

Section 1: Identification

Product name: DESIGNER PLUS ®

Other names: None

Recommended use: Adjuvant

Manufacturer/Importer details: AgNova Technologies NZ Ltd
PO Box 301488, Albany
Auckland 0752
Phone: 0800 500 599

24 hour emergency contact: 0800 CHEMCALL (0800 243 622)

National Poisons Centre: 0800 POISON (0800 764 766)

Section 2: Hazard identification

Product is classified as hazardous according to the Hazardous Substances (Hazard Classification) Notice 2020 of the HSNO Act, 1996.

HSNO Approval: HSR002503

Hazardous classification: Hazardous to the aquatic environment (chronic) Category 3

Pictograms: Not required

Signal word: Not required

Hazard statements: H412 Harmful to aquatic life with long lasting effects.

Prevention statements: P103 Read label before use

Response statements: P273 Avoid release to the environment.

Storage statements: Not required

Disposal statement: Not required

Additional Label Requirements: P501 Dispose of product and containers in accordance with local Regulations. See Section 13 for details

Additional Label Requirements: Not required

Section 3: Composition/information on ingredients

Chemical identity of ingredients with health or environmental hazards:

Ingredients	CAS Number	Concentration (%w/w)
Polyalkyleneoxide modified heptamethyltrisiloxane (methyl capped)	27306-78-1	<10
Polyethylene glycol allylmethyl ether	27252-80-8	<10
Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)		<10
Other ingredients*		to 100
*Do not affect hazardous classification of mixture		

Section 4: First-aid measures

First aid measures:	If medical advice is needed, have product container or label at hand. For advice contact National Poisons Centre 0800 POISON [0800 764 766] or a doctor.
Ingestion:	Do NOT induce vomiting. Rinse mouth. If vomiting occurs spontaneously, keep head below hips to avoid aspiration into lungs.
Inhalation:	Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTRE or doctor if symptoms persist.
Skin contact:	Remove contaminated clothing and personal protection equipment. Wash area with plenty of water, then water and neutral soap. Get medical advice if skin irritation or rash occurs. Wash contaminated clothing before reuse.
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTRE or doctor if irritation persists.
First aid facilities:	Provide eye baths and safety showers close to areas where product contact or splashing may occur.
Advice to doctor:	Treat symptomatically.

Section 5: Fire-fighting measures

Flammability:	Non-flammable.
Appropriate extinguishing media:	Recommended to use polyvalent powder extinguisher (ABC powder).
Hazardous decomposition products:	Highly toxic fumes may be generated in event of combustion or thermal decomposition.
Special protective equipment and precautions for fire-fighters:	In the event of fire, wear self-contained breathing apparatus. Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure being built up due to heat. Prevent run-off from contaminating drains, sewers or waterways. Inform appropriate authorities immediately if product or run-off enters waterways.
HAZCHEM code:	Not applicable

Section 6: Accidental release measures

Personal precautions:	Wear protective equipment; chemical resistant coveralls, boots, gloves, eye protection. Do not touch or walk through spilled material. Stop leak when safe to do so. Exclude all bystanders from the vicinity.
Environmental precautions:	Contain and collect spill. Prevent product entering drains or waterways by activating emergency shut-off valves or using bunding. Inform appropriate authorities immediately if spill enters sewers or waterways.
Procedure for clean up:	Contain and recover liquid into a suitable labelled container for disposal. Absorb residue. For small spills use suitable inert material, e.g. sand, vermiculite. Do NOT use combustible materials such as sawdust. Dispose of contaminated waste at an approved facility.

Section 7: Handling and storage

Safe handling:	Read label before use. Wear personal protective equipment. Do not eat, drink or smoke while handling or using.
Safe storage:	To be used only in compliance with HSNO Controls. Keep out of reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from food, drink and animal feeding stuffs. Storage must be in accordance with the current version NZS 8409 Management of Agrichemicals.

