Safety Data Sheet
according to GHS version 7

Printing date 12.05.2023 *Version number 1* *Revision: 12.05.2023*

1 Identification

· **Product identifier**

· **Trade name: Greenseal**

· **Article number:** DKJ072
· **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
· **Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
Company: Omnia Specialities Australia Pty Ltd
Address: Tramway Road
MORWELL VIC 3840
Telephone Number: +61-3 5133 9118
Facsimile Number: +61-3 5133 9114

· **Further information obtainable from:** info@omnia.net.au
· **Emergency telephone number:**
ISS First Response
+61 3 8796 3688

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2 Hazard(s) Identification

· **Classification of the substance or mixture**

environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Skin Corr. 3 H316 Causes mild skin irritation.

Aquatic Acute 2 H401 Toxic to aquatic life.

· **Label elements**
· **GHS label elements**
The product is classified and labelled according to the Globally Harmonised System (GHS).
· **Hazard pictograms**

GHS07 GHS09

· **Signal word** Warning

· **Hazard-determining components of labelling:**
Vinyl Acetate-Ethylene Copolymer Emulsion
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)
· **Hazard statements**
H316 Causes mild skin irritation.

(Contd. on page 2)

Safety Data Sheet
according to GHS version 7

Printing date 12.05.2023 Version number 1 Revision: 12.05.2023

Trade name: Greenseal

(Contd. of page 1)

H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.
· **Precautionary statements**
If medical advice is needed, have product container or label at hand.
Keep out of reach of children.
Read carefully and follow all instructions.
Avoid breathing dust/fume/gas/mist/vapours/spray.
Avoid release to the environment.
Wear protective gloves.
If skin irritation or rash occurs: Get medical advice/attention.
Specific treatment (see on this label).
Dispose of contents/container in accordance with local/regional/national/international regulations.
· **Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.

*
3 Composition and Information on Ingredients

· **Chemical characterisation: Mixtures**
· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**		
CAS: 24937-78-8	Vinyl Acetate-Ethylene Copolymer Emulsion Skin Sens. 1, H317	>90-100%
CAS: 57-55-6 EINECS: 200-338-0	Propylene glycol Acute Tox. 5, H333	>1-<5%
CAS: 111-76-2 EINECS: 203-905-0	2-butoxyethanol Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319 Flam. Liq. 4, H227	>1-<5%
CAS: 107534-96-3 ELINCS: 403-640-2	1-(4-chlorophenyl)-4,4-dimethyl-3-(1,2,4-triazol-1-ylmethyl)pentan-3-ol Repr. 2, H361 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Acute Tox. 4, H302	0.3-1%
CAS: 9016-45-9 NLP: 500-024-6	Nonyl Phenol 9EO Eye Dam. 1, H318 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Acute Tox. 4, H302; Acute Tox. 4, H312	0.3-1%
CAS: 55965-84-9	reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331 Skin Corr. 1B, H314 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Skin Sens. 1, H317	<0.1%

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.
· **Other hazards that do not result in classification** None

*
4 First Aid Measures

· **Description of first aid measures**
· **General information:**
When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.

(Contd. on page 3)

Safety Data Sheet
according to GHS version 7

Printing date 12.05.2023 *Version number 1* *Revision: 12.05.2023*

Trade name: Greenseal

(Contd. of page 2)

· ***After inhalation:***
Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.
Call a physician or poison control center immediately.
· ***After skin contact:***
Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes.
Call a physician or poison control center immediately
· ***After eye contact:***
Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
Call a physician or poison control center immediately.
· ***After swallowing:***
Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.
· ***Information for doctor:*** *Treat supportive and symptomatically*
· ***Indication of any immediate medical attention and special treatment needed***
No further relevant information available.

