

# 1: Identification of the Substance and Supplier

Product Name GNARLY
Recommended Use Adjuvant

**Suppliers Details** Orion AgriScience Ltd

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 Emergency Telephone
 0800 CHEMCALL (0800 243 622) (24 hours)

 National Poison Centre
 0800 POISON (0800 764 766) (24 hours)

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# 2: Hazards Identification

#### **Hazard Pictograms**



#### **Signal Words**

### **Hazard Classes:**

6.1D Acute Toxicity Inhalation (Cat. 4)

6.1E Acute Toxicity Oral (Cat. 5)

6.1E Acute Toxicity Dermal (Cat. 5)

6.3B Skin Irritation (Cat. 3)

6.4A Eye Irritation (Cat. 2)

9.1C Aquatic Ecotoxicity Chronic (Cat. 3)

# Precautionary Statements:

Prevention

#### Warning

#### **Hazard Statements:**

H332 Harmful if inhaled

H303 May be harmful if swallowed

H313 May be harmful in contact with skin

H316 Causes mild skin irritation

H319 Causes serious eye irritation

H412 Harmful to aquatic life with long lasting effects

P101 If medical advice is needed, have product container or label at hand

P102 Keep out of reach of children

P103 Read carefully and follow all instructions

P261 Avoid breathing dust/fume/gas/mist/vapours/spray

P271 Use only outdoors or in a well ventilated area

P264 Wash hands thoroughly after handling

P280 Wear eye protection / face protection

Read label before use. Avoid contact with eyes and skin. Do not breathe in the spray mist. When mixing or applying, wear personal protection as described in section 8. Take all reasonable steps to ensure that this product does not cause any significant adverse effects to the environment beyond the application area. Do not apply directly into or

onto water.

P304+P340 IF INHALED: Move person to fresh air and keep comfortable for breathing

P317 Get medical help

P301+P317 IF SWALLOWED: Get medical help P302+P317 IF ON SKIN: Get medical help

P332+P317 If skin irritation occurs get medical help

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

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

P337+P317 If eye irritation persists: Get medical help

Response



First aid measures described in section 4. Contain and collect spillage for disposal. In an emergency call 111, Police or Fire Brigade. For specialist advice in an emergency only,

call 0800 CHEMCALL (0800 243 6225) (24 hrs).

Storage Keep out of reach of children.

Disposal P501 Dispose of contents by using it in accordance with this label. Dispose of the

container via AgRecovery after triple rinsing (use the rinsate for spraying).

3: Composition/ Information on Ingredients

Ingredient CAS No Content (% w/v)

Polyalkyleneoxide modified heptamethyltrisiloxane 67674-67-3 <10
Secondary alcohol ethoxylate Proprietary <10

Other ingredients Proprietary Remainder

4: First Aid Measures

If medical advice is needed, have product container or label at hand. For advice call the National Poisons Centre or a Doctor

**Ingestion:** Seek medical advice if feeling unwell

**Skin Contact:** Wash with plenty of soap and water. Seek medical advice if irritation occurs.

**Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if easy to do so. Continue rinsing.

Seek medical advice if irritation persists.

**Inhalation:** Remove to fresh air and keep at rest in a position comfortable for breathing. Seek medical advice

immediately.

Workplace Facilities: Hand wash facility. Eye wash facility

Advice to Doctor: No specific antidote. Treat symptomatically
National Poison Centre 0800 POISON (0800 764 766) (24 hours)

Symptoms of Exposure which could occur if this material is not handled in accordance with instructions:

**Ingestion:** No data available

Skin Contact: Irritation

**Eye Contact:** Serious irritation **Inhalation:** No data available

5: Fire-Fighting Measures

Fire/Explosion Hazard

HAZCHEM Code

Rot applicable

ERP Guide No

Not applicable

**Extinguishing Media** Water spray, foam, dry chemical or C02. Avoid water jet.

**Fire Fighting Instructions**During a fire, toxic fumes may be emitted. Wear self-contained breathing apparatus. Contain runoff.

Specific Hazards Arising from Fire No data available

**6: Accidental Release Measures** 

**Personal Precautions**Caution: Floors may be slippery if wet. Wear personal protective clothing and equipment as described in

section 8. Exclude non-essential people from the area.

Environmental Precautions Prevent further spillage or leakage. Prevent material from entering drains, waterways, etc.

