

# MATERIAL SAFETY DATA SHEET

## Rygel ClearUp Impress 540 SL Herbicide

### 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

**Supplier:** Profeng Australia Pty Ltd  
**ACN:** 156 055 533  
**Street Address:** 103 Ordish Road, Dandenong South, Vic 3175  
**Telephone:** (03) 9768 2803  
**Facsimile:** (03) 9768 2804

**Emergency telephone number:** National Poisons Information Centre:  
Phone Australia 13 11 26.

**Product name:** Rygel Clearup Impress 540 SL Herbicide  
**Product Type:** Group C Herbicide  
**Product Use:** Non selective herbicide for the control of many annual and perennial weeds.

### 2. HAZARDS IDENTIFICATION

#### Hazardous Nature:

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

#### Pictogram



**Signal word** Danger

#### Hazard statement(s)

H318 Causes serious eye damage

H411 Toxic to aquatic life with long lasting effects

#### Precautionary statement(s)

P280 Wear protective gloves/protective clothing/eye protection/face protection

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.



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Remove contact lenses, if present and easy to do. Continue rinsing.

P501

Dispose of contents/ container to an approved waste disposal plant

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

<b>Chemical Characterization</b>	Solid		
<b>Chemical Entity</b>		<b>CAS No</b>	<b>Conc.</b>
Glyphosate present as			
Potassium Hydroxide		1071-83-6	540 g/L
Other non hazardous ingredients		secret	Balance

### 4. FIRST AID MEASURES

#### First aid

**Swallowed:** If swallowed do NOT induce vomiting. Wash mouth with water. If poisoning occurs, contact a Doctor or Poisons Information Centre. Phone 13 11 26.

**Eye:** Immediately hold eyes open and gently flood with clean water. Ensure irrigation under eyelids by occasionally lifting them. Do not try to remove contact lenses unless trained. If irritation persists, seek medical advice.

**Skin:** Remove contaminated clothing. Wash skin with soap and water to remove chemical. If skin is irritated, seek medical advice.

**Inhaled:** Remove to fresh air and observe until recovered. If effects persist, seek medical advice.

**Advice to doctor:** Treat symptomatically. No specific antidote.

### 5. FIRE-FIGHTING MEASURES

**Specific Hazard:** Not flammable. If involved in a fire, the product will not burn. No risk of explosion if involved in a fire. Contain all fire runoff water.

**Extinguishing media:** Choose extinguishing media to suit the burning material. If soft stream water fog or fine water spray is used, contain all runoff.

**Hazards from combustion products:** There is no risk of an explosion from this product under normal circumstances if involved in a fire. Product is unlikely to decompose until heated to dryness. On further heating will emit toxic fumes. Firefighters to wear self-contained breathing apparatus and suitable protective clothing if risk to of exposure to vapour or smoke.

**Precautions for fire-fighters and special protective equipment:** Isolate fire area. Evacuate downwind. Wear full protective clothing and self-contained breathing apparatus. Do not breathe or contact smoke, gases or vapours generated.



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### 6. ACCIDENTAL RELEASE MEASURES

**Emergency procedures:** Isolated and post spill area. As a minimum wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) elbow-length PVC or nitrile gloves and face shield or goggles. Large spills should be dyked or covered to prevent dispersal. Vacuum, shovel or pump spilled material into an approved container and dispose of as listed below. Keep out unprotected persons and animals. DO NOT allow spilled product or wash solution to enter sewers, drains, dams, creeks or any other waterways. This product is a herbicide and spills can damage crops, pastures and desirable vegetation.

**Material and methods for containment and cleanup procedures:** To decontaminate spill area, tools and equipment, wash with detergent and water and add the solution to the drums of wasters already collected and label content. Absorb, as above, any excess liquid and add both solutions to the drums of waste already collected. Dispose of drummed wastes, including decontamination solution in accordance with the requirements of Local or State Waste Management Authorities.