*
5 Fire Fighting Measures

· ***Extinguishing media***
· ***Suitable extinguishing agents:*** *Water spray, Carbon dioxide (CO2), Foam, Sand*
· ***For safety reasons unsuitable extinguishing agents:*** *High volume water jet*
· ***Special hazards arising from the substance or mixture***
In case of fire, the following can be released:
Carbon monoxide (CO)
Hydrogen chloride (HCl)
Nitrogen oxides (NOx)
Ammonia
· ***Advice for firefighters***
If tank, rail car or tank truck is involved in fire, isolate for 800 m in all directions and consider evacuation for 800 meters in all directions.
Small Fire
• Dry chemical, CO2, water spray or regular foam.
Large Fire
• Water spray, fog or regular foam.
• Do not scatter spilled material with high-pressure water streams.
• If it can be done safely, move undamaged containers away from the area around the fire.
• Dike runoff from fire control for later disposal.
Fire Involving Tanks
• Cool containers with flooding quantities of water until well after fire is out.
• Withdraw immediately in case of rising sound from
· ***Protective equipment:***
Mouth respiratory protective device.
In the event of fire and/or explosion do not breathe fumes. Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

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6 Accidental Release Measures

· ***Personal precautions, protective equipment and emergency procedures***
Isolate spill or leak in all directions for at least 50 meters if there is no fire. If there is a fire, refer to section 5.
Increase the immediate precautionary measure distance, in the downwind direction, as necessary.
Wear protective equipment and avoid contact with spilled product or contaminated surfaces.
· ***Environmental precautions:***
Do not allow to enter sewers/ surface or ground water. Should not be released into the environment.

(Contd. on page 4)

Safety Data Sheet
according to GHS version 7

Printing date 12.05.2023 *Version number 1* *Revision: 12.05.2023*

Trade name: Greenseal

(Contd. of page 3)

Inform respective authorities in case of seepage into water course or sewage system.

· ***Methods and material for containment and cleaning up:***
Ensure adequate ventilation.
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect and transfer the product into a properly labelled and tightly closed container. Clean contaminated floors and objects thoroughly, observing environmental regulations.

· ***Reference to other sections***
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

*
7 Handling and Storage

· ***Handling:***
· ***Precautions for safe handling***
Ensure good ventilation/exhaustion at the workplace.
Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.
Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing

· ***Information about fire - and explosion protection:***
Protect from heat.
Keep respiratory protective device available.

· ***Conditions for safe storage, including any incompatibilities***
· ***Storage:***
· ***Requirements to be met by storerooms and receptacles:***
Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed. Keep away from direct sunlight.

· ***Information about storage in one common storage facility:***
Do not store together with oxidizing or reducing agnets
Store away from acids

· ***Further information about storage conditions:*** *None*
· ***Specific end use(s)*** *No further relevant information available.*

*
8 Exposure controls and personal protection

· ***Additional information about design of technical facilities:***
Ensure eyewash stations and safety showers are close to the workstation location.

· ***Control parameters***

· ***Ingredients with limit values that require monitoring at the workplace:***	
107534-96-3 1-(4-chlorophenyl)-4,4-dimethyl-3-(1,2,4-triazol-1-ylmethyl)pentan-3-ol	
OES BCS	*0.2 mg/m3 is control parameter for producer*

· ***Additional information:*** *The lists valid during the making were used as basis.*

· ***Exposure controls***
· ***Personal protective equipment:***
· ***General protective and hygienic measures:***
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes.

· ***Respiratory protection:***
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

(Contd. on page 5)

Safety Data Sheet
according to GHS version 7

Printing date 12.05.2023 Version number 1 Revision: 12.05.2023

Trade name: Greenseal

(Contd. of page 4)

· **Protection of hands:**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**
Chemical-resistant gloves (barrier laminate, butyl rubber, nitrile rubber or Viton)
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:** Safety glasses.

· **Body protection:** Protective work clothing

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9 Physical and Chemical Properties

· **Information on basic physical and chemical properties**	
· **General Information**	
· **Appearance:**	
Form:	Suspension
Colour:	Green
· **Odour:**	Characteristic
· **Odour threshold:**	Not determined.
· **pH-value:**	Not determined.
· **Change in condition**	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	Undetermined.
· **Flash point:**	Not applicable.
· **Flammability (solid, gas):**	Not applicable.
· **Decomposition temperature:**	Not determined.
· **Auto-ignition temperature:**	Product is not selfigniting.
· **Explosive properties:**	Product does not present an explosion hazard.
· **Explosion limits:**	
Lower:	Not determined.
Upper:	Not determined.
· **Vapour pressure:**	Not determined.
· **Density at 20 °C:**	1.06 g/cm³
· **Relative density**	Not determined.
· **Vapour density**	Not determined.
· **Evaporation rate**	Not determined.
· **Solubility in / Miscibility with water:**	Not miscible or difficult to mix.
· **Partition coefficient: n-octanol/water:**	Not determined.