**Clean Up**Absorb spillage with inert material such as spill kit, sand or cat litter. Collect and place in a sealable

container for disposal. Wash down affected area with water and detergent. Absorb and collect washings for

disposal. Dispose of safely to a suitable landfill.

7: Handling and Storage

**Storage:** Keep out of reach of children. Store in the original tightly closed container in a secure area.

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Handling and Use: Keep out of reach of children. Refer to Prevention statements in section 2 above. Keep people and animals

away from the area while spraying and for the duration of the REI.

REI Until spray has dried

### 8: Exposure Controls / Personal Protection

**Tolerable Exposure Limit** None established **Workplace Exposure Standards** None established

**Engineering Controls** Select spray application equipment to minimize exposure to operator and bystanders

**Personal Protection:** 

Safety glasses/goggles when mixing or applying Eye

Skin Cotton overalls snugly fitting at the neck, wrist and ankle, boots and waterproof gloves when mixing and

applying

Respiratory Not required where spray mist is not inhaled. Otherwise, respirator (organic vapour and particulate matter)

is required.

Clean protective equipment after use

### 9: Physical and Chemical Properties

Amber Liquid **Appearance** 

Odour Slight

**Odour Threshold** No data available No data available pН Melting Point/Freezing Point No data available

> 150°C **Boiling Point** Flash Point > 100°C

**Flammability** No data available **Upper/Lower Flammability Limits** No data available No data available **Vapour Pressure** Vapour Density

Density 0.90 g/mL (approx.)

Solubility in Water Dispersible Partition Coefficient: n-octanol/water See section 12 **Auto ignition Temperature** No data available No data available **Decomposition Temperature** No data available **Kinematic Viscosity** 

# 10: Stability and Reactivity

Stability Stable under normal conditions

**Hazardous Reactions** None Expected Incompatibility None Known **Hazardous Decomposition Products** None Known

#### 11: Toxicological Information

This section describes effects which could occur if this material is not handled in accordance with this data sheet and label instructions

**Acute Oral Toxicity** LD50 > 2000 mg/kg**Acute Dermal Toxicity** LD50 > 2000 mg/kg **Acute Inhalation Toxicity** LD50 > 1 mg/LIrritation

Skin Irritant/Corrosive

Eye Irritant/Corrosive Serious irritation

**Sensitisation Effects** None

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Mutagenic EffectsNoneCarcinogenic EffectsNoneReproductive EffectsNoneSpecific Organ ToxicityNone

### 12: Ecotoxicity Information

This section describes effects which could occur if this material is not handled in accordance with this data sheet and label instructions.

### The following information is presented in respect of the active ingredient:

**Ecotoxicity** 

- Acute Oral LD50 (Rat) >5000 mg/kg
- LC50 (96 hr) (Fish) >10 mg/l
- EC50 (48 hr) (Crustacea) >10 mg/l
- EC50 (72 hr) (Algae) >10 mg/l
- Non toxic to bees

Persistence/degradability

Bioaccumulative Potential

Soil Mobility

No data available

None established

### 13: Disposal Considerations

Product

Dispose of product by using it in accordance with the label. Waste product should be disposed of to a

suitable landfill. For disposal of large quantities contact Orion AgriScience Ltd.

Container

Dispose of to a suitable landfill or via AgRecovery. Do not burn. Do not use packaging for any other

purpose.

# 14: Transport Information

**Dangerous Goods** 

**UN Number** Not Applicable – Not dangerous for transport

**Proper Shipping Name** Not Applicable – Not dangerous for transport

Class Not Applicable – Not dangerous for transport

Subsidiary Class Not Applicable – Not dangerous for transport

Packing Group Not Applicable – Not dangerous for transport

Additional Information Not Applicable – Not dangerous for transport

MTQ (Non-Commercial) Not Applicable – Not dangerous for transport

Passenger Service Vehicle No restriction

#### **15 Regulatory Information**

EPA Approval No

ACVM Registration No

Not required

Qualified Person

Certified Handler

Workplace Only

No

Tracking Not required
Record Keeping Not required

Site Requirements under EPA Notice

and HSWHS Regs:

- A hazardous substance location compliance certificate is not required
- A hazardous area is not required
- Separation distances for class 3 and class 6 substances to protected places and public places is not applicable

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• Fire extinguishers are not required

