

# Garden Genius

# 1. Identification of Substance & Company

**Product** 

Product name Gel Glyphosate

Product code NA

HSNO approval HSR100736

UN number
Proper Shipping Name
NA
DG class
NA
Packaging group
NA
Hazchem code
NA
Uses
NA
herbicide

**Company Details** 

Company Amalgamated Hardware Merchants Ltd (AHM)

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> Manukau, 2241 New Zealand New Zealand

**Telephone** +64 9 2511310 **Faxi** +64 9 2511311

# **Emergency Telephone Number: 0800 764 766**

### 2. Hazard Identification

#### **Approval**

This product has been approved under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR100736), and is classified as follows:

Classes Hazard Statements

9.1D H402 - Harmful to aquatic life.

# **SYMBOLS**

none

### Other Classifications

There are no other Classifications that are known to apply.

### **Precautionary Statements**

P273 - Avoid release to the environment.

### 3. Composition / Information on Ingredients

Component	CAS/ Identification	Class for ingredient(s)	Conc (%)
Glyphosate isopropylamine	38641-94-0	9.1B (algal), 9.1D (fish)	5-10%
ingredients not contributing to HSNO classes	mixture	Not available	balance

This is a commercial product whose exact ratio of components may vary. Trace quantities of impurities are also likely.

## 4. First Aid

#### **General Information**

If medical advice is needed, have product container or label at hand. You should call the National Poisons Centre if you feel that you may have been harmed by this product. The number is 0800 764 766 (0800 POISON) (24 hr emergency service).

**Recommended first aid** Ready access to running water is recommended.

facilities

**Exposure** 

Swallowed Do not induce vomiting, Rinse mouth. See medical attention if needed.

**Eye contact** If product gets in eyes, wash material from them with running water for 15 minutes.

Remove contact lenses if present and easy to do. If symptoms persist, seek medical

advice.

Skin contact Wash with plenty of soap and water. Take off contaminated clothing and wash before

re-use. If skin irritation occurs: get medical advice.

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Inhaled Generally, inhalation of fumes is unlikely to result in adverse health effects. If coughing,

dizziness or shortness of breath is experienced, remove the patient to fresh air immediately. If patient is unconscious, place in the recovery position (on the side) for

transport and contact a doctor.

Advice to Doctor
Treat symptomatically

# 5. Firefighting Measures

Fire and explosion hazards:

Suitable extinguishing

substances:

Unsuitable extinguishing

substances:

Products of combustion:

Protective equipment:

Hazchem code:

There are no specific risks for fire/explosion for this chemical. It is non-flammable. Carbon dioxide, extinguishing powder or water jet. Fight larger fires with water jet or

alcohol resistant foam.

Unknown.

Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Water.

May form toxic mixtures in air and may accumulate in sumps, pits and other low-lying

spaces, forming potentially explosive mixtures.

Self-contained breathing apparatus. Safety boots, non-flammable overalls, gloves, hat

and eye protection.

NA

# 6. Accidental Release Measures

**Containment** If greater than 10000L is stored, secondary containment and emergency plans to

manage any potential spills must be in place. In all cases design storage to prevent

discharge to stormwater.

**Emergency procedures** If a significant spill occurs:

Stop leak if safe/necessary; Isolate area. Collect spill – see below; Transfer to container

for disposal. Dispose of according to guidelines below (Section 13).

clean-up of spills, as they may create fire or environmental hazard. Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or

waterways has occurred advise local emergency services.

**Disposal** Mop up and collect recoverable material into labelled containers for recycling or salvage.

Recycle containers wherever possible. This material may be suitable for approved

landfill. Dispose of only in accord with all regulations.

**Precautions** Spillage may be slippery. Wear protective equipment to prevent skin and eye

contamination and the inhalation of vapours. Work up wind or increase ventilation.

# 7. Storage & Handling

**Storage** Avoid storage of harmful substances with food. Store out of reach of children.

Containers should be kept closed in order to minimise contamination. Keep from extreme heat and open flames. Avoid contact with incompatible substances as listed in

Section 10.

**Handling** Keep exposure to a minimum, and minimise the quantities kept in work areas. See

section 8 with regard to personal protective equipment requirements. Do not eat, drink or

smoke while using. Wash hands and face after use.

# 8. Exposure Controls / Personal Protective Equipment

### **Workplace Exposure Standards**

A workplace exposure standard (WES) has not been established by WorkSafe NZ for this product. There is a general limit of 3mg/m³ for respirable particulates and 10mg/m³ for inhalable particultes when limits have not otherwise been established.

NZ Workplace Exposure Stds (2016) Ingredient

Glyphosate isopropylamine

WES-TWA\*
data unavailable

WES-STEL\*
data unavailable

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\* These workplace exposure standards are also Prescribed Exposure Standards (PES) under the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016.