(Contd. on page 6)

Safety Data Sheet
according to GHS version 7

Printing date 12.05.2023 Version number 1 Revision: 12.05.2023

Trade name: Greenseal

(Contd. of page 5)

· **Viscosity:**	
Dynamic:	Not determined.
Kinematic:	Not determined.
· **Solvent content:**	
Organic solvents:	2.4 %
VOC (EC)	2.39 %
· **Other information**	No further relevant information available.

*
10 Stability and Reactivity

· **Reactivity** No further relevant information available.
· **Chemical stability**
· **Thermal decomposition / conditions to be avoided:** May decompose on heating
· **Possibility of hazardous reactions** Reaction with heat or incompatibles may release poisonous fumes
· **Conditions to avoid** Incompatibles and extreme temperatures
· **Incompatible materials:** Alkalies, acids and oxidizers
· **Hazardous decomposition products:**
Carbon monoxide and carbon dioxide
Hydrogen chloride (HCl)
Ammonia
Nitrogen oxides (NOx)

*
11 Toxicological Information

· **Information on toxicological effects**
· **Acute toxicity**
· **Primary irritant effect:**
· **Serious eye damage/irritation** No irritating effect.
· **Additional toxicological information:**
· **Sensitisation** May cause sensitisation by skin contact.

*
12 Ecological Information

· **Toxicity**
· **Aquatic toxicity:**
May cause long lasting harmful effects to aquatic life
Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark.
Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water.
Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent sites.
Apply this product as specified on the label
· **Persistence and degradability** No further relevant information available.
· **Behaviour in environmental systems:**
· **Bioaccumulative potential** No further relevant information available.
· **Mobility in soil** No further relevant information available.
· **Ecotoxical effects:**
· **Remark:** Toxic for fish
· **Additional ecological information:**
· **General notes:**
Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Danger to drinking water if even extremely small quantities leak into the ground.

(Contd. on page 7)

Safety Data Sheet
according to GHS version 7

Printing date 12.05.2023 Version number 1 Revision: 12.05.2023

Trade name: Greenseal

(Contd. of page 6)

Also poisonous for fish and plankton in water bodies.
Toxic for aquatic organisms
· **Results of PBT and vPvB assessment**
· **PBT:** *Not applicable.*
· **vPvB:** *Not applicable.*
· **Other adverse effects** *No further relevant information available.*

*
13 Disposal considerations

· **Waste treatment methods**
· **Recommendation**
Disposal according to local/ official/ national regulations.
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packaging:**
· **Recommendation:**
Do not re-use empty containers.
Triple rinse containers.
Add washings to sprayer at time of filling.
Consult state and local regulations regarding the proper disposal of container.
Follow advice on product label and/or leaflet.

*
14 Transport information

· **UN-Number**	
· **ADG, IMDG, IATA**	*UN3082*
· **UN proper shipping name**	*GreanSeal*
· **ADG**	*UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1-(4-chlorophenyl)-4,4-dimethyl-3-(1,2,4-triazol-1-ylmethyl)pentan-3-ol, Nonyl Phenol 9EO)*
· **IMDG**	*ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1-(4-chlorophenyl)-4,4-dimethyl-3-(1,2,4-triazol-1-ylmethyl)pentan-3-ol, Nonyl Phenol 9EO, reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)), MARINE POLLUTANT*
· **IATA**	*ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1-(4-chlorophenyl)-4,4-dimethyl-3-(1,2,4-triazol-1-ylmethyl)pentan-3-ol, Nonyl Phenol 9EO)*

· **Transport hazard class(es)**

· **ADG**

· **Class**	*9 (M6) Miscellaneous dangerous substances and articles.*

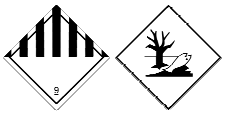
(Contd. on page 8)

Safety Data Sheet
according to GHS version 7

Printing date 12.05.2023 Version number 1 Revision: 12.05.2023

Trade name: Greenseal

(Contd. of page 7)

