

SAFETY DATA SHEET



DRYPHOSATE™ 680 SG

Date of Issue: 17th May 2016

1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

Chemical name of active ingredient(s):	Glyphosate
Recommended use:	Herbicide for weed control in agriculture, horticulture, drains, aquatic areas, forestry and other situations including general weed control.
Supplier:	Etec Crop Solutions Ltd
Emergency telephone number:	0800 Poison (0800 764 766) 24 Hours

2. HAZARDS IDENTIFICATION

Hazard Classification:	Classified as Dangerous Goods
Required identification Details:	HSNO Classes: 6.1E, 8.3A, 9.1B Acute toxicant. Eye corrosive. Aquatic toxicant TOXICITY: Harmful - may be harmful if swallowed, inhaled or absorbed through the skin. CORROSIVE: Danger - this product is corrosive and may Cause eye damage. ECOTOXIC: Toxic to aquatic organisms with long-lasting effects. Non-selective herbicide - toxic to plants.
Potential Health Effects:	No harmful effects are expected if the precautions on the label and this SDS are followed.
Acute:	
Ingestion:	The concentrate is of low toxicity if swallowed. Amounts swallowed incidental to normal handling procedures and use are not expected to cause injury. Ingestion of this product may cause gastrointestinal discomfort, nausea, diarrhoea and vomiting.
Skin:	Will cause irritation.
Inhalation:	May cause irritation to mucous membranes and respiratory tract. Avoid breathing in spray mists when applying the product as a spray.
Eye:	Will cause irritation and possible damage unless washed off immediately.
Chronic:	No information available, no chronic effects expected.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation Information on hazardous ingredients

Common name	CAS No	%
Glyphosate (present as mono-ammonium salt)	1071-83-6	68.0 % w/w
Surfactant		10-20% w/w
Inert ingredient	Secret	To 100 % w/w

4. FIRST-AID MEASURES

Description of necessary first aid measures:

Effects and symptoms

First-aid measures

Inhalation:

Remove to fresh air until recovered.

Ingestion:

If swallowed, do not induce vomiting, seek medical advice immediately. Make every effort to prevent vomit from entering the lungs by careful placement of the patient. Do not

give anything by mouth to a semi-conscious or unconscious person. Rinse mouth thoroughly with water.

Skin contact:

Remove contaminated clothing, wash skin with plenty of soap

and water. Discard contaminated non-waterproof shoes and boots. If irritation persists, seek medical advice.

Eye contact:

Flush eyes immediately with plenty of fresh water for at least 15 minutes while holding the eyelids open. Remove contact lenses if worn. However, if irritation persists, see a doctor.

Notes to a physician:

Treatment is symptomatic.

Workplace facilities:

Required Instructions:

5. FIRE-FIGHTING MEASURES

Not a fire or explosion hazard

HAZCHEM Code:

2X

Extinguishing media:

Water fog, foam, carbon dioxide or dry chemical

Hazardous thermal (de)composition products:

This product, or spray solutions of this product, react with galvanised steel or unlined steel (except stainless steel) containers and tanks, to produce hydrogen gas which may form a highly flammable or explosive gas mixture. If involved in a major fire, could evolve oxides of nitrogen or phosphorus

Protection of fire-fighters:

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Environmental precautions:

Methods for cleaning up: Recover the product by sweeping up or vacuuming without raising dust. Collect in sealed open top containers for disposal. Final clean up with degreasing agent or detergent is advised.

7. HANDLING AND STORAGE

Handling:

Storage: Store in the closed, original container in a well-ventilated area. Do not store for prolonged periods in direct sunlight.

Transport: *Dangerous Good Class 9*

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace Exposure Guidelines

Workplace exposure standards:

Application in the workplace:

National Exposure Standard: The EEL for glyphosate is set at 0.37mg/L . As with all dusts the WES for particulates not otherwise classified = 10mg/m³.

Engineering measures

Hierarchy of controls:

No special ventilation required.

Exposure control measures:

No Hazard indication:

Ventilation specification:

Personal Protective Equipment

Detail specifications for equipment:

Skin contact should be minimized during preparation of spray solution by wearing protective clothing including elbow-length

PVC gloves and face shield. If product contacts skin, immediately wash area with soap and water. After each use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. Wash gloves, face shield and contaminated clothing before reuse.

