

# Safety Data Sheet

## Glyphosate 360

Revised: April 2016

### Section 1: SUBSTANCE IDENTIFICATION AND SUPPLIER

<b>Product Name:</b>	<b>GLYPHOSATE 360</b>
<b>Recommended Use:</b>	Non-selective, non-residual, contact herbicide for the control of grasses and broadleaf weeds
<b>Company Identification:</b>	Ravensdown Limited
<b>Address:</b>	292 Main South Road Hornby Christchurch
<b>Customer Centre:</b>	0800 100 123
<b>National Poisons Information Centre:</b>	0800 POISON (0800 764 766)
<b>Emergency Telephone Number:</b>	0800 CHEMCALL (0800 243 622) (24hr) (Emergencies Only)
<b>Transport Emergency:</b>	111

### Section 2: HAZARD IDENTIFICATION

<b>Hazard Classifications:</b>	6.1D, 6.4A, 9.1B
<b>Priority Identifiers:</b>	HARMFUL ECOTOXIC
<b>Secondary Identifiers:</b>	6.1D = May be harmful if swallowed, inhaled or absorbed through the skin 6.4A = Irritating to the eye 9.1B = Toxic to aquatic organisms

### Section 3: COMPOSITION INFORMATION

INGREDIENT	CAS No.	CONTENT
Glyphosate as the IPA salt	1071-83-6	36%
Tallow Amine Ethoxylate	61791-26-2	10-20%
Water		Too volume

### Section 4: FIRST AID MEASURES

<b>First Aid Measures:</b>	Consult the National Poisons Centre on 0800 POISON (0800 764 766) or a doctor immediately in every case of suspected poisoning.
<b>Inhalation:</b>	Remove patient to fresh air. Lay down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance immediately.
<b>Ingestion:</b>	Never give anything by mouth to an unconscious person. If swallowed DO NOT induce vomiting. For advice, contact the National Poisons Centre on 0800 POISON (0800 764 766). Seek medical assistance immediately.
<b>Skin:</b>	Remove contaminated clothing and wash affected area thoroughly with soap and water. If a large area is affected seek medical assistance.
<b>Eye:</b>	Flush with plenty of water holding eyelids open if necessary.
<b>Advice to Doctor:</b>	No specific antidote. Treat symptomatically

### Section 5: FIRE FIGHTING MEASURES

<b>Flammability:</b>	If involved in a fire this product will not burn.
<b>Specific Hazards:</b>	This product or solutions of this product, react with galvanised steel or unlined steel containers and tanks, to produce hydrogen gas which may form a highly flammable or explosive gas mixture.

<b>Hazardous Combustion Products:</b>	If involved in a fire, may evolve oxides of nitrogen or phosphorous
<b>Extinguishing Media:</b>	Water fog, foam, carbon dioxide or dry chemical
<b>Protective Equipment:</b>	Full protective clothing and self-contained breathing apparatus
<b>HAZCHEM Code:</b>	3Z
<b>Location Certificate:</b>	Not applicable
<b>Hazardous Atmosphere Zone:</b>	Not applicable
<b>Fire Extinguishers:</b>	Not applicable

## Section 6: ACCIDENTAL RELEASE MEASURES

<b>Spills and Disposal:</b>	Wear appropriate protective clothing. Exclude non-essential people from the area. Contain spill and absorb with inert material such as soil, sand or absorbent granules and place in a sealable waste container. Dispose of waste safely in an approved landfill.
<b>Protective Clothing:</b>	For appropriate personal protective equipment see section 8.
<b>Environmental Precaution:</b>	Prevent from entering drains, waterways or sewers. If spill does enter waterways contact local authority.

## Section 7: HANDLING AND STORAGE

<b>Handling:</b>	Keep out of reach of children. Avoid contact with skin, eyes and inhalation of spray mist.
<b>Approved Handler:</b>	This product must be under the control of an approved handler when applied directly onto or into water.
<b>Tracking:</b>	Not required
<b>Record Keeping:</b>	Records of use must be kept if this product is applied onto or into water.
<b>Storage:</b>	Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs, fertiliser and seed. Store in accordance with NZS 8409 Management of Agrichemicals. This product is subject to emergency response plan, secondary containment and signage when stored in quantities of 1000 litres or more, either alone or in aggregate with substances of the same hazard classification. For full details refer to NZS 8409 Management of Agrichemicals and HSNO Regulations (Emergency Management and Identification Regulations).
<b>Other Information:</b>	Do not mix use or store in galvanised or unlined steel containers. Always read the label before use. See label for further information on handling and storage.

