

# **GUANIDINOACETIC ACID (2,2-D2, 97%)**

# **Novachem Pty Ltd**

Chemwatch Hazard Alert Code: 0

Issue Date: **22/08/2022**Print Date: **22/08/2022**S.GHS.AUS.EN

Part Number: **DLM-9998**Version No: **1.1**Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements

## SECTION 1 Identification of the substance / mixture and of the company / undertaking

Р	ro	d١	uct	Identifier
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Product name	GUANIDINOACETIC ACID (2,2-D2, 97%)		
Chemical Name	Guanidineacetic acid-2,2-d2		
Synonyms	Not Available		
Other means of identification	DLM-9998		
CAS number	1173020-63-7*		

## Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	For professional use only

### Details of the supplier of the safety data sheet

Registered company name Novachem Pty Ltd		Novachem Pty Ltd	
Address 25 Crissane Road, Heidelberg West Victoria 3081 Australia		25 Crissane Road, Heidelberg West Victoria 3081 Australia	
<b>Telephone</b> +61384151255		+61384151255	
Fax +61386250088		+61386250088	
Website www.novachem.com.au		www.novachem.com.au	
Email	novachem@novachem.com.au	novachem@novachem.com.au	

## Emergency telephone number

Association / Organisation	Victorian Poisons Information Centre	Victorian Poisons Information Centre	
Emergency telephone numbers 13 11 26		13 11 26	
Other emergency telephone numbers Not Available		Not Available	

# **SECTION 2 Hazards identification**

## Classification of the substance or mixture

## NON-HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

# ChemWatch Hazard Ratings

	Min	Max	
Flammability	0		
Toxicity	0		0 = Minimum
Body Contact	0	1	1 = Low 2 = Moderate 3 = High 4 = Extreme
Reactivity	0	- :	
Chronic	0	i	

Poisons Schedule	Not Applicable
Classification [1]	Not Applicable

## Label elements

Hazard pictogram(s)	Not Applicable
Signal word	Not Applicable

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Not Applicable

Precautionary statement(s) Prevention

Not Applicable

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Precautionary statement(s) Response

Not Applicable

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

Not Applicable Not Applicable

### **SECTION 3 Composition / information on ingredients**

#### Substances

CAS No	%[weight]	Name
1173020-63-7*	100	GUANIDINOACETIC ACID (2,2-D2, 97%)

Legend:

1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L;

\* EU IOELVs available

#### **Mixtures**

See section above for composition of Substances

### **SECTION 4 First aid measures**

## Description of first aid measures

bestription of first and measures		
Eye Contact  If this product comes in contact with eyes:  Wash out immediately with water.  If irritation continues, seek medical attention.  Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.		
Skin Contact	If skin or hair contact occurs:  Flush skin and hair with running water (and soap if available).  Seek medical attention in event of irritation.	
Inhalation	If fumes, aerosols or combustion products are inhaled remove from contaminated area.     Other measures are usually unnecessary.	
Ingestion	<ul> <li>Immediately give a glass of water.</li> <li>First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>	

## Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## **SECTION 5 Firefighting measures**

## Extinguishing media

- ▶ There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

## Special hazards arising from the substrate or mixture

Fire Incompatibility	None known.		
Advice for firefighters			
Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves in the event of a fire.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Use fire fighting procedures suitable for surrounding area.</li> </ul>		
Fire/Explosion Hazard	<ul> <li>Non combustible.</li> <li>Not considered a significant fire risk, however containers may burn.</li> </ul>		
HAZCHEM	Not Applicable		

# **SECTION 6 Accidental release measures**

## Personal precautions, protective equipment and emergency procedures

See section 8

### **Environmental precautions**

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See section 12

### Methods and material for containment and cleaning up

#### Clean up all spills immediately. Avoid contact with skin and eves **Minor Spills**

- Wear impervious gloves and safety glasses.
- Use dry clean up procedures and avoid generating dust.
- ▶ Clear area of personnel and move upwind.
  - Alert Fire Brigade and tell them location and nature of hazard.
    - ▶ Control personal contact with the substance, by using protective equipment and dust respirator.
    - Prevent spillage from entering drains, sewers or water courses.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

## **SECTION 7 Handling and storage**

#### Precautions for safe handling

## Safe handling

**Major Spills** 

- Limit all unnecessary personal contact.
- Wear protective clothing when risk of exposure occurs.
- Use in a well-ventilated area.
- Avoid contact with incompatible materials.

## Other information

- Store in original containers.
- Keep containers securely sealed.
- Store in a cool, dry area protected from environmental extremes.
- Store away from incompatible materials and foodstuff containers.