· **Label**	9
· **IMDG, IATA**	
	
· **Class**	9 Miscellaneous dangerous substances and articles.
· **Label**	9
· **Packing group**	
· **ADG, IMDG, IATA**	III
· **Environmental hazards:**	Product contains environmentally hazardous substances: reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)
· **Marine pollutant:**	Symbol (fish and tree)
· **Special marking (ADG):**	Symbol (fish and tree)
· **Special marking (IATA):**	Symbol (fish and tree)
· **Special precautions for user**	Warning: Miscellaneous dangerous substances and articles.
· **Hazard identification number (Kemler code):**	90
· **EMS Number:**	F-A,S-F
· **Stowage Category**	A
· **ERG No.**	171
· **Transport in bulk according to Annex II of Marpol and the IBC Code**	Not applicable.
· **Transport/Additional information:**	3.3.3AUSTRALIAN SPECIAL PROVISIONS The Special Provisions in this Section 3.3.3 are peculiar to this Code and are therefore not applicable to international transport, or to air or sea transport within Australia. SP No. AU01Environmentally Hazardous Substances meeting the descriptions of UN 3077 or UN 3082 are not subject to this Code when transported by road or rail in; (a)packagings that do not incorporate a receptacle exceeding 500 kg(L); or (b)IBCs.
· **ADG**	
· **Limited quantities (LQ)**	5L
· **Excepted quantities (EQ)**	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· **Transport category**	3
· **Tunnel restriction code**	(-)
· **IMDG**	
· **Limited quantities (LQ)**	5L
· **Excepted quantities (EQ)**	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

(Contd. on page 9)

Safety Data Sheet
according to GHS version 7

Printing date 12.05.2023 Version number 1 Revision: 12.05.2023

Trade name: Greenseal

(Contd. of page 8)

· **UN "Model Regulation":**	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1-(4-CHLOROPHENYL)-4,4-DIMETHYL-3-(1,2,4-TRIAZOL-1-YLMETHYL)PENTAN-3-OL, NONYL PHENOL 9EO), 9, III

*
15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **Australian Inventory of Industrial Chemicals**	
9016-45-9	Nonyl Phenol 9EO
37251-69-7	Oxirane, polymer with methyloxirane,mono(nonylphenyl) ether

· **Standard for the Uniform Scheduling of Medicines and Poisons**		
111-76-2	2-butoxyethanol	S6
107534-96-3	1-(4-chlorophenyl)-4,4-dimethyl-3-(1,2,4-triazol-1-ylmethyl)pentan-3-ol	S5

· **Australia: Priority Existing Chemicals**
None of the ingredients is listed.

· **GHS label elements**
The product is classified and labelled according to the Globally Harmonised System (GHS).
· **Hazard pictograms**

GHS07 GHS09

· **Signal word** Warning

· **Hazard-determining components of labelling:**
Vinyl Acetate-Ethylene Copolymer Emulsion
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)
· **Hazard statements**
H316 Causes mild skin irritation.
H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.
· **Precautionary statements**
If medical advice is needed, have product container or label at hand.
Keep out of reach of children.
Read carefully and follow all instructions.
Avoid breathing dust/fume/gas/mist/vapours/spray.
Avoid release to the environment.
Wear protective gloves.
If skin irritation or rash occurs: Get medical advice/attention.
Specific treatment (see on this label).
Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Directive 2012/18/EU**
· **Named dangerous substances - ANNEX I** None of the ingredients is listed.
· **Seveso category** E2 Hazardous to the Aquatic Environment
· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t
· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t

(Contd. on page 10)

Safety Data Sheet
according to GHS version 7

Printing date 12.05.2023 *Version number 1* *Revision: 12.05.2023*

Trade name: Greenseal

(Contd. of page 9)

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**
H227 Combustible liquid.
H301 Toxic if swallowed.
H302 Harmful if swallowed.
H311 Toxic in contact with skin.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H332 Harmful if inhaled.
H333 May be harmful if inhaled.
H361 Suspected of damaging fertility or the unborn child.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

· **Contact:**

· **Abbreviations and acronyms:**
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 4: Flammable liquids – Category 4
Acute Tox. 3: Acute toxicity – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Acute Tox. 5: Acute toxicity – Category 5
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Skin Corr. 3: Skin corrosion/irritation – Category 3
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
Repr. 2: Reproductive toxicity – Category 2
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard – Category 2
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

· **** Data compared to the previous version altered.***