### **Engineering Controls**

In industrial situations, it is expected that employee exposure to hazardous substances will be controlled to a level as far below the WES as practicable by applying the hierarchy of control required by the Health and Safety at Work Act (2015) and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016.



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**Personal Protective Equipment** 

**Eyes** Protective eyewear is not normally necessary when using this product. However, it

always prudent to use protective eyewear if splashes are likely.

Skin Protective gloves and clothing are not normally necessary. However, it is prudent to

wear gloves when handling chemicals in bulk or for an extended period of time. Respirator is not required under normal use. Ensure adequate natural ventilation. If product is being used in confined conditions, the use of a mask or respirator may be

preferred.

**WES Additional Information** 

Not applicable

Respiratory

# **Physical & Chemical Properties**

**Appearance** opaque gel

Odour Faint characteristic surfactant odour

pН 4-5 Vapour pressure no data **Viscosity** ~40000cPs **Boiling point** no data Volatile materials no data Freezing / melting point no data

Solubility soluble in water Specific gravity / density 1.05 g/ml Flash point will not flash Danger of explosion not explosive **Auto-ignition temperature** no data **Upper & lower flammable limits** no data Corrosiveness non corrosive

#### Stability & Reactivity 10.

Stability Stable

Conditions to be avoided Containers should be kept closed in order to avoid contamination. Keep from extreme

Oxidisers, strong acids and strong alkalis.

heat and open flames.

Incompatible groups

**Substance Specific** 

Incompatibility

Hazardous decomposition

Dermal

Thermal composition may produce toxic fumes. products

**Hazardous reactions** none known

# **Toxicological Information**

#### Summary

No toxic effects are known. EPA has assessed this substance and has not assigned human toxicity classification.

**Supporting Data** 

Acute Oral Using LD<sub>50</sub>'s for ingredients, the calculated LD<sub>50</sub> (oral, rat) for the mixture is >5,000

mg/kg. Data considered includes: Glyphosate isopropylamine: 3800mg/kg (rat) Using LD<sub>50</sub>'s for ingredients, the calculated LD<sub>50</sub> (dermal, rat) for the mixture is >5000

mg/kg. Data considered includes: Glyphosate isopropylamine >2000mg/kg (rat) Inhaled

Using LC<sub>50</sub>'s for ingredients, the calculated LC<sub>50</sub> (inhalation, rat) for the mixture is

>5mg/L. Data considered includes: Glyphosate isopropylamine >5mg/L.

The mixture is not considered to be an eye irritant by EPA. Eye Skin The mixture is not considered to be a skin irritant by EPA.

Chronic Sensitisation No ingredient present at concentrations > 0.1% is considered a sensitizer.

Mutagenicity No ingredient present at concentrations > 0.1% is considered a mutagen. Carcinogenicity No ingredient present at concentrations > 0.1% is considered a carcinogen. Reproductive / No ingredient present at concentrations > 0.1% is considered a reproductive or

Developmental developmental toxicant or have any effects on or via lactation.

**Systemic** No ingredient present at concentrations > 1% is considered a target organ toxicant.

Aggravation of None known.

existing conditions



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# 12. Ecological Data

Summary

This mixture is considered harmful to aquatic life.

**Supporting Data** 

Aquatic Using EC<sub>50</sub>'s for ingredients, the calculated EC<sub>50</sub> for the mixture is between 10 mg/L and

100 mg/L. Data considered includes:

Glyphosate isopropylamine Algae: Acute: 1.2mg/L (96hr, Skeletonema costatum

(diatom)). Chronic: EC<sub>50</sub> 0.77ppm (7 days, Marine diatom),

Fish: Acute: 45mg/L (96hr, Bluegill sunfish), Chronic: NOEC 52mg/L (Salmo gairdnerii)

**Bioaccumulation** LogP = <-3.2 (low)

**Degradability** Biodegradable. DT<sub>50</sub> (soil) 12 days (typical)

**Soil** No evidence of soil toxicity.

Terrestrial vertebrate EPA has not classified the mixture as ecotoxic to terrestrial vertebrates. See acute

toxicity.

**Terrestrial invertebrate** EPA has not classified the mixture as ecotoxic to terrestrial invertebrates. It is

considered non toxic to bees.

**Biocidal** no data

**Environmental effect levels** No EELs are available for this mixture or ingredients

# 13. Disposal Considerations

**Restrictions** There are no product-specific restrictions, however, local council and resource consent

conditions may apply, including requirements of trade waste consents.

**Disposal method**Disposal of this product must comply with the requirements of the Resource Management

Act for which approval should be sought from the Regional Authority. The substance must be treated and therefore rendered non-hazardous before discharge to the

environment.

