



SAFETY DATA SHEET

FREEZONE GLYPHOSATE 360 AQUATIC TUFFWEED LIQUID CONCENTRATE

HERBICIDE APVMA Approval No. 63976

SECTION 1. IDENTIFICATION

Product name: FREEZONE GLYPHOSATE 360 AQUATIC TUFFWEED LIQUID CONCENTRATE
HERBICIDE APVMA Approval No. 63976

Recommended Use: Weed Killer.

Restrictions on Use: None specified.

Supplier of SDS: Freezone Public Health Pty Ltd

Supplier Address: 18 Gilpin Street
Shorncliffe QLD 4017

Supplier Phone: 07 3869 4436

Supplier Fax: 07 3869 4433

Supplier Email: info@freezone.net.au

Emergency Telephone Number: Craig Jephcott 0412 200 252
Poisons Information Centre 13 11 26

SECTION 2. HAZARD(S) IDENTIFICATION

Classification of the substance or mixture

Skin corrosion / irritation (Category 2)

Serious eye damage / eye irritation (Category 1)

GHS Pictograms



Signal Word

Warning

Label Elements and Precautionary Statements

Hazard Statements: Causes skin irritation.
Causes serious eye damage.
Toxic to aquatic life with long lasting effects.

Precautionary Statements: **Prevention**

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Keep out of reach of children.

Avoid release to the environment.

Wear protective gloves, protective clothing and eye or face protection.

Wash hands thoroughly after use.

Response

Immediately call a POISON CENTER or doctor/physician.

Collect spillage.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing and wash before reuse.

Disposal

Dispose of contents and containers as specified on the registered label.

SUSMP Classification

S5

SECTION 3. COMPOSITION AND INFORMATION ON INGREDIENTS

<p>Glyphosate (present as Isopropylamine salt) contains 36% CAS number: 38641-94-0</p>	<p>Classification Skin corrosion / irritation (Category 2) Serious eye damage / eye irritation (Category 1)</p>
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<p>Inert Ingredients contains <15% CAS number: secret</p>	<p>Classification</p>
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<p>Water contains to 100%</p>	<p>Classification</p>
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Full text for all hazard statements is contained in Section 16.

SECTION 4. FIRST AID MEASURES**First aid measures**

General information	You should call The Poisons Information Centre if you feel that you may have been poisoned or irritated by this product. The number is 13 1126 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this SDS with you when you call. ADVISE FOR DOCTORS: Treat symptomatically.
Inhalation	Remove to fresh air, keep warm and at rest. Give artificial respiration or oxygen if breathing is shallow or stopped. Get medical attention immediately.
Ingestion	Rinse mouth with water. Give plenty of water to drink. Do NOT induce vomiting. Seek medical assistance.
Skin contact	Remove contaminated clothing and wash affected areas or skin with soap and water. Seek medical advice if irritation develops.
Eye contact	Hold the eyes and flush immediately with plenty of water. Seek medical advice if irritation develops.

Symptoms caused by exposure

General information	Severity of the symptoms described will vary depending on the concentration and length of exposure.
Inhalation	No adverse respiratory effects are anticipated.
Ingestion	May cause gastrointestinal discomfort, nausea, vomiting and diarrhoea. If ingested large quantities of the undiluted product may result in hypotension and pulmonary oedema.
Skin contact	Will cause irritation to skin.
Eye contact	Cause irritation and conjunctivitis.

Medical attention and special treatments

Notes to the doctor	Treat symptomatically.
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SECTION 5. FIREFIGHTING MEASURES**Extinguishing media**

Extinguish fire with foam, dry powder, carbon dioxide or water spray..

Specific hazards arising from the chemical

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. The product or spray solutions of the product react with such containers and tanks to produce hydrogen gas which may form a highly combustible gas mixture that can flash or explode if ignited by open flame, spark, welder's torch, lighted cigarette or other ignition source. Spray solutions of the product should be mixed, stored and applied only in stainless steel, aluminium, fibreglass, plastic and plastic-lined steel containers..

SECTION 6. ACCIDENTAL RELEASE MEASURES

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Personal precautions	Wear suitable protective clothing, gloves and eye/face protection. See section 8.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Prevent spillage from entering drains or water courses.
Clean up methods	Ensure suitable personal protection (including respiratory protection) during removal of spillage. Contain spill and absorb with sand or other absorbent material. Do not allow to enter drains, sewers and watercourses. Collect in sealed open top container for disposal. Triple rinse containers, add rinsings to spray tanks and send containers for recycling or if not recycling, break, crush or puncture and bury empty containers in a local authority landfill or in accordance with local, state or federal regulation. Do not dispose of undiluted chemicals on site.

SECTION 7. HANDLING AND STORAGE

Precautions for handling	When handling this product, do not eat, drink or smoke. When mixing this product always wear a PVC or rubber apron, elbow length PVC gloves, face shield or goggles and overalls buttoned at the wrist and neck. When spraying this product, wear a face shield or goggles After each days use, wash gloves, face shield or goggles and overalls. If product gets on skin, immediately wash area with soap and water.
Conditions for safe storage	Store in the closed, original container in a well-ventilated area as cool as possible out of direct sunlight. Keep from contact with fertilisers and seeds.

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure limits

The Australian Acceptable Daily Intake (ADI) for glyphosate for a human is 0.3 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 30 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species.

Engineering Control

Well ventilated.

