

# MATERIAL SAFETY DATA SHEET

Date of Issue: Jan 12, 2020



## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

<b>Product name</b>	NAADCO GLYPHOSATE 450 Herbicide
<b>Other names</b>	None
<b>Chemical group</b>	Glycine derivative
<b>Recommended use</b>	Herbicide for agricultural use
<b>Formulation</b>	Soluble Concentrate
<b>Supplier</b>	New Australia Agricultural Development Company Pty Ltd
<b>Address</b>	Rear 150-154 Parramatta Rd, Auburn, NSW, 2144 , Australia
<b>Telephone</b>	0425 328 311
<b>Fax</b>	(02) 91885752
<b>Website</b>	<a href="http://www.naadco.com.au">www.naadco.com.au</a>

## 2. HAZARDS IDENTIFICATION

<b>Hazard classification</b>	Based on available information, this material is not classified as hazardous according to criteria of National Occupational Health and Safety Commission-NOHSC
<b>Risk phrases</b>	R36: Irritating to eyes
<b>Safety phrases</b>	S20/21 When using do not eat or drink/smoke S24/25 Avoid contact with skin/eyes S29/35 Do not empty into drains/Dispose of material and container in a safe way

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS Number	Concentration (g/L)
Glyphosate isopropylamine salt	[38641-94-0]	450
Other ingredients	(non hazardous)	550

## 4. FIRST AID MEASURES

**If poisoning occurs, immediately contact a doctor or Poisons Information Centre (telephone 13 11 26), and follow the advice given. Show this Material Safety Data Sheet to the doctor.**

<b>Inhalation</b>	If inhaled remove to fresh air and keep at rest, contact a Poisons Information Centre or a doctor.
<b>Skin contact</b>	Carefully remove contaminated clothing. Wash affected areas with soap and water. Seek medical advice.
<b>Eye contact</b>	Quickly and gently blot or brush product away. Flush the contaminated eye(s) with lukewarm, gently flowing water until the product is removed or until irritation has ceased, while holding the eyelid(s) open. Obtain medical advice if irritation becomes painful or lasts more than a few minutes.
<b>Ingestion</b>	First aid is not generally required. If in doubt contact a Poisons Information Centre or a doctor.
<b>First Aid Facilities</b>	Ensure washing facilities are available.
<b>Medical attention</b>	There is no specific antidote available. Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

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**Specific hazards:** Non-combustible material.

**Extinguishing Media:** Water spray, foam, carbon dioxide, dry chemical.

**Fire Fighting:** When fighting fires involving significant quantities of this product, wear a splash suit complete with self contained breathing apparatus.

**Flash point:** Not flammable.

## 6. ACCIDENTAL RELEASE MEASURES

**Accidental release:** Avoid contact with the spilled material or contaminated surfaces. When dealing with spills, do not smoke, eat or drink and wear personal protective clothing and equipment as described in section 8. prevent spilled material from entering drains or watercourses. Contain spill and absorb with earth, sand, clay, or other absorbent material. Collect and store in properly labeled, sealed drums for safe disposal. Deal with all spillages immediately. If contamination of drains, streams, watercourses, etc. is unavoidable, warn the local water authority.

## 7. HANDLING AND STORAGE

**Handling:** Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this MSDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

**Storage:** Store in the closed, original container in a cool, well ventilated area. Do not store for prolonged periods in direct sunlight

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure standards:** No value assigned by the NOHSC.

**Biological limit:** the ingredients in this material do not have a Biological Limit Allocated.

**Engineering controls:** Control process conditions to avoid contact. Use in a well-ventilated area only.

**Personal protection equipment:** Eyes: Wear a face shield or goggles.

Clothing: When using controlled droplet application wear protective waterproof clothing and impervious footwear.