## Section 8: EXPOSURE CONTROL/PERSONAL PROTECTION

<b>Exposure Limits:</b>	No exposure limits have been assigned for this product by OSHA
<b>Protective Equipment:</b>	When opening the container, preparing spray and when contact with concentrate or solution is likely, wear safety goggles, waterproof gloves, cotton overalls buttoned to the neck and wrist, and boots.
<b>Engineering Controls:</b>	Handle in well ventilated area. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below exposure limits. Avoid inhalation of spray mist.
<b>Hygiene Precautions:</b>	Do not eat, drink or smoke while using this product. Remove protective clothing and wash hands and face before meals and after work. Wash protective clothing daily after work.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Clear amber liquid
<b>Odour:</b>	Faint amine odour
<b>Specific Gravity:</b>	1.17
<b>Solubility in Water:</b>	Soluble in water
<b>pH:</b>	4.5 – 5.0
<b>Other Information:</b>	(SL) Soluble concentrate

## Section 10: STABILITY AND REACTIVITY

<b>Stability:</b>	When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture.
<b>Hazardous Polymerisation:</b>	Hazardous polymerisation is not possible
<b>Materials to Avoid:</b>	Corrosive to mild steel galvanised steel and zinc. Non-corrosive to stainless steel, polyethylene and plastics Do not mix, store or apply the product or spray solutions in galvanised or unlined steel containers or spray tanks. Avoid contact with strong acids, alkalis and oxidising agents

## Section 11: TOXICOLOGICAL INFORMATION

<b>Hazard Classifications:</b>	6.1D, 6.4A
<b>Inhalation:</b>	<b>Acute Inhalation</b> LC <sub>50</sub> (rat) (4hr) >1.3mg/L for Glyphosate (IPA salt) No adverse effects are to be expected. When applying this product avoid inhalation of spray mist. Some temporary irritation may be experienced.
<b>Ingestion:</b>	<b>Acute Toxicity (Oral)</b> LD <sub>50</sub> (rat) 4050mg/kg for Glyphosate (IPA salt) Amounts swallowed incidental to normal handling are unlikely to cause injury. Large amounts swallowed may cause injury. Symptoms include: nausea, vomiting, gastrointestinal discomfort, diarrhoea, hypotension and pulmonary oedema.
<b>Skin:</b>	<b>Acute Toxicity (Dermal)</b> LD <sub>50</sub> (rabbit) >5000mg/kg for Glyphosate (IPA salt) No adverse effects are to be expected. The concentrate may cause skin irritation on prolonged contact. Product is not a skin sensitiser.
<b>Eye:</b>	The concentrate may cause irritation but permanent damage is not anticipated. Prolonged contact may cause damage.
<b>Chronic Effects:</b>	No information available.
<b>Reproductive Toxicity:</b>	Glyphosate is not considered to be a reproductive toxin
<b>Mutagenicity:</b>	No mutagenic or teratogenic effects expected
<b>Carcinogenicity:</b>	Based on the results of animal studies Glyphosate is not considered to be carcinogenic.

## Section 12: ECOLOGICAL INFORMATION

<b>Hazard Classifications:</b>	9.1B
<b>Ecotoxicity:</b>	<b>Acute Toxicity (fish)</b> (Glyphosate as IPA salt) LC <sub>50</sub> (bluegill sunfish) (96hr) 5.8-14mg/l LC <sub>50</sub> (rainbow trout) (96hr) 8.2-26mg/l LC <sub>50</sub> (carp) (96hr) 19.7mg/l <b>Acute Toxicity (daphnia)</b> (Glyphosate as IPA salt) LC <sub>50</sub> (48hr) 480mg/l <b>Toxic to fish and other aquatic organisms</b> (mainly due to surfactant) <b>Acute Toxicity (birds)</b> (Glyphosate) LD <sub>50</sub> (bobtail quail) >3850mg/kg <b>Non-toxic to birds</b> <b>Acute Toxicity (bees)</b> (Glyphosate) LD <sub>50</sub> >100ug/bee <b>Non-toxic to bees</b>
<b>Persistence/Mobility:</b>	Low mobility in soil. Glyphosate is strongly adsorbed by the soil. Microbial degradation is the major cause of loss from the soil. Half life average 41days (16-77days)
<b>Bioaccumulation:</b>	Glyphosate does not bioaccumulate

### Section 13: DISPOSAL INFORMATION

- Product Disposal:** Dispose of product only by using according to label or at an approved landfill
- Container Disposal:** Triple rinse container and add rinsate to spray tank. Burn in an appropriate incinerator if circumstance, such as wind direction permit. Otherwise crush and bury in an approved landfill. Do not use container for any other purpose.

### Section 14: TRANSPORT INFORMATION

- Transport information:** It is good practice to separate this product from food, food related materials, animal feedstuffs, seed or fertilisers during transport.
- UN Number:** 3082
- Proper Shipping Name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Glyphosate 36%)
- DG Class:** 9
- Subsidiary Class:** None
- Packing Group:** III
- MTQ (non-commercial):** 1000L
- Marine Pollutant:** Yes
- Hazchem Code:** 3Z
- IERG number:** 47

- Other information:** Do not carry more than 1.0L of this product on a passenger service vehicle.
- Check the latest versions of the Land Transport Dangerous Goods Rule 45001 and associated Transport of Dangerous Goods on Land (NZS 5433) for additional information on maximum allowable transport quantities (MTQ's), placarding and segregation. Sea transport may require further segregation.

### Section 15: REGULATORY INFORMATION

- ACVM:** Registered pursuant to the ACVM Act 1997, P7129  
See [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz) for registration conditions.
- EPA:** Approved pursuant to the HSNO Act 1996, Code: HSR000227  
See [www.epa.govt.nz](http://www.epa.govt.nz) for approval controls.

### Section 16: OTHER INFORMATION

This SDS supersedes all previous versions.

The data in this SDS relates only to the specific material designated herein and does not relate to use in combination with any other material. The information is provided in good faith based on current knowledge and experience. No warranty with regard to the product properties is expressed or implied.