

## MATERIAL SAFETY DATA SHEET

### STATEMENT OF HAZARDOUS NATURE:

Hazardous according to the criteria of NOHSC Australia

### COMPANY DETAILS:

Syngenta Crop Protection Pty Limited  
ABN 33 002 933 717  
140-150 Bungaree Rd.,  
PENDLE HILL, NSW, 2145

Telephone No.: (02) 9688 0444  
24 Hours Emergency No.: 1 800 033 111

## IDENTIFICATION

### PRODUCT NAME: TOUCHDOWN HITECH HERBICIDE

Formulation type:	Soluble concentrate	UN number:	none allocated
Active ingredient:	glyphosate (potassium salt)	Dangerous goods class:	none allocated
Product code:	A13013A	Subsidiary risk:	none allocated
Chemical type:	N-(phosphonomethyl)glycine	Hazchem code:	none allocated
Poisons schedule:	5	Packing group:	none allocated
		EPG/IERG:	none allocated

**USE:** A non-selective herbicide for control of a wide range of annual and perennial weeds.

### PHYSICAL DESCRIPTION/PROPERTIES

Appearance:	clear brown liquid	Flash Point:	does not flash
Odour:	Sweet	Flammability:	not applicable
Boiling point:	approx. 100°C	Combustibility:	non-combustible
Viscosity:	208 cSt (20°C)	Solubility in water:	soluble
Specific gravity:	1.37 g/cm <sup>3</sup> at 20°C		

### OTHER PROPERTIES

pH (1% aqueous):	3 – 7	Auto-ignition temperature:	not applicable
Oxidising properties:	non-oxidising	Explosive properties:	not explosive

### INGREDIENTS

	CAS No.	Content (%w/v)
Glyphosate technical grade	1017-83-6	50
Potassium hydroxide 50% solution	1310-58-3	30 – 60
Alkyl polyglycoside	68515-73-1	10 – 20
Other ingredients determined not to be hazardous		to 100

## HEALTH HAZARD INFORMATION

### HEALTH EFFECTS

#### ACUTE TOXICITY

This product is harmful according to NOHSC Australia.

Swallowed: **NOT HARMFUL**  
Tests on rats indicate this product is NOT HARMFUL following single oral doses of undiluted product.  
LD<sub>50</sub> > 5000 mg/kg

Dermal absorption: **NOT HARMFUL**  
Tests on rats indicate this product is NOT HARMFUL following skin contact with the undiluted product.  
LD<sub>50</sub> > 5000 mg/kg

Inhaled: **NOT HARMFUL**  
 Tests on rats indicate this product is NOT HARMFUL due to inhalation of the undiluted product.  
 LC<sub>50</sub> = 5.08 mg/L

**Irritation**

Eye: **SLIGHT IRRITANT**  
 Skin: **NON IRRITANT**

**Sensitisation**

Skin: **MILD POTENTIAL SENSITISER**

**Poisoning symptoms:**

Swallowing can result in irritation of the mouth, pharynx and oesophagus. Inhalation of mists or aerosols may produce respiratory irritation. No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label.

**CHRONIC TOXICITY**

**Glyphosate technical** has been extensively tested and no evidence of mutagenic, carcinogenic, neurotoxic or teratogenic effects was obtained. The NOEL (no observable effect level) was found to be 410 mg/kg bw/day (average) in a 2 year rat study.

**FIRST AID**

**In case of poisoning by any exposure route contact a doctor or Poisons Information Centre. Phone 13 11 26.**

Swallowed: Give plenty of water to drink. DO NOT induce vomiting. Seek immediate medical assistance.

Eye: Immediately irrigate with copious quantities of water for at least 15 minutes. Eyelids to be held open. Seek immediate medical assistance.

Skin: Wash contaminated skin with plenty of water and soap. Remove contaminated clothing and wash before re-use. If irritation occurs seek medical advice.

Inhaled: Move person to fresh air and keep at rest until recovered. If any signs or symptoms occur or persist, get medical attention.

**ADVICE TO DOCTOR**

No specific antidote exists. Treat symptomatically.

## PRECAUTIONS FOR USE

**ALWAYS READ AND FOLLOW THE LABEL INSTRUCTIONS AND WARNINGS**

**EXPOSURE STANDARDS**

	TWA		STEL	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Glyphosate technical	--	10	--	--

TWA = The time weighted average airborne concentrations over an eight-hour working day, for a five-day working week over an entire working life.  
 STEL = Short Term Exposure Limit - the average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal 8 hour work day.