Gloves: Wear elbow-length PVC gloves.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Clear, blue liquid

**Odour:** Faint amine odour

**pH:** Not available

**Vapour pressure:**  $2.1 \times 10^{-3}$  mPa at 20°C

**Vapour density:** Not available

**Boiling point:** Not available

**Freezing/melting point:** Not available

**Solubility:** Soluble in water

**Specific Gravity:** 1.20

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<b>Flash Point:</b>	Does not flash
<b>Flammability</b>	
<b>(explosive) limits:</b>	Not explosive
<b>Auto-ignition</b>	
<b>temperature:</b>	Not available
<b>Partition coefficient</b>	
<b>(octanol/water):</b>	Glyphosate isopropylamine salt: Log P <sub>ow</sub> = -5.4 Glyphosate: Log P <sub>ow</sub> ≤ -3.2 at 20 °C

## 10. STABILITY AND REACTIVITY

<b>Chemical stability</b>	Stable under normal conditions of use.
<b>Conditions to avoid</b>	Do not store for prolonged periods in direct sunlight.
<b>Incompatible materials</b>	Avoid strong acids, oxidizing agents and strong reducing agents. Avoid iron alloys, unlined steel or galvanized containers when storing, mixing or applying the product or spray.
<b>Hazardous decomposition products</b>	In a fire, formation of hydrogen cyanide, and oxides of carbon, nitrogen and phosphorous can be expected.
<b>Hazardous reactions</b>	Do not store, mix or apply the product or spray solution in unlined steel or galvanized containers as highly flammable gas may form.

## 11. TOXICOLOGICAL INFORMATION

<b>Inhalation</b>	Product is expected to have low toxicity by the inhalation route. High vapour concentrations may be irritating to the respiratory tract.
<b>Skin contact</b>	Will irritate the skin.
<b>Eye contact</b>	Will irritate the eyes.
<b>Ingestion</b>	Symptoms include irritation of mucous membranes, hypersalivation, nausea, vomiting and diarrhea.

### ANIMAL TOXICITY DATA – *PRODUCT*

#### Acute:

<b>Oral toxicity</b>	LD <sub>50</sub> rat: 5000mg/kg
<b>Dermal toxicity</b>	LD <sub>50</sub> rabbit: > 5000 mg/kg
<b>Inhalation toxicity</b>	LC <sub>50</sub> (4h): > 1.3 mg/L
<b>Skin irritation</b>	No irritating (rabbit)
<b>Eye irritation</b>	No irritating (rabbit)

## 12. ECOLOGICAL INFORMATION

<b>Aquatic organisms:</b>	toxic to fish, crustaceans, amphibians.
<b>Flora:</b>	Toxic to most plants. Avoid spray drift onto non-target vegetation.
<b>Fauna:</b>	Generally safe at normal use rates.
<b>Soil organisms:</b>	Little effect. Is strongly absorbed by clay particles.
<b>Bees:</b>	Not toxic.

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**Long term:** None.

**Ozone effects:** None recorded.

**Persistence/degradation:** Half life of weeks rather than months (depends markedly on soil type, moisture, temperature).

**Mobility:** Very Little.

**Bioaccumulative potential:** Unknown but probably low.

## 13. DISPOSAL CONSIDERATIONS

**Product:** Whenever possible, product should be used for its intended purpose, even if reclaimed from spillage (reclaimed product must be uncontaminated).

**Containers:** Whenever possible, follow directions given on container. If not available, triple or pressure rinse plastic or metal containers before disposal. Recycle containers if possible (replace cap and return clean containers to recycler or designated collection point). Treat rinsings as for product above. If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

**Sewage:** Do not dispose of product or rinsings into sewage systems or septic tanks.

## 14. TRANSPORT INFORMATION

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail.

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

## 15. REGULATORY INFORMATION

Registered according to the Agricultural and Veterinary Chemicals Act, Australian Pesticides and Veterinary Medicines Authority approval number: **64547**

## 16. OTHER INFORMATION

The information contained in this MSDS is provided in good faith and is believed to be correct and the date hereof. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

Please read all labels carefully before using product.