### 7. HANDLING AND STORAGE

**Precautions for Safe Handling:** Will irritate the eyes. May irritate the nose and throat. Repeated exposure may cause allergic disorders. Avoid contact with eyes and skin. When opening the container, preparing spray and using the prepared spray, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) elbow-length PVC or nitrile gloves and face shield or goggles. If product in eyes, wash it out immediately with water. Wash hands after use. After each day's use, wash gloves, face shield or goggles and contaminated clothing.

**Conditions for Safe Storage:** Do not store the product in galvanised steel or unlined steel containers, as the product may react to produce hydrogen gas, which in turn could form a highly combustible gas that could explode if ignited by an open flame, or spark, lighted cigarette, etc. DO NOT store near (or allow to contact) fertilizers, fungicides or pesticides. Store in the closed, original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. Not classified as a Dangerous Good. This product is a Schedule 5 Poison (S5) and must be stored, transported and sold in accordance with the relevant Health Department regulations.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**National Exposure Standards:**

No Exposure guidelines have not been established for this product by Safe Work Australia.

**Biological Limit Values:**

No biological limit allocated.

**Engineering controls:**



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Use in ventilated area only. Use local exhaust at all process locations. Ventilate all transport vehicles prior to unloading. Keep containers closed when not in use.

### Personal Protective equipment (PPE):

General: When opening the container, preparing spray and using the prepared spray, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) elbow-length PVC or nitrile gloves and face shield or goggles. Wash thoroughly before smoking, eating or using toilet facilities. Wash hands after use. Will irritate the eyes. May irritate the nose and throat.

**Respiratory Protection:** Generally not required. Use of a respirator may be required in certain circumstances. If an inhalation risk exists, wear a properly fitted half-face or full-face air purifying respirator which is approved for pesticides (Australian standards).

**Personal Hygiene:** Clean water should be available for washing in case of eye or skin contamination. Wash skin before eating, drinking or smoking. Shower at the end of the workday.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Slight yellow liquid.
<b>Odour:</b>	Slight amine odour.
<b>Solubility in Water</b>	Soluble in water.
<b>Specific Gravity</b>	1.3g/cm <sup>3</sup> .
<b>pH Value:</b>	No data available.
<b>Vapour Pressure:</b>	No data available.
<b>Flash point:</b>	Not flammable.
<b>Poisons Schedule:</b>	This product is a schedule 5 (S5) poison.
<b>Corrosive hazard:</b>	Spray solution of this product should be mixed, stored and applied only in stainless steel, aluminum, brass, copper, fiberglass, plastic or plastic lined containers or spray tanks since a highly flammable gas may be formed. Do not mix or store the product or spray solutions in galvanized steel or unlined steel (except stainless steel).

## 10. STABILITY AND REACTIVITY

**Chemical Stability:** Product is considered stable in ambient conditions for a period of at least 2 years after manufacture.

**Conditions to avoid:** Do not store for prolonged periods in direct sunlight. Spray solutions of this product should be mixed, stored and applied only in stainless steel, aluminum, brass, copper, fiberglass, plastic or plastic lined containers or spray tanks since a highly flammable gas may be formed. Do not mix or store the product or spray solutions in galvanized steel or unlined steel (except stainless steel).

**Incompatible materials:** As above.



**Hazardous decomposition products:** This product is likely to decompose only after heating to dryness, followed by further strong heating. Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke.

**Hazardous reactions:** Avoid contact of the concentrate with strong alkalis and alkaline materials such as lime. Such contact may release isopropylamine vapour with a strong fish like odour, which is an irritant, to eyes. Polymerisation is unlikely.

## 11. TOXICOLOGICAL INFORMATION

### Potential Health Effects:

This product has moderate to high acute oral toxicity. It has low dermal and inhalation toxicity, It is not irritating to the eyes and skin, and is non-sensitizing to the skin. Inhalation of aromatic hydrocarbon vapours may cause dizziness, disturbances in vision, drowsiness, respiratory irritation, and eye, skin and mucous membrane irritation. Vomiting after ingestion of this product may cause aspiration of aromatic hydrocarbons into the lungs, which may result in fatal pulmonary oedema.

