



**SAFETY DATA SHEET**

**Machette® 540**

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND COMPANY**

**1.1 Identifiers**

Product name: **Machette® 540**  
Other Name(s): Water soluble concentrate containing 540 glyphosate acid as the potassium salt

**1.2 Recommended use of the chemical and restrictions on use**

Product Use: Non-selective non-residual 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](mailto: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: HSR100587  
Classifications: 9.1B

**2.2 Label elements:**

**Pictograms:**



Signal Word: -

**Hazard statements:**

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.

**Precautionary statements:**

*Prevention*

P273 Avoid release to the environment.

*Response*

P391 Collect spillage.

*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 % w/w
Glyphosate acid	1071-83-6	40 - 41*
Tallow alkyl amine ethoxylate	61791-26-2	4
Other ingredients*	Trade secret	balance

\* present as the potassium salt

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 Poisons 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 person feels unwell.

**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 immediate medical advice.

**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 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, or foam 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, warn the local water authority.

### 6.3 Methods and materials for containment and cleaning up

Contain spilled material. Absorb with sand, soil or absorbent granules. Collect into labelled container that can be sealed. Reuse if possible or dispose of safely.

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 handle until all safety precautions have been read and understood.

Do not apply concentrate directly into or onto water. Use according to label instructions and comply with HSNO Controls.

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. 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 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/m <sup>3</sup> )	STEL (mg/m <sup>3</sup> )
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No biological limits applicable.

### 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.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear blue liquid
Odour	Slight
Odour threshold	Not known
pH	6.0 -9.0
Melting/Freezing Point	No data available
Boiling Point /Range	No data available
Flash point	Non flammable
Flammability (solid, gas)	Not applicable
Vapour Pressure	No data available
Vapour density	No data available
Specific gravity/bulk density	ca 1.32 g/ml
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	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

Do not store in mild steel or galvanised steel.

### 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 that may be harmful/toxic.

### 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.
Aspiration hazard:	Not classified.
Respiratory irritation:	Not classified.
Skin corrosion/irritation	Not classified as skin irritant.

Serious eye damage/irritation	Not classified.
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 classified for adverse effects to organs or systems.
Narcotic effects	Product contains no ingredient identified as causing narcotic effects.

**11.3 Toxicological data:**

Product	Not available
Glyphosate acid (CAS No 1071-83-6)	Oral, rabbit LD <sub>50</sub> 3800 mg/kg b.w

**SECTION 12: ECOLOGICAL INFORMATION**

**12.1 Ecotoxicity**

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

**12.2 Environmental Fate**

**Breakdown in soil and groundwater:** Not rapidly biodegradable.

**Bioaccumulation:** Low potential to be bioaccumulative..

**Partition coefficient (octanol/water):** Not available.

**Soil mobility:** Low

**12.3 Ecotoxicity data:**

Glyphosate acid (CAS No 1071-83-6)	Fish; Bluegill sunfish LC <sub>50</sub> (96 hr) 45 mg/L Algae; <i>Skeletonema costatum</i> EC <sub>50</sub> (72 hr) chlorophyll decrease, 1.2 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 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.

<b>UN Number:</b>	3082
<b>UN Proper Shipping Name:</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS GLYPHOSATE ACID 54%)
<b>Transport hazard class(es)</b>	9
<b>Packing Group:</b>	III
<b>HAZCHEM:</b>	2Z
<b>Special Precautions for User:</b>	-
<b>IMDG Marine pollutant:</b>	YES
<b>Transport in Bulk:</b>	-

**SECTION 15: REGULATORY INFORMATION**

**15.1 HSNO Act 1996**

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

**Approved substance number:** HSR100587

**Hazardous classifications:** 9.1B

**Controls:** Refer to control on [www.epa.govt.nz](http://www.epa.govt.nz) for complete wording for variation Controls.

77A Where the substance is applied onto or into water and the water has the potential to leave the place containing the application area any application of the substance must be under the personal control of an approved handler.

**Additional information:** Refer to HS Notices ([www.epa.govt.nz](http://www.epa.govt.nz)) and HSW HS Regulations ([www.worksafe.govt.nz](http://www.worksafe.govt.nz))

**15.2 ACVM Act 1997**

**Registration number:** P9567 Machette@ 540

Refer to [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz) for registration conditions.

**SECTION 16: OTHER INFORMATION**

**16.1 Date of preparation or last revision of SDS**

<b>SDS issued</b>	18 <sup>th</sup> August 2020
<b>SDS supersedes</b>	-
<b>Reason issued</b>	Update to new SDS template

**16.2 ABBREVIATIONS**

<b>ADI</b>	Acceptable Daily Intakes
<b>CAS number</b>	Chemical Abstracts Service Registry Number
<b>CCID</b>	Chemical Classification Identification Database
<b>EPA</b>	Environmental Protection Authority
<b>ErC<sub>50</sub></b>	Half maximal Effective Concentration
<b>GHS</b>	Globally Harmonized System of Classification and Labelling of Chemicals
<b>Hazchem Code</b>	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
<b>HSNO</b>	Hazardous Substances and New Organisms
<b>HS</b>	Health and Safety
<b>HSR</b>	Hazardous Substances Register
<b>IARC</b>	International Agency for Research on Cancer
<b>LC<sub>50</sub></b>	Median Lethal Concentration
<b>LD<sub>50</sub></b>	Median Lethal Dose

<b>SDS</b>	Safety Data Sheets
<b>NOAEL</b>	No Observable Adverse Effect Level
<b>NOEL</b>	No Observable Effect Level
<b>NOS</b>	Not otherwise specified
<b>STEL</b>	Short Term Exposure Limit
<b>SWA</b>	Safety Work Australia
<b>TWA</b>	Time-Weighted Average
<b>UN Number</b>	United Nations Number

### **16.3 REFERENCES**

EPA CCID and Approved Substance databases

PPDB- Pesticides Properties DataBase

### **16.4 OTHER**

MACHETTE® is a trademark of Grosafe Chemicals Ltd

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End of Safety Data Sheet