



SAFETY DATA SHEET POLARIS 360 HERBICIDE

Section 1: Identification of the Substance and Supplier

Product name: POLARIS 360 HERBICIDE
Chemical name of active Ingredient(s): Glyphosate, isopropylamine salt
Supplier: ADAMA New Zealand Limited
Level1/19 Elms Street, Wakatu Estate, Stoke, Nelson, New Zealand
P.O.Box 1799, Nelson New Zealand.
Telephone +64 3 543 8275 Fax: +64 3 53 8274
Emergency Telephone: 0800 POISON (0800 764 766)

Section 2: Hazards Identification

Hazard Classifications: 6.1D, 6.4A, 9.1B
Most important hazards: TOXICITY
Warning –
May be harmful if swallowed, inhaled or absorbed through the skin
May cause eye irritation. Avoid contact with eyes.
ECOTOXICITY
Toxic to aquatic organisms with long-lasting effects. Avoid contamination of any water supply with product or empty container.

Section 3. Composition/Information on Ingredients

Substance/preparation	Preparation				
<u>Information on hazardous ingredients *</u>					
Common name	CAS No.	%	EC Number	Symbol	R-Phrases
Glyphosate	38641-94-0	36			R36/38

- Occupational Exposure Limit(s), if available, are listed in section 8

Section 4: First-Aid Measures

First-aid measures:
Inhalation: First aid is not generally required. If in doubt, seek medical advice
Ingestion: First aid is not generally required. If in doubt, seek medical advice
Skin contact: Remove contaminated clothing. Gently wash skin with water and soap for 20 minutes or until chemical is removed.
Eye contact: Wash out with plenty of water with the eyelid held wide open for at least 20 minutes.

Section 5: Fire-Fighting Measures

Extinguishing media
Suitable: Not combustible. Use extinguishing media suited to burning materials.
Hazardous thermal There is no risk of explosion from this product under normal circumstances if it is involved in a fire.
(de)composition products:
Protection of fire-fighters: When fighting fires involving significant quantities of this product, wear a splash suit complete with self contained breathing apparatus.

Section 6: Accidental Release Measures

Personal precautions: Wear full protective clothing including face mask, face shield and gauntlets. All skin areas should be covered.
Environmental precautions: Do not discharge into drains or the environment.
Methods for cleaning up: Absorb remainder in sand or other inert material. Avoid using sawdust or other combustible materials. Dispose of in an authorized waste collecting point.



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Section 7: Handling and Storage

Handling: Keep out of reach of children. Do not smoke, drink or eat while using.
Storage: Store in original, unopened container in a cool, dry place, out of direct sunlight and away from stock feed or foodstuffs.

Section 8: Exposure Controls/Personal Protection

Engineering measures: No special ventilation requirements are normally necessary for this product
Hygiene measures: When handling do not eat, drink or smoke. Wash hands thoroughly after handling. Wash clothing separately before re-use.

Occupational Exposure Limits

Common name: Glyphosate

Personal protective equipment:

Respiratory system: Respirator is recommended.
Skin and body: Wear suitable protective clothing. Chemical resistant boots.
Hands: Chemical resistant gloves.
Eyes: Safety goggles or face shield.

Section 9: Physical and Chemical Properties

Physical state: Liquid
Colour: Clear green
Odour: Odourless to mild amine odour
Boiling point: Approximately 100°C at 100kPa
Vapour Density: No Data
Vapour pressure: 2.37 kPa at 20°C (water vapour pressure)
Solubility in water: completely soluble in water
Octanol/water partition Coefficient pH: No Data
Flammability: 4.9-5.3
Explosion properties: Not flammable
Oxidation properties: Not Explosive
Oxidation properties: Not oxidizing

Section 10: Stability and Reactivity

Stability: Not subject to polymerization
Materials to avoid: Strong oxidizing agents.
Hazardous reactions: None
Hazardous decomposition products: Carbon dioxide, Nitrogen and its compounds and under some circumstances nitrogen oxides.

Section 11. Toxicological Information

Preparation

Acute toxicity - Oral: Acid & isopropylamine salt
Acute toxicity - Dermal: LD₅₀ (rats) 750 mg/kg
Acute toxicity - Inhalation: LD₅₀ (rats) >5000 mg/kg
LC₅₀ (rat) 5 to 12 mg/L (4 hours)
Skin irritation: Non irritating (rabbits)
Eye irritation: Slightly irritating (rabbit).
Sensitization: Non sensitizer (guinea-pig)

Common name: Glyphosate
Chronic toxicity: No toxic effects observed in rats given 400mg/kg/day
Carcinogenicity: No signs of cancer observed in rats given 400mg/kg/day
Mutagenicity: Not mutagenic



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Reproduction toxicity: None

Section 12: Ecological Information

Ecotoxicity:

Fish

LC₅₀ (96 hours) bluegill sunfish = 120 mg/L
Harlequin = 168 mg/L
Rainbow trout = 86 mg/L

Daphnia similis

LC₅₀ (48 hours) = 780 mg/L

Birds

LC₅₀ in both mallard and bobwhite quail = >450ppm

Common name:

Glyphosate

Mobility:

Soil - Moderately persistent

Persistence/degradability:

The product is moderately persistent. Half-life time (t_{1/2}): 47 days
Breakdown of product is primarily via: microbes

Bioaccumulative potential:

Slightly toxic: wild birds & aquatic invertebrates, **Low Toxic:** fish, **Non toxic:** Honey bees

Section 13: Disposal Considerations

Methods of disposal:

Container Disposal - Triple rinse empty container and add rinsate to spray tank. Burn in an appropriate incinerator, if circumstances such as wind direction permit. Otherwise crush or puncture and bury in a suitable landfill, or if appropriate, recycle. Avoid contamination of any water supply with product or empty container.

Section 14: Transport Information

UN Number 3082
Proper shipping name Environmentally hazardous substance, Liquid, N.O.S, (Glyphosate)
DG Class 9
Packing Group III
Hazchem Code 2X
Marine Pollutant Yes
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National transport regulations: Do not carry this product on a passenger service vehicle.

Segregation: Check the land transport Rule Dangerous Goods 1999, Rule 45001 for additional information. Sea transport may require additional segregation. Refer: NZS5433; Sea Segregation, or the International Maritime Dangerous Goods Code for details.

Section 15: Regulatory Information

New Zealand Regulatory Information:

NZFSA Approval:

Registered pursuant to the ACVM Act 1997. No P7286.
See www.nzfsa.govt.nz/acvm for registration conditions.

Approved pursuant to the HSNO Act 1996, Approval No. HSR00227
See www.ermanz.govt.nz for approval controls

HSNO Classifications:

6.1D, 6.4A. 9.1B



Ecotoxic

Section 16: Other Information



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Note: This product is a registered agricultural chemical and must be 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 Government health and environment authorities and has been evaluated by expert toxicologists and environmental scientists.

The information contained in the Safety Data sheet is correct to the best of our knowledge at the date of issue. It is intended as a guide for the safe use, handling, disposal, storage and transportation and is not intended as a warranty or as a specification. The information relates only to the product specified and may not be suitable for combinations with other materials or in processes other than those specifically described herein.

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HISTORY

Date of printing: 23/07/14
Supersedes SDS issued 08/04/2009