Section 8: Exposure controls/personal protection

Occupational exposure limits:	<table><tr><th><i>Ingredient</i></th><th><i>CAS No.</i></th><th><i>WES-TWA</i></th><th><i>WES-STEL</i></th></tr><tr><td></td><td></td><td></td><td></td></tr></table>	<i>Ingredient</i>	<i>CAS No.</i>	<i>WES-TWA</i>	<i>WES-STEL</i>				
<i>Ingredient</i>	<i>CAS No.</i>	<i>WES-TWA</i>	<i>WES-STEL</i>						
Biological limit value:	None set as of WorkSafe's 14 th edition of WES and BEI values, published November 2023.								
Engineering controls:	Control process conditions to avoid contact. Use only in well-ventilated areas or outdoors. If necessary, use local exhaust ventilation.								
Respiratory protection:	Wear half or full mask fitted with gas/vapour filter when mixing or applying and risk of inhaling mist/vapour.								
Hand protection:	Elbow length, chemical resistant gloves, e.g. nitrile.								
Eye protection:	Safety glasses with side shields.								
Skin protection:	Overalls and chemical resistant boots/footwear. Disposable overalls recommended.								
General hygiene:	Do not eat, drink or smoke while using. Wash hands and exposed skin thoroughly with soap and water before rest breaks, meals and after work. Wash protective clothing daily after work.								
Personal Protection:	Further information on specific types of personal protective gear and related standards is available in Section 16.								

Section 9: Physical and chemical properties

(a)	Appearance:	Green liquid.
(b)	Odour:	Characteristic
(c)	Odour threshold:	Not available
(d)	pH:	7.0 – 8.5
(e)	Melting point/freezing point:	Not available
(f)	Initial boiling point:	100°C
(g)	Flash point:	>93°C
(h)	Flammability (solid, gas):	Not applicable.
(i)	Upper/lower flammability or explosive limits:	Not available
(j)	Vapour pressure:	Not applicable

(k)	Vapour density:	Not applicable
(l)	Relative density:	1.00 – 1.04 at 20°C
(m)	Solubility:	Miscible in water
(n)	Partition coefficient: n-octanol/water:	Not available
(o)	Auto-ignition temperature:	360°C
(p)	Decomposition temperature:	Not available
(q)	Kinematic viscosity:	Not applicable
(r)	Particle characteristics	Not applicable

Section 10: Stability and reactivity

Stability of the substance:	Product is unlikely to react or decompose under normal conditions of storage and use.
Conditions to avoid:	Contact with incompatible materials.
Incompatible materials:	Strong acids, alkalis and strong bases. Direct contact with oxidising materials.
Hazardous decomposition products:	Thermal decomposition can lead to release of: Carbon oxides and organic compounds

Section 11: Toxicological information

	<p>Toxicological classifications are determined by mixture assessment of ingredient information.</p> <p>a) Acute oral toxicity: Not classified but mixture contains substances that are classified.</p> <p>b) Acute inhalation toxicity: Not classified but mixture contains substances that are classified.</p> <p>c) Acute dermal toxicity: Not classified but mixture contains substances that are classified.</p> <p>d) Skin corrosion/irritation: Not classified but mixture contains substances that are classified.</p> <p>e) Serious eye damage/Irritation: Not classified but mixture contains substances that are classified.</p> <p>f) Respiratory or Skin Sensitisation: Not classified but mixture contains substances that are classified as contact skin sensitisers.</p> <p>g) Germ cell mutagenicity: Not classified.</p> <p>h) Carcinogenicity: Not classified.</p> <p>i) Reproductive toxicity: Not classified.</p> <p>j) Developmental toxicity: Not classified.</p> <p>k) Specific target organ toxicity: Not classified but mixture contains substances that can be classified.</p> <p>l) Other adverse effects: None identified.</p>
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<p>m) Toxicological information of ingredients:</p>	<p>Polyethylene glycol allylmethyl ether Oral LD50 (Rat) 500 mg/kg</p> <p>Polyalkyleneoxide modified heptamethyltrisiloxane (methyl capped) Inhalation LC50 11 mg/L (ATEi)</p> <p>Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) Oral LD50 (Rat) 64 mg/kg Dermal LD50 (Rabbit) 87.12 mg/kg Inhalation LC50 (rat) 0.33 mg/L (4hr)</p>
<p>Section 12: Ecological information</p>	
<p>(a) Aquatic ecotoxicity: (b) Soil ecotoxicity: (c) Terrestrial vertebrate ecotoxicity: (d) Terrestrial invertebrate ecotoxicity: (e) Persistence and degradability: (f) Potential to be bioaccumulative: (g) Mobility in soil: (h) Ecotoxicological information ingredients:</p>	<p>Ecotoxicological classifications determined by mixture assessment of ingredient information.</p> <p>Harmful to aquatic life with long-lasting effects. Not classified. Not classified. Not classified. Not available. Not available. Not available.</p> <p>Polyalkyleneoxide modified heptamethyltrisiloxane (methyl capped) Fish, LC50 (96 hr) >1-10 mg/L Crustacean EC50 (48 hr) >1-10 mg/L Algae EC50 (72 hr) >1-10 mg/L</p> <p>Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) Fish, LC50 (96 hr) >0.1-1 mg/L Crustacean EC50 (48 hr) >0.1-1 mg/L Algae EC50 (72 hr) >0.1-1 mg/L</p>
<p>Section 13: Disposal considerations</p>	
<p>Product disposal: Container disposal:</p>	<p>Dispose of this product only by using according to the label or through a chemical disposal service. Do not allow material to contaminate ground water system or surface water.</p> <p>Triple rinse container and use residue as make up water in mixture. Recycle clean, empty container through approved recycling service if possible, or crush and bury in an approved landfill. Do not use container for any other purpose. Avoid contamination of any water supply or stream with product or empty container.</p>