Peak Limit - a ceiling concentration which should not be exceeded over a measurement period which should be as short as possible but not exceeding 15 minutes.

**Exposure Potential** - Swallowing is unlikely under normal conditions of usage. Significant skin uptake does not occur. Inhalation is a possible route of exposure. This product is diluted with water prior to use as a spray. This diluted form is less toxic by all routes of exposure.

**Re-entry Period** - Do not enter treated areas without protective clothing until spray has dried.

**ENGINEERING CONTROLS**

No special requirements. Product is used outdoors. Ensure ventilation is adequate and that air concentrations of components are controlled below quoted Exposure Standards. Keep containers closed when not in use.

**PERSONAL PROTECTION**

Avoid contact with eyes and skin. Do not inhale spray mist. Wear overalls, safety glasses or goggles and impervious gloves (PVC or nitrile gloves). After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves, goggles and contaminated clothing.

Only use protective equipment bearing the mark of the Standards Association of Australia.

**FLAMMABILITY**

This product is NON-FLAMMABLE and non-combustible.

**SAFE HANDLING INFORMATION****STORAGE AND TRANSPORT**

Store in tightly sealed original containers in a dry secure place away from fertilisers, seed, feed and food. Store out of direct sunlight. Keep out of reach of children, unauthorised persons and animals.

**SPILLS AND DISPOSAL**

In case of spillage it is important to take all steps necessary to:

- Avoid eye and skin contact.
- Avoid contamination of waterways.

***Procedure for spill:***

- (1) Keep all bystanders away.
- (2) Wear full length clothing and PVC gloves.
- (3) Re-position any leaking containers so as to minimise further leakage.
- (4) Dam and absorb spill with an absorbent material (e.g. sand or soil).
- (5) Shovel the absorbed spill into drums.
- (6) Disposal of the absorbed material will depend upon the extent of the spill.
  - For quantities up to 50L of product bury in a secure landfill site.
  - For quantities greater than 50L seek advice from the manufacturer (use emergency contact number below) before attempting disposal. Contain in a secure location until disposal method is established.
- (7) Decontaminate the spill area with detergent and water and rinse with the smallest volume of water practicable.

***Dispose of empty, used containers by:***

- (a) Triple rinsing or preferably pressure rinsing containers with water. Add the rinsings to the spray tank. DO NOT dispose of undiluted chemicals on site.
- (b) If recycling, replace cap and return clean containers to recycler or designated collection point.
- (c) If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

***Returnable containers:***

- (a) Empty contents fully into application equipment.
- (b) Close all valves and return to Syngenta Crop Protection, Pendle Hill, Sydney for re-use.

**FIRE/EXPLOSION HAZARD**

This product is a non-combustible liquid, however, following evaporation of aqueous component residual material may burn. Extinguish warehouse and factory fires using fine water-spray, foam, carbon dioxide or dry chemical powder. During a fire this product may release toxic fumes including those of ammonia, oxides of carbon, nitrogen, phosphorous and sulphur. When fighting a major fire wear SCBA and structural firefighters uniform. Do not allow fire-water to enter drains.

**OTHER INFORMATION**

The active ingredient, **Glyphosate**, has a low potential to bioaccumulate and it degrades rapidly in soil. Toxicity to birds is low – LD<sub>50</sub> bobwhite quail > 3851 mg/kg. It is harmful to fish - rainbow trout LC<sub>50</sub> (96 h) = 130 mg/L, bluegill sunfish LC<sub>50</sub> (96 hr) 47 mg/L. Toxicity to aquatic invertebrates is low - water flea, *Daphnia magna*, EC<sub>50</sub> (48 h) = 1000 mg/L. It is harmful to algae - green algae EC<sub>50</sub> (48 h) = 17 mg/L. Low toxicity to bees – contact LD<sub>50</sub> > 100 µ/bee.

**Note:** This product is a registered agricultural chemical and must therefore be used in accordance with the container label directions. A comprehensive package of toxicological and environmental data for the active ingredients of this product has been submitted to the Federal health and environment authorities and has been evaluated by expert toxicologists and environmental scientists.

**CONTACT POINT:** Regulatory Affairs Manager - Crop Protection - (02) 9688 0444  
**24 HOURS EMERGENCY CONTACT:** 1 800 033 111

This Material Safety Data Sheet summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

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