Protective Equipment

Avoid contact with eyes and skin. Do not inhale spray mist. When preparing spray solution, wear PVC/rubber apron or cotton overalls buttoned to the neck and wrist, elbow-length PVC gloves and goggles or face-shield. After use and before eating, drinking and smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves, face and contaminated clothing.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Yellow liquid.
Colour	Clear yellow liquid.
Odour	Slight ammoniacal odour.
Odour threshold	No information available.
pH	No information available.
Melting point	No information available.

Initial boiling point and range	No information available.
Flash point	No information available.
Evaporation rate	No information available.
Evaporation factor	No information available.
Flammability (solid, gas)	Non-Flammable.
Upper/lower flammability or explosive limits	No information available.
Other flammability	No information available.
Vapour pressure	No information available.
Vapour density	No information available.
Relative density	No information available.
Specific density	1.17 + 0.01.
Solubility(ies)	Soluble in water.
Partition coefficient	No information available.
Auto-ignition temperature	No information available.
Decomposition Temperature	No information available.
Viscosity	No information available.
Explosive properties	No information available.
Explosive under the influence of a flame	No information available.
Oxidising properties	Does not meet the criteria for classification as oxidising.

SECTION 10. STABILITY AND REACTIVITY

Chemical stability	Stable under normal conditions when used and stored in accordance with label.
Hazardous Polymerization	Hazardous polymerisation is unlikely.
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.
Conditions to avoid	This product should be kept in a cool place, preferably below 300C.
Fire Decomposition	Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Nitrogen and its compounds, and under some circumstances, oxides of nitrogen. Occasionally hydrogen cyanide gas. Oxides of phosphorus and other phosphorus compounds. Water. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death. Hydrogen cyanide poisoning signs and symptoms are weakness, dizziness, headache, nausea, vomiting, coma, convulsions, and death. Death results from respiratory arrest. Hydrogen cyanide gas acts very rapidly; symptoms and death can both occur quickly.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Toxicological effects Not regarded as a health hazard under current legislation.

Acute toxicity - oral

Notes (oral LD₅₀) Rats LD50= 5600 mg/kg.

Acute toxicity - dermal

Notes (dermal LD₅₀) Rabbits LD50>5000mg/kg.

Acute toxicity - inhalation

Notes (inhalation LC₅₀)

Based on available data the classification criteria are not met.

Skin corrosion/irritation

Animal data

Based on available data the classification criteria are not met.

Serious eye damage/irritation

Serious eye damage/irritation

Based on available data the classification criteria are not met.

Respiratory sensitisation

Respiratory sensitisation

Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation

Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro

Based on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity

Based on available data the classification criteria are not met.

IARC carcinogenicity

None of the ingredients are listed or exempt.

Reproductive toxicity

Reproductive toxicity - fertility

Based on available data the classification criteria are not met.

Reproductive toxicity- development

Based on available data the classification criteria are not met.

Specific target organ toxicity

STOT- single exposure

Not classified as a specific target organ toxicant after a single exposure.

STOT- repeated exposure

Not classified as a specific target organ toxicant after a repeated exposure.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Technical glyphosate acid is practically nontoxic to fish and may be slightly toxic to aquatic invertebrates.

Acute Toxicity – Fish

Not toxic to fish.

LC50 (96 hr) for rainbow trout is >989 mg/l.

LC50 (96 hr) for carp is >895 mg/l.

Acute Toxicity – Other Organisms

Birds: Not toxic to birds. LD50 for mallard ducks and bobwhite quail (diet) is >5620 mg/kg

Bees: Not toxic to bees. LD50 >100 µg/bee.

Persistence and degradability

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

Bioaccumulative potential

No data available.

Mobility in soil

No data available.

Other adverse effects

No data available.

SECTION 13. DISPOSAL CONSIDERATIONS

General information

Instructions concerning the disposal of this product and its containers are given on the product label. These should be carefully followed.

SECTION 14. TRANSPORT INFORMATION

General

Not classified as dangerous for transport within Australia.

UN number

Not applicable.

UN proper shipping name

Not applicable.

Transport hazard class(es)

No transport warning sign required.

Packing group

Not applicable.

Special precautions for user

Not applicable.

Transport in bulk according to Annex II
of MARPOL and the IBC Code

Not applicable.

SECTION 15. REGULATORY INFORMATION**Safety, health and environmental regulations/legislation specific for the substance or mixture**

Legislation

*Work Health and Safety Act 2011 (Cth)**Work Health and Safety Regulations 2011 (Cth)**Work Health and Safety Act 2011 (Qld)**Work Health and Safety Regulation 2011 (Qld)**Work Health and Safety Act 2011 (ACT)**Work Health and Safety Regulation 2011 (ACT)**Work Health and Safety Act 2011 (NSW)**Work Health and Safety Regulation 2011 (NSW)**Work Health and Safety (National Uniform Legislation) Act 2011 (NT)**Work Health and Safety (National Uniform Legislation)*

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Regulations (NT)

Work Health and Safety Act 2012 (SA)

Work Health and Safety Regulations 2012 (SA)

Work Health and Safety Act 2012 (Tas)

Work Health and Safety Regulations 2012 (Tas)

Occupational Health and Safety Regulations 1996 (WA)

Occupational Health and Safety Act 2004 (Vic)

Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code)

SECTION 16. OTHER INFORMATION

Revision date	25/12/16
Revision	3
Supersedes date	01/08/15
Complete hazard statements	H315: Causes skin irritation. H318: Causes serious eye damage. H411: Toxic to aquatic life with long lasting effects.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.