• Signage is required for more than 1000 litres

• An emergency response plan is required for more than 1000 litres

• Secondary containment is required for more than 1000 litres

Segregation from incompatible substances is not required

Refer to NZS 8409:2004 'Management of Agrichemicals', and relevant local and regional council plans

#### 16: Other Information

**Additional Requirements** 

Glossarv

ADE Acceptable Daily Exposure – A daily dose, received via any route, below which no adverse effects are

expected over a lifetime of exposure

ACVM Agricultural Compounds and Veterinary Medicines group of the Ministry of Primary Industries

Cat. GHS category

Ceiling A concentration that should not be exceeded at any time during any part of the working day

**Certified Handler** A qualification issued by a Compliance Certifier to handle and use particularly toxic substances (6.1A and

6.1B)

**DT50** Time (days) for 50% reduction in concentration

**EC50** Concentration required to produce an effect in 50% of organisms

Environmental Exposure Limit Maximum concentration limit of a substance in an environmental medium, e.g., water, soil.

**EPA Notice** Hazardous Property Controls Notice 2017

ERP Guide Dangerous Goods – Initial Emergency Response Guide SNZ HB 76:2008

GHS Globally harmonized system of classification and labelling of chemicals

**Hazardous Substance Location** For locations storing hazard substances of certain classes above threshold quantities

**Compliance Certificate** 

Hazardous Area A designated area designed for the presence of flammable substances - Refer AS/NZS 60079.10.1:2009

**HAZCHEM Code** Emergency action code for emergency services

**HSWHS Regs** Health and Safety at Work (Hazardous Substances) Regulations 2017

LC50 Concentration that will kill 50% of organisms

**LD50** Dose that will kill 50% or organisms

MTQ Maximum Transport Quantity. The maximum amount of dangerous goods that can be transported by road

by the user

**Notification** Advance notice given to neighbours and other affected parties, of details of proposed application, and

other details as described

Octanol-Water Partition Coefficient

The partition coefficient of a substance between n-octanol and water, used as the Logarithm base 10

form, as an indicator that a substance may bioaccumulate

PDE Permitted Daily Exposure - A daily dose below which no adverse effects are expected over a lifetime of

exposure

**Protected Place** Residential properties, schools, hospitals, kindys, factories, shops, warehouses, etc., and other places where

people assemble

Public Place A place frequented by the public, including roads (does not include private property)

**Qualified Person** A requirement for the loader, contractor or person applying the product to hold a qualification such as a

GROWSAFE Certificate, Unit Standard 21563, etc.

**Record Keeping** Includes a spray diary or other record of application

**REI** Restricted Entry Interval – The length of time after application before entry into the treated area is

permitted without the use of protective equipment. For indoor environments, this time period commences

once ventilation after treatment begins.



**Segregation** Certain classes of substances must not be in contact with, and must be stored separately from, certain

other classes as specified in HSWHS Regs

**Separation Distances** The distances specified in Part 11 and Part 13 of HSWHS Regs between storage and/or use of hazardous

substances and protected places and/or public places

**Signage** Positioned at entrances to commercial premises providing information on the hazardous substances

present

Soil Adsorption Coefficient (Kd)

The ratio of the concentrations of a substance adsorbed onto a solid sorbent to that dissolved in a liquid

phase. The higher the value the less mobile the chemical is in soil

**Soil Organic Carbon-Water**The ratio of the mass of a chemical that is adsorbed in the soil per unit mass of organic carbon in the soil.

Partitioning Coefficient (Koc)

The higher the value the less mobile the chemical is in soil

STEL

Short term exposure level – 15 minute time weighted average

Tolerable Exposure Limit Maximum concentration limit of a substance above which persons must not be exposed

**Tracking** For some particularly hazardous substances, a record must be kept of the transport, storage, sale and use

of the product

TWA Time weighted average calculated over an 8 hour working day

Workplace Exposure Standard An occupational health standard limiting concentrations of specified substances to which persons are

exposed

Workplace Only A product that is restricted to a workplace only and under the supervision of a certified handler

Please Note

Users must ensure that the most up to date version of this safety data sheet is used.

This Safety Data Sheet summarises information on this product, and how to safely handle and use the product. Each user should familiarise themselves with the product label and Safety Data Sheet, and consider the information in the context of how the product will be handled and used, including in conjunction with other products. Orion AgriScience Ltd assumes no responsibility for the accuracy, completeness or suitability of this information. The user is responsible for determining the suitability and accuracy of this information for their particular purposes.

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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