Contaminated packaging Rinse containers with water before disposal. Preferably re-cycle container, otherwise

send to landfill or similar.

### 14. Transport Information

There are no specific restrictions for this product (not a dangerous good).

UN number:NAProper shipping name:NAClass(es)NAPacking group:NAPrecautions:NAHazchem code:NA

# 15. Regulatory Information

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO). Approval code: HSR100736, Cut'n'Paste (herbicide gel).

### Specific Workplace Controls (as per HSNO approval referenced to Controls Matrix)

Key workplace requirements are:

SDS To be available within 10 minutes in workplaces storing > 1L.

Labelling No removal of labels and/or decanting of product into other containers can occur.

Emergency plan Required if > 10000L is stored.

Approved handler Not required Tracking Not required

Bunding & secondary containment Required if > 10000L is stored.

Signage Required if > 10000L is stored.

Location test certificate Not required.
Flammable zone Not required.
Fire extinguisher Not required.

Note: The above workplace requirements apply if only this particular substance is present. The complete set of controls for a location will depend on the classification and total quantities of other substances present in that location.

# Other Legislation

In New Zealand, the use of this product may come under the Resource Management Act and Regulations, the Health and Safety at Work Act 2015 and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016, local Council Rules and Regional Council Plans.

All aspects of storage, handling use, disposal and record keeping must be in accordance with NZS 8409:2004 "Management of Agrichemicals".



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#### 16. Other Information

**Abbreviations Approval Code** 

Approval HSR100736, Cut'n'Paste (herbicide gel) Controls, EPA. www.epa.govt.nz

**CAS Number** Unique Chemical Abstracts Service Registry Number

Ceiling

Ceiling Exposure Value: The maximum airborne concentration of a biological or chemical

agent to which a worker may be exposed at any time.

EC<sub>50</sub>

Ecotoxic Concentration 50% - concentration in water which is fatal to 50% of a test

population (e.g. daphnia, fish species)

FΡΔ

Environmental Protection Authority (New Zealand)

**HAZCHEM Code** 

Emergency action code of numbers and letters that provide information to emergency

services, especially fire fighters

**HSNO IARC** 

Hazardous Substances and New Organisms (Act and Regulations)

LEL

International Agency for Research on Cancer

I D50

Lower Explosive Limit Lethal Dose 50% – dose which is fatal to 50% of a test population (usually rats).

LC<sub>50</sub>

Lethal Concentration 50% - concentration in air which is fatal to 50% of a test population

(usually rats)

MSDS (SDS)

Material Safety Data Sheet (or Safety Data Sheet)

**PES** 

Prescribed Exposure Standard means a WES or a biological exposure standard that is prescribed in a regulation, a safe work instrument or an approval under HSNO (including

group standards).

**STEL** 

Short Term Exposure Limit - The maximum airborne concentration of a chemical or biological agent to which a worker may be exposed in any 15 minute period, provided the

TWA is not exceeded

**TWA** 

Time Weighted Average – generally referred to WES averaged over typical work day

(usually 8 hours)

HEL **UN Number**  **Upper Explosive Limit** United Nations Number

**WES** 

Workplace Exposure Standard - The airborne concentration of a biological or chemical agent to which a worker may be exposed during work hours (usually 8 hours, 5 days a week). The WES relates to exposure that has been measured by personal monitoring

using procedures that gather air samples in the worker's breathing zone.

References

Data

Unless otherwise stated comes from the EPA HSNO chemical classification information

database (CCID).

**EPA Transfer Gazettes** 

**WES 2016** 

Other References:

Classifications and controls assigned for specific ingredients (consolidated gazette, 2004) The NZ Workplace Exposure Standards Effective from 2016, published by WorkSafe NZ

and available on their web site - www.worksafe.govt.nz.

**WES 2002** 

Workplace Exposure Standards published by the Occupational Safety and Health

Service, Department of Labour, January 2002, ISBN 0-477-03660-0. These are the WES referred to under the Group Standard (HSNO approval) and may constitute a PES.

Suppliers SDS

Review

Date Reason for review **REVIEW DATE** 

Not applicable - new SDS

### **Disclaimer**

This SDS was prepared by Datachem LTD and is based on our current state of knowledge, including information obtained from suppliers. The SDS is given in good faith and constitutes a guideline (not a guarantee of safety). The level of risk each substance poses is relevant to its properties (as summarised in the SDS) AND HOW THE SUBSTANCE IS USED. While guidelines are given for personal protective equipment, such precautions must be relevant to the use. The likely HSNO classifications for this SDS have been estimated based on general information from the supplier (e.g., hazard, toxicological). This SDS is copyright Datachem and must not be copied, edited or used for other than intended purpose. To contact the SDS author, email info@datachem.co.nz or phone: +64 9 940 30 80.

