



SAFETY DATA SHEET

FIRSTRATE™ 450

SECTION 1: Identification of the substance and supplier

Product name: FIRSTRATE 450
Recommended Use: Non selective herbicide

Company: Grosafe Chemicals Ltd.
Address: 20 Jean Batten Drive, Mt Maunganui. (P.O. Box 14450 Tauranga, 3143)
Email: info@grosafe.co.nz
Telephone Toll Free Number:
Emergency Telephone Number: 0800 CHEMCALL (0800 243622)
(EMERGENCIES ONLY) The National Poisons Centre (0800 POISON (0800 764 766)

Date of Issue: August 2015

SECTION 2: Hazards Identification

HSNO Hazard Classification: 6.1D, harmful by ingestion, 6.4A, eye irritant, 9.1B, toxic to aquatic organisms

SECTION 3: Composition/information on ingredients

<u>Ingredients</u>	<u>CAS Number</u>	<u>Content</u>
glyphosate as the isopropylamine salt	(CAS# 38641-94-0)	450 g/l

SECTION 4: First Aid Measures

In case of poisoning by any route contact a doctor or Poisons Information Centre.

Swallowed: If large quantities are ingested, drink plenty of water. Do not induce vomiting.

Eye: Flush eyes with large quantities of water.

Skin: Wash affected areas thoroughly with soap and water.

Inhaled: Move affected person to fresh air and keep at rest until recovered.

Advise to Doctor: No specific antidote is available. If poisoning is suspected apply symptomatic therapy. Contact The National Poisons Centre (0800 POISON (0800 764 766) for more information.

SECTION 5: Fire Fighting Measures

Dangerous Goods Class:	None allocated.
Extinguishing media:	Fine water spray or foam.
Unsuitable extinguishing media:	None.
Special exposure hazards:	Spray sealed drums to prevent thermal expansion.
Fire and Explosive Properties:	No specific hazards.
Flammability:	Non-flammable.

SECTION 6: Accidental Release Measures

In Case of Spill or Leak: Control the spill at its source. Contain the spill to prevent it from spreading, contaminating soil, or entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions outlined in Section 8. Place spilled material into compatible disposal container. Scrub area with water plus detergent. Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposal.

SECTION 7: Handling and Storage

Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store with food or drink. Wash thoroughly with soap and water after handling.

SECTION 8: Exposure Control/Personal Protection

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION, PACKAGING AND USE OF THIS PRODUCT.

FOR COMMERCIAL APPLICATIONS OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

Ingestion: Prevent eating, drinking, tobacco use and cosmetic application in areas where there is a potential for exposure to the material, Wash thoroughly with soap and water after handling.

Eye Contact: Where eye contact is likely, use chemical splash goggles. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Skin Contact: Where contact is likely, wear chemical-resistant (such as nitrile or butyl) gloves, coveralls, socks and chemical-resistant footwear. For overhead exposure, wear chemical-resistant headgear.

Inhalation: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below exposure limits.

SECTION 9: Physical and Chemical Properties

Appearance:	Brown liquid
Odour:	mild
pH (1% solution):	ca. 5
Boiling Point:	< 100 °C
Flammable (Explosive) Limits:	Non flammable
Explosive Properties:	Not explosive
Oxidizing Properties:	Not an oxidizing agent
Vapour Pressure:	N/A
Relative density:	ca 1.2 g/cm ³
Solubility:	Readily soluble in water

SECTION 10: Stability and Reactivity

Stability:	Stable
Conditions to avoid:	No specific conditions
Materials to avoid:	As above
Hazardous Decomposition Products:	Not expected
Hazardous Polymerisation:	Will not occur

SECTION 11: Toxicological Information

LD ₅₀ Information (based on active ingredient)	
Oral	LD ₅₀ >5000 mg/kg (rat)
Dermal	LD ₅₀ >5000 mg/kg (rabbit)
Inhaled	LC ₅₀ >10 mg/L air (4 hour exposure rat)
Irritation:	Eye - slight irritant
Skin: -	Non irritant
Sensitisation:	Skin - non-sensitiser
Mutagenicity:	Not a known mutagen
Reproductive Toxicity:	Not a known teratogen
Carcinogenicity:	Not a known carcinogen

SECTION 12: Environmental Information

Mobility:	Relatively immobile
Bioaccumulation:	Does not bioaccumulate
Ecotoxicity:	The results of single exposure (acute) environmental toxicity studies indicate that glyphosate is no more than slightly toxic to a variety of fish and invertebrates, although it may be toxic to some algae.

SECTION 13: Disposal Considerations

Do not reuse product containers. Dispose of product containers, waste containers, and residues according to regional or local body bylaws.

SECTION 14: Transport Information

Not scheduled as Dangerous Goods for Transport Purposes

UN Number: 3082

UN Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID - glyphosate 45%

HAZCHEM Code: 2 X

UN Packing Group: III

SECTION 15: Regulatory Information

FIRSTRATE 450 is a registered product under the ACVM Act 1997 (P 7336).

See www.foodsafety.govt.nz for registration conditions.

FIRSTRATE 450 is approved under the HSNO Act 1996 (HSR000769).

See www.epa.govt.nz for approval conditions

Note: The information contained herein is given in good faith, but no warranty, expressed or implied, is made. Consult Grosafe Chemicals Ltd. for further information.