Section 14: Transport information

UN number: Non-regulated
UN proper shipping name:
UN class:
Packing group:
HAZCHEM:
Marine pollutant:
Special precautions:

Section 15: Regulatory information

HSNO: Approved substance under the HSNO Act 1996.
Substance approval number: HSR002503

Tolerable exposure limit /
environmental exposure limit: None set.
See www.epa.govt.nz

HSNO controls: Qualifications No
Additional controls: Tracking: No
Safety Data Sheet: Any quantity
Restricted to workplace only: No
Quantity that must be
secured when unattended: -
Fire extinguishers No
Quantity for secondary
containment and emergency
response plan: 1000 L
Quantity for signage: 1000 L
Quantity for Location
certificate -
Records of use (3 kg or more
applied to area within 24
hours) No
Quantity that requires
management in accordance
with HSW HS Regulations -
Hazardous Substances UN Pack Group III
(Packaging) Notice 2017;
Clause 9

Additional information: Refer to WorkSafe for additional information on controls in the
workplace; www.worksafe.govt.nz.

ACVM: Exempt registration under the Agricultural Compounds Veterinary
Medicines Act 1997.

Registration number: Not required

Conditions of registration: See www.foodsafety.govt.nz

Section 16: Other information

Date of issue: 23/08/2024
Reason for reissue: New SDS
Replaces: Not applicable

Information references: Supplier Safety Data Sheet
NZ EPA Approved hazardous substances databases.
Workplace Exposure Standards and Biological Exposure Indices

Abbreviations:	<p>ACVM: Agricultural Chemicals and Veterinary Medicines Group Bw: Bodyweight. HSNO: Hazardous substances and New Organisms Act 1996 (HSNO Act) EPA: Environmental Protection Authority of New Zealand CAS Number: Chemical Abstracts Service Number LD50: Lethal Dose 50% (Population) LC50: Lethal Concentration 50% (Population) WES-TWA: Workplace exposure standards – Time-weighted average WES-STEL: Workplace exposure standards – Short-term exposure limit</p>
Personal Protection Standards:	<p>The following Standards provide general advice regarding safety clothing and equipment: Respiratory equipment: AS/NZS 1715, Protective Gloves: AS 2161, Occupational Protective Clothing: AS/NZS 4501, Industrial Eye Protection: AS1336 and AS/NZS 1337, Occupational Protective Footwear: AS/NZS2210</p>

The data provided in this safety data sheet is based on current knowledge and experience. The purpose of this document is to describe the product in terms of its safety requirements. The above details do not imply any guarantee concerning composition, properties or performance of the product.

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