

# N-Acetyl Glyphosate-d3 Novachem Pty Ltd

Version No: 2.2

Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements

Chemwatch Hazard Alert Code: 3

Issue Date: **17/07/2023** Print Date: **17/07/2023** S.GHS.AUS.EN

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

Product Identifier	
Product name	N-Acetyl Glyphosate-d3
Chemical Name	N-Acetyl Glyphosate D3
Synonyms	TRC-A178248-2.5MG
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Other means of identification	TRC-A178248-2.5MG
CAS number	1346604-36-1*

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

Relevant identified uses Reference material for laboratory use only

#### Details of the manufacturer or 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	
Telephone	<b>Telephone</b> +61384151255 +61384151255		
Fax	Fax +61386250088 +61386250088		
Website www.novachem.com.au 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

	• • • • • • • • • • • • • • • • • • • •		
Poisons Schedule	Not Applicable		
Classification [1]	Serious Eye Damage/Eye Irritation Category 1, Hazardous to the Aquatic Environment Long-Term Hazard Category 2		
Legend: 1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI			

#### Label elements

Hazard pictogram(s)





Signal word

Danger

#### Hazard statement(s)

H318	Causes serious eye damage.
H411	Toxic to aquatic life with long lasting effects.

Version No: 2.2 Page 2 of 8 Issue Date: 17/07/2023 Print Date: 17/07/2023

#### N-Acetyl Glyphosate-d3

P280	Wear protective gloves, protective clothing, eye protection and face protection.
P273	Avoid release to the environment.

#### Precautionary statement(s) Response

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
P310	Immediately call a POISON CENTER/doctor/physician/first aider.		
P391	Collect spillage.		

#### Precautionary statement(s) Storage

Not Applicable

#### Precautionary statement(s) Disposal

P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

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

#### Substances

CAS No	%[weight]	Name
1346604-36-1*	100	N-Acetyl Glyphosate-D3

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	of first aid	l measures
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Eye Contact	If this product comes in contact with the eyes:  Immediately hold eyelids apart and flush the eye continuously with running water.  Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.  Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.  Transport to hospital or doctor without delay.  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	<ul> <li>If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> </ul>
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 In a sum of the life.

	None known.		
Advice for firefighters			
Fire Fighting  Fire Fighting  Alert Fire Brigade and tell them location and nature of hazard.  Wear breathing apparatus plus protective gloves in the event of a fire.  Prevent, by any means available, spillage from entering drains or water courses.  Use fire fighting procedures suitable for surrounding area.			

# Fire/Explosion Hazard

- Non combustible.
- ▶ Not considered a significant fire risk, however containers may burn.

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# **SECTION 6 Accidental release measures**

Version No: 2.2 Page 3 of 8

#### N-Acetyl Glyphosate-d3

Issue Date: 17/07/2023 Print Date: 17/07/2023

#### Personal precautions, protective equipment and emergency procedures

See section 8

#### **Environmental precautions**

See section 12

# Methods and material for containment and cleaning up

Environmental hazard - contain spillage. Clean up all spills immediately. Minor Spills

- Avoid contact with skin and eyes.
- Wear impervious gloves and safety glasses.
- Use dry clean up procedures and avoid generating dust.

Environmental hazard - contain spillage. Moderate hazard.

**Major Spills** 

- ► CAUTION: Advise personnel in area.
- Alert Emergency Services and tell them location and nature of hazard.
- Control personal contact by wearing protective clothing.

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

#### **SECTION 7 Handling and storage**

#### Precautions for safe handling

Safe handling

- Avoid all personal contact, including inhalation.
- Wear protective clothing when risk of exposure occurs.
- Use in a well-ventilated area.
- Prevent concentration in hollows and sumps.

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

None known

#### 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
N-Acetyl Glyphosate-d3	Not Available	Not Available		Not Available
Ingredient	Original IDLH		Revised IDLH	
N-Acetyl Glyphosate-D3	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.

Individual protection measures, such as personal protective equipment













Eye and face protection

- Safety glasses with side shields.
- Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent]
- 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.

Version No: 2.2 Page 4 of 8 Issue Date: 17/07/2023 Print Date: 17/07/2023

## N-Acetyl Glyphosate-d3

Skin protection	See Hand protection below
Hands/feet protection	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.  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.  initrile rubber.  butyl rubber.
Body protection	See Other protection below
Other protection	<ul> <li>Overalls.</li> <li>P.V.C apron.</li> <li>Barrier cream.</li> <li>Skin cleansing cream.</li> </ul>

#### Respiratory protection

Type -P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, 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.
- · Try to avoid creating dust conditions.