### Conditions for safe storage, including any incompatibilities

#### Suitable container

- Lined metal can, lined metal pail/ can.
- Plastic pail.
- Polyliner drum.
- Packing as recommended by manufacturer.

## Storage incompatibility

Avoid contamination of water, foodstuffs, feed or seed.

None known















- Must not be stored together
- May be stored together with specific preventions
- May be stored together

Note: Depending on other risk factors, compatibility assessment based on the table above may not be relevant to storage situations, particularly where large volumes of dangerous goods are stored and handled. Reference should be made to the Safety Data Sheets for each substance or article and risks assessed accordingly.

## SECTION 8 Exposure controls / personal protection

## **Control parameters**

Occupational Exposure Limits (OEL)

### INGREDIENT DATA

Not Available

### **Emergency Limits**

Ingredient	TEEL-1	TEEL-2	TEEL-3
GUANIDINOACETIC ACID (2,2-D2, 97%)	Not Available	Not Available	Not Available
	a		

Ingredient	Original IDLH	Revised IDLH
GUANIDINOACETIC ACID (2,2-D2, 97%)	Not Available	Not Available

### **Exposure controls**

#### Appropriate engineering controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.

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### Personal protection Safety glasses with side shields Chemical goggles. Eye and face protection • Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Skin protection See Hand protection below The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical 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. The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice. Hands/feet protection Personal hygiene is a key element of effective hand care. Experience indicates that the following polymers are suitable as glove materials for protection against undissolved, dry solids, where abrasive particles are not present. polychloroprene. nitrile rubber. butyl rubber. **Body protection** See Other protection below No special equipment needed when handling small quantities. OTHERWISE: Other protection Overalls. Barrier cream. ► Eyewash unit.

#### Respiratory protection

Particulate. (AS/NZS 1716 & 1715, EN 143:2000 & 149:001, ANSI Z88 or national equivalent)

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	P1 Air-line*	-	PAPR-P1
up to 50 x ES	Air-line**	P2	PAPR-P2
up to 100 x ES	-	P3	-
		Air-line*	-
100+ x ES	-	Air-line**	PAPR-P3

\* - Negative pressure demand \*\* - Continuous flow

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

- · Respirators may be necessary when engineering and administrative controls do not adequately prevent exposures.
- The decision to use respiratory protection should be based on professional judgment that takes into account toxicity information, exposure measurement data, and frequency and likelihood of the worker's exposure ensure users are not subject to high thermal loads which may result in heat stress or distress due to personal protective equipment (powered, positive flow, full face apparatus may be an option).
- · Published occupational exposure limits, where they exist, will assist in determining the adequacy of the selected respiratory protection. These may be government mandated or vendor recommended.
- · Certified respirators will be useful for protecting workers from inhalation of particulates when properly selected and fit tested as part of a complete respiratory protection program.
- · Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)
- · Use approved positive flow mask if significant quantities of dust becomes airborne.
- $\cdot$  Try to avoid creating dust conditions.

## **SECTION 9 Physical and chemical properties**

nformation on basic physical and chemical properties			
Appearance	white crystalline		
Physical state	Solid	Relative density (Water = 1)	Not Available
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	3000	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	119.12

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Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Available	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Applicable
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Partly miscible	pH as a solution (Not Available%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

# **SECTION 10 Stability and reactivity**

Reactivity	See section 7
Chemical stability	Product is considered stable and hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

# **SECTION 11 Toxicological information**

Information	on	toxicolog	lsoir	effects

formation on toxicological ef	ffects		
Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.		
Ingestion	The material has <b>NOT</b> been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.		
Skin Contact	The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.		
Eye	Although the material is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may cause transient discomfort characterised by tearing or conjunctival redness (as with windburn). Slight abrasive damage may also result.		
Chronic	Long-term exposure to the product is not thought to produce chronic models); nevertheless exposure by all routes should be minimised as	effects adverse to the health (as classified by EC Directives using animal s a matter of course.	
GUANIDINOACETIC ACID	тохісіту	IRRITATION	
(2,2-D2, 97%)	Not Available	Not Available	
GUANIDINOACETIC ACID	TOXICITY	IRRITATION	
(2,2-D2, 97%)	Not Available	Not Available	
Legend:	Nalue obtained from Europe ECHA Registered Substances - Acute     specified data extracted from RTECS - Register of Toxic Effect of che	e toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise emical Substances	

Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×

X − Data either not available or does not fill the criteria for classification
 ✓ − Data available to make classification