Respiratory system:

Skin and body:

Hands:

Eyes:

General hygiene:

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Granules
Colour:	Pale yellow
Odour:	Musty odour
pH:	
Vapour Pressure:	NA
Vapour Density:	NA
Boiling Point:	NA
Bulk Density:	0.6 g/kg
Solubility:	Soluble in water
Specific gravity or density:	
Information for flammable material including:	
- Lower and upper flammability limits	Non combustible material
Flashpoint (state test Method)	NA
Auto – ignition Temperature:	
Octanol/water partition coefficient:	
Explosion properties:	
Oxidation properties:	

10. STABILITY AND REACTIVITY

Stability:	When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture.
Materials to avoid:	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 of the product in galvanised steel or unlined steel (except stainless steel) containers or spray tanks.
Hazardous decomposition Products:	
Hazardous polymerization:	Hazardous polymerisation is not possible.
Specific Data:	
Hazardous reactions :	

11. TOXICOLOGICAL INFORMATION

Acute toxicity – Oral :	Rats acute oral LD ₅₀ = 2814 mg/kg for a similar formulation
Acute toxicity - Dermal :	Rabbits acute dermal LD ₅₀ > 5000 mg/kg for a similar formulation
Acute toxicity – Inhalation:	

Skin irritation :

Eye irritation:

Sensitization :

Common name :

Chronic toxicity :

Studies of glyphosate lasting up to 2 years, have been conducted with rats, dogs, mice and rabbits, and with few exceptions no effects were observed. For example, in a chronic feeding study with rats, no toxic effects were observed in rats given doses as high as 400 mg/kg/day. Also, no toxic effects were observed in a chronic feeding study with dogs fed up to 500 mg/kg/day, the highest dose tested.

Carcinogenicity:

Mutagenicity:

Reproduction toxicity:

Other information :

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to fish and other aquatic organisms (mainly due to the surfactant).

Precautions

Do not spray in high winds. Do not contaminate dams, waterways or sewers with this product.
Glyphosate is a non-selective contact herbicide. Spray drift can cause damage.

Persistence/degradability Soil

Adsorption studies indicate that glyphosate has very low mobility. Average field half life of glyphosate is 47 days.

Data for a.i. (Glyphosate):

Bees – acute toxicity

Not toxic to bees. LD₅₀ >100 µg/bee.

Birds – acute toxicity

Not toxic to birds. LD₅₀ for bobwhite quail is >3850 mg/kg

Data for a similar product:

Fish – acute toxicity

LC₅₀ (96 hr) for bluegill sunfish is 5.8-14 mg/L.
LC₅₀ (96 hr) for rainbow trout is 8.2-26 mg/L.
LC₅₀ (96 hr) for fathead minnow is 9.4 mg/L.
TL₅₀ (96hr) carp is 19.7 ppm

13. DISPOSAL CONSIDERATIONS

Methods of disposal :

On site disposal of the concentrated product is not acceptable. The product should be used for its intended purpose. If there is a need to dispose of the product, approach local authorities who hold periodic collection of

unwanted chemicals.

14. TRANSPORT INFORMATION

International transport regulations

It is good practice to separate this product from food, food related materials, animal feedstuffs, seed or fertilisers during transport.

UN number:	3077
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. - (glyphosate, 68%)
DG Class	9
Hazchem Code	2X
Packing Group	III
IERG No.	47
Marine Pollutant	Yes. Marine Pollutant mark required
IMDG EMS	F-A, S-F
Other Information	Do not carry more than 2kg on a passenger service vehicle. Segregation: Check the latest Land Transport Rule Dangerous Goods Rule 45001 for additional information. Sea transport may require additional segregation. Refer NZS5433 sea segregation for details.

15. REGULATORY INFORMATION

ACVM Registered Number:	Registered pursuant to the ACVM Act 1997, No P8895 See www.foodsafety.govt.nz for registration conditions
HSNO Approval Code:	Approval Code HSR000219 See www.ermanz.govt.nz for approval controls
Packaging & Labeling	HARMFUL * CORROSIVE - keep out of reach of children ECOTOXIC
Hazard Rating Systems	NFPA/HMIS: 2-0-0

16. OTHER INFORMATION

Original Issue Date: March 2011

Revision Date: 17th May 2016

Replaces: ES 243

Additional information:	National Poisons Information Centre: 0800 764 766
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Disclaimer

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