### Acute

**Swallowed:** Low toxicity. Direct ingestion may produce gastro-intestinal discomfort, nausea, vomiting and diarrhoea. Ingestion of a large quantity of the undiluted product may result in hypotension and pulmonary oedema. Acute Oral LD50 >10,000mg/kg.

**Eye:** The concentrate may cause irritation of the eyes. Prolonged contact with the concentrate may cause damage to the eye.

**Skin:** This product may be irritating to the skin. Acute dermal LD50 > 5,000mg/kg.

**Inhaled:** Inhalation of mists or sprays may produce respiratory irritation.

### Long Term Exposure:

**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. Laboratory studies show that glyphosate produces reproductive changes in test animals very rarely and then only at very high doses (over 150mg/kg/day). It is unlikely that the compound would produce reproductive effects in humans.

Glyphosate does not appear to be teratogenic, mutagenic or carcinogenic.

## 12. ECOLOGICAL INFORMATION

**Environmental Toxicology:** Glyphosate is not harmful to wild birds. The dietary LC50 in both mallards and bobwhite quail is greater than 4500 ppm. Technical glyphosate acid is practically nontoxic to fish and may be slightly toxic to aquatic invertebrates. The reported 96-hour LC50 values for other aquatic species include greater than 10 mg/L in Atlantic oysters, 934mg/L in fiddler crab, and 281mg/L in shrimp. The 48-hour LC50 for glyphosate



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in Daphnia (water flea), an important food source for freshwater fish, is 780mg/L. Some formulations may be more toxic to fish and aquatic species due to the surfactants used in the formulation. There is a very low potential for the compound to build up in the tissues of aquatic invertebrates or other aquatic organisms. Glyphosate is nontoxic to honeybees. It's oral and dermal LD50 is greater than 0.1mg/bee. The reported contact LC50 values for earthworms in soil are greater than 5000 ppm.

**Environmental Properties:** Glyphosate is moderately persistent in soil, with an estimated average half-life of 47 days. Reported field half-life's range from 1 to 174 days. It is strongly adsorbed to most soils, even those with lower organic and clay content. In water, glyphosate is strongly adsorbed to suspended organic and mineral matter and is broken down primarily by microorganisms. Its half-life in pond water ranges from 12 days to 10 weeks. Glyphosate may be translocated throughout the plant, including to the roots. It is extensively metabolized in some plants, while remaining intact in others.

### 13. DISPOSAL CONSIDERATIONS

**Spills & Disposal:** Isolate and post spill area. Wear prescribed protective clothing and equipment. Large spills should be dyked or covered to prevent dispersal. Keep out animals and unprotected persons. Keep material out of streams and sewers. Vacuum, shovel or pump waste into an approved drum. To decontaminate spill area, tools and equipment, wash with detergent and water and add the solution to the drum of wastes already collected and label contents. Dispose of drummed wastes, including decontamination solution in accordance with the requirements of Local or State Waste Management Authorities.

**Disposal of empty containers:** triple or preferably pressure rinse containers before disposal. Add rinsings to tank mix. Do not dispose of undiluted chemicals on-site. If not recycling, break, crush, or puncture and deliver empty packaging for appropriate disposal to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant Local, State or Territory government regulation. DO NOT burn empty containers or product.

### 14. TRANSPORT INFORMATION

**Road & Rail Transport:** This product is not classified as a Dangerous Goods under the Australian Code for the Transport of Dangerous Goods by Road and Rail. Not classified as a Dangerous Good for marine or air transport. It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.

This product is a Schedule 5 Poison (S5) and must be stored, transported and sold in accordance with the relevant Health Department regulations.



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### 15. REGULATORY INFORMATION

**AICS:** All of the significant ingredients in this formulation are compliant with NICNAS regulations. The following ingredient: Glyphosate, is mentioned in the SUSMP.

### 16. OTHER INFORMATION

All information contained in this document is as accurate as possible based on information submitted by raw material suppliers. **Profeng Australia Pty Ltd** will not be responsible for any damages that may result from reliance on the information contained herein.