## **SECTION 12 Ecological information**

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	Endpoint	Test Duration (hr)	Species	Value	Source
GUANIDINOACETIC ACID (2,2-D2, 97%)	Not Available	Not Available	Not Available	Not Available	Not Available
OUANIDING ACETIC ACID	Endpoint	Test Duration (hr)	Species	Value	Source
GUANIDINOACETIC ACID (2,2-D2, 97%)	Not Available	Not Available	Not Available	Not Available	Not Available
Legend:	Ecotox databa	n 1. IUCLID Toxicity Data 2. Europe ECHA Registera ase - Aquatic Toxicity Data 5. ECETOC Aquatic Haza ation Data 8. Vendor Data			

## Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
	No Data available for all ingredients	No Data available for all ingredients

## **Bioaccumulative potential**

Ingredient	Bioaccumulation
	No Data available for all ingredients

## Mobility in soil

Ingredient	Mobility
	No Data available for all ingredients

## **SECTION 13 Disposal considerations**

### Waste treatment methods

Product / Packaging disposal

- Recycle wherever possible or consult manufacturer for recycling options.
- Consult State Land Waste Management Authority for disposal.
- ▶ Bury residue in an authorised landfill.
- Recycle containers if possible, or dispose of in an authorised landfill.

## **SECTION 14 Transport information**

## Labels Required

Marine Pollutant	NO
HAZCHEM	Not Applicable

Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
GUANIDINOACETIC ACID (2,2-D2, 97%)	Not Available

# Transport in bulk in accordance with the ICG Code

Product name	Ship Type
GUANIDINOACETIC ACID (2,2-D2, 97%)	Not Available

## **SECTION 15 Regulatory information**

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

GUANIDINOACETIC ACID (2,2-D2, 97%) is found on the following regulatory lists

Not Applicable

## **National Inventory Status**

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	No (GUANIDINOACETIC ACID (2,2-D2, 97%))
Canada - DSL	No (GUANIDINOACETIC ACID (2,2-D2, 97%))

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National Inventory	Status
Canada - NDSL	No (GUANIDINOACETIC ACID (2,2-D2, 97%))
China - IECSC	No (GUANIDINOACETIC ACID (2,2-D2, 97%))
Europe - EINEC / ELINCS / NLP	No (GUANIDINOACETIC ACID (2,2-D2, 97%))
Japan - ENCS	No (GUANIDINOACETIC ACID (2,2-D2, 97%))
Korea - KECI	No (GUANIDINOACETIC ACID (2,2-D2, 97%))
New Zealand - NZIoC	No (GUANIDINOACETIC ACID (2,2-D2, 97%))
Philippines - PICCS	No (GUANIDINOACETIC ACID (2,2-D2, 97%))
USA - TSCA	No (GUANIDINOACETIC ACID (2,2-D2, 97%))
Taiwan - TCSI	No (GUANIDINOACETIC ACID (2,2-D2, 97%))
Mexico - INSQ	No (GUANIDINOACETIC ACID (2,2-D2, 97%))
Vietnam - NCI	No (GUANIDINOACETIC ACID (2,2-D2, 97%))
Russia - FBEPH	No (GUANIDINOACETIC ACID (2,2-D2, 97%))
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.

### **SECTION 16 Other information**

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Initial Date	22/08/2022

#### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

### **Definitions and abbreviations**

PC-TWA: Permissible Concentration-Time Weighted Average

PC-STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit。

IDLH: Immediately Dangerous to Life or Health Concentrations

ES: Exposure Standard

OSF: Odour Safety Factor NOAEL :No Observed Adverse Effect Level

LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value

LOD: Limit Of Detection

OTV: Odour Threshold Value

BCF: BioConcentration Factors

BEI: Biological Exposure Index

AIIC: Australian Inventory of Industrial Chemicals

DSL: Domestic Substances List

NDSL: Non-Domestic Substances List

IECSC: Inventory of Existing Chemical Substance in China

EINECS: European INventory of Existing Commercial chemical Substances

ELINCS: European List of Notified Chemical Substances

NLP: No-Longer Polymers

ENCS: Existing and New Chemical Substances Inventory

KECI: Korea Existing Chemicals Inventory

NZIoC: New Zealand Inventory of Chemicals

PICCS: Philippine Inventory of Chemicals and Chemical Substances

TSCA: Toxic Substances Control Act

TCSI: Taiwan Chemical Substance Inventory

INSQ: Inventario Nacional de Sustancias Químicas

NCI: National Chemical Inventory

FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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