnia magna EC₅₀ (48 h) 780 mg/L

Alga: Scenedesmus subspicatus EC₅₀ (74 hr) 485 mg/L Diatom: Skeletonema costatum EC₅₀ (96hr) 1.2 mg/L

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:

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: 3082

UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

LIQUID, N.O.S. (CONTAINS GLYPHOSATE 36%)

Transport hazard class(es) 9
Packing Group: III
HAZCHEM: 2Z
Special Precautions for User: IMDG Marine pollutant: No
Transport in Bulk: -

SECTION 15: REGULATORY INFORMATION

15.1 HSNO Act 1996

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

Approved substance number: HSR101010 **Hazardous classifications:** 6.3B, 6.4A,9.1B.

Controls: Refer to control on www.epa.govt.nz for complete wording for

variation Controls.

77A Do not apply onto or into water.

77A Do not apply more than 7.5 kg glyphosate acid/ha. Refer to HS Notices (www.epa.govt.nz) and HSW HS

Additional information: Refer to HS Notices (www.epa.govt.r Regulations (www.worksafe.govt.nz)

15.2 ACVM Act 1997

Registration number: P8519 HORTCARE® Glyphosate 360 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 23rd December 2020

SDS supersedes SDS dated 8th August 2018

Reason issued Update of SDS format and product information.

16.2 ABREVIATIONS

ADI Acceptable Daily Intakes

CAS number Chemical Abstracts Service Registry Number CCID Chemical Classification Identification Database

EPA Environmental Protection Authority **ErC**₅₀ Half maximal Effective Concentration

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

HORTCARE® is a trademark of Grosafe Chemicals Ltd

Information contained in this Safety Data Sheet is provided in good faith and is believed to be correct at the date hereof. However, it's expected that individuals receiving the information will exercise independent judgement in determining its appropriateness for a particular purpose. Grosafe Chemicals Ltd makes no representation whatsoever as to the accuracy or comprehensiveness of the information and to the full extent allowed by law excludes all liability whatsoever, whether with respect to negligence or otherwise, and no responsibility as permitted by law for any loss or damage arising from or connection with the supply or use of the information in this Safety Data Sheet.

End of Safety Data Sheet