# **SECTION 9 Physical and chemical properties**

#### Information on basic physical and chemical properties

Appearance	off-white solid		
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)	60-65	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available
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

Version No: 2.2 Page 5 of 8 Issue Date: 17/07/2023 Print Date: 17/07/2023

# N-Acetyl Glyphosate-d3

Solubility in water	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

#### **SECTION 10 Stability and reactivity**

Reactivity	See section 7
Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
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 toxicological effects

Inhaled	The material is not thought to produce adverse health effects or irritation models). Nevertheless, good hygiene practice requires that exposure be 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	If applied to the eyes, this material causes severe eye damage.		
Chronic	Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course.		
N-Acetyl Glyphosate-d3	TOXICITY	IRRITATION	

N. A. ested Obert a cost of 10	TOXICITY	IRRITATION	
N-Acetyl Glyphosate-d3	Not Available	Not Available	
Legend:	Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances		

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

Legend:

X - Data either not available or does not fill the criteria for classification

Data available to make classification

# **SECTION 12 Ecological information**

#### Toxicity

Oxicity					
	Endpoint	Test Duration (hr)	Species	Value	Source
N-Acetyl Glyphosate-d3	Not Available	Not Available	Not Available	Not Available	Not Available
Legend:	Ecotox databa	•	CHA Registered Substances - Ecotoxicological Infon C Aquatic Hazard Assessment Data 6. NITE (Japan)		

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters.

Wastes resulting from use of the product must be disposed of on site or at approved waste sites.

#### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air

Version No: 2.2 Page 6 of 8

# N-Acetyl Glyphosate-d3

Issue Date: **17/07/2023**Print Date: **17/07/2023** 

Ingredient	Persistence: Water/Soil	Persistence: Air	
	No Data available for all ingredients	No Data available for all ingredients	
	'	<u>'</u>	
Bioaccumulative potential			
Ingredient	Bioaccumulation		

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.

No Data available for all ingredients

▶ Recycle containers if possible, or dispose of in an authorised landfill.

#### **SECTION 14 Transport information**

#### Labels Required



Marine Pollutant



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# Land transport (ADG)

UN number or ID number	3077		
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.		
Transport hazard class(es)	Class 9 Subsidiary risk Not Applicable		
Packing group	III		
Environmental hazard	Environmentally hazardous		
Special precautions for user	Special provisions 274 331 335 375 AU01 Limited quantity 5 kg		

Environmentally 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;
- (b) IBCs; or
- (c) any other receptacle not exceeding 500 kg(L).
- Australian Special Provisions (SP AU01) ADG Code 7th Ed.

# Air transport (ICAO-IATA / DGR)

UN number	3077		
UN proper shipping name	Environmentally hazardous substance, solid, n.o.s.		
Transport hazard class(es)	ICAO/IATA Class	9 Not Applicable	
	ERG Code	9L	
Packing group	III		
Environmental hazard	Environmentally hazardous		
Special precautions for user	Special provisions  Cargo Only Packing In	tructions 956	8 A179 A197 A215
	Cargo Only Maximum	ty / Pack 400 kg	

Version No: 2.2 Page **7** of **8** Issue Date: 17/07/2023 Print Date: 17/07/2023

# N-Acetyl Glyphosate-d3

Passenger and Cargo Packing Instructions	956
Passenger and Cargo Maximum Qty / Pack	400 kg
Passenger and Cargo Limited Quantity Packing Instructions	Y956
Passenger and Cargo Limited Maximum Qty / Pack	30 kg G

# Sea transport (IMDG-Code / GGVSee)

UN number	3077		
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.		
Transport hazard class(es)	IMDG Class   9     IMDG Subrisk   Not Applicable		
Packing group	III		
Environmental hazard	Marine Pollutant		
Special precautions for user	EMS Number Special provisions Limited Quantities	F-A, S-F 274 335 966 967 969 5 kg	

# 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
N-Acetyl Glyphosate-D3	Not Available

#### Transport in bulk in accordance with the IGC Code

Product name	Ship Type
N-Acetyl Glyphosate-D3	Not Available

# **SECTION 15 Regulatory information**

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

N-Acetyl Glyphosate-D3 is found on the following regulatory lists

Not Applicable

# **National Inventory Status**

National Inventory	Status	
Australia - AIIC / Australia Non-Industrial Use	No (N-Acetyl Glyphosate-D3)	
Canada - DSL	No (N-Acetyl Glyphosate-D3)	
Canada - NDSL	No (N-Acetyl Glyphosate-D3)	
China - IECSC	No (N-Acetyl Glyphosate-D3)	
Europe - EINEC / ELINCS / NLP	No (N-Acetyl Glyphosate-D3)	
Japan - ENCS	No (N-Acetyl Glyphosate-D3)	
Korea - KECI	No (N-Acetyl Glyphosate-D3)	
New Zealand - NZIoC	No (N-Acetyl Glyphosate-D3)	
Philippines - PICCS	No (N-Acetyl Glyphosate-D3)	
USA - TSCA	No (N-Acetyl Glyphosate-D3)	
Taiwan - TCSI	No (N-Acetyl Glyphosate-D3)	
Mexico - INSQ	No (N-Acetyl Glyphosate-D3)	
Vietnam - NCI	No (N-Acetyl Glyphosate-D3)	
Russia - FBEPH	No (N-Acetyl Glyphosate-D3)	
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**

Revision Date	17/07/2023
Initial Date	09/12/2020

#### **SDS Version Summary**

Version	Date of Update	Sections Updated
1.2	17/07/2023	Hazards identification - Classification

Version No: 2.2 Page 8 of 8 Issue Date: 17/07/2023

## N-Acetyl Glyphosate-d3

Print Date: 17/07/2023

#### 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 Limit₀

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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