

1. Identification of Substance & Company

Product

Product nameMcGregor's AmitroleProduct codeWAMIT200, WAMIT500

HSNO approval Approval descriptionHSR000423
400 g/litre amitrole

UN number 3082

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Amitrole 40%)

DG class 9
Packaging group III
Hazchem code 3Z
Uses Herbicide

Company Details

Company
Address
Amalgamated Hardware Merchants Ltd (AHM)
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Manukau, 2241

New Zealand New Zealand

Telephone +64 9 2511310 **Faxi** +64 9 2511311

Emergency Telephone Number: 0800 764 766

2. Hazard Identification

Approval

This product has been approved under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR000423, 400 g/litre amitrole), and is classified as follows:

Classes	Hazard Statements

6.4A H320 - Causes eye irritation.

6.8B H361 - Suspected of damaging fertility or the unborn child.

6.9A H372 - Causes damage to organs through prolonged or repeated exposure.

9.1B H411 - Toxic to aquatic life with long lasting effects.

9.2A H421 - Very toxic to the soil environment.

SYMBOLS

DANGER





Other Classifications

There are no other classifications that are known to apply.

Precautionary Statements

Precautionary

P103 - Read label before use.

P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P260 - Do not breathe dust/fume/gas/mist/vapours/spray.

P264 - Wash hands thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P273 - Avoid release to the environment.

P280 - Wear eye protection.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing.

P337+P313 - If eye irritation persists: Get medical advice/attention.



P308+P313 - IF exposed or concerned: Get medical advice/ attention.

P391 - Collect spillage. P405 - Store locked up

3. Composition / Information on Ingredients

Component	CAS/ Identification	Conc (%)
Amitrole	61-82-5	40%
ingredients not contributing to HSNO classes	mixture	balance

This is a commercial product whose exact ratio of components may vary. Trace quantities of impurities are also likely.

4. First Aid

General Information

If medical advice is needed, have product container or label at hand. You should call the National Poisons Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 0800 764 766 (0800 POISON) (24 hr emergency service).

Recommended first aid

facilities

Ready access to running water is required. Accessible eyewash is required.

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Exposure

Swallowed

Do NOT induce vomiting. Give a glass of water to drink. Contact a doctor.

Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists: Get medical

advice/attention.

Skin contact Inhaled This product is non-irritating to skin. No further measures should be required.

Generally, inhalation of fumes is unlikely to result in adverse health effects. If coughing, dizziness or shortness of breath is experienced, remove the patient to fresh air immediately. If patient is unconscious, place in the recovery position (on the side) for

transport and contact a doctor.

Advice to Doctor

Treat symptomatically

5. Firefighting Measures

Fire and explosion hazards: Suitable extinguishing

substances:

Unsuitable extinguishing

substances:

Products of combustion:

There are no specific risks for fire/explosion for this chemical. It is non-flammable. Carbon dioxide, extinguishing powder or water jet. Fight larger fires with water jet or

alcohol resistant foam. Unknown.

Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Water.

May form toxic mixtures in air and may accumulate in sumps, pits and other low-lying

spaces, forming potentially explosive mixtures.

Protective equipment: Self-contained breathing apparatus. Safety boots, non-flammable overalls, gloves, hat

and eye protection.

Hazchem code: 3

6. Accidental Release Measures

Containment If greater than 1000L is stored, secondary containment and emergency plans to manage

any potential spills must be in place. In all cases design storage to prevent discharge to

storm water.

Emergency procedures

In the event of spillage alert the fire brigade to location and give brief description of

hazard. Stop the source of the leak, if safe to do so. Shut off all possible sources of ignition. Wear protective equipment to prevent skin, eye and respiratory exposure. Clear area of any unprotected personnel. Contain using sand, earth or vermiculite. Do not use sawdust. Prevent by whatever means possible any spillage from entering drains, sewers,

or water courses. (If this occurs contact your regional council immediately).

clean-up of spills, as they may create fire or environmental hazard. Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or

waterways has occurred advise local emergency services.

Disposal Mop up and collect recoverable material into labelled containers for recycling or salvage.

Recycle containers wherever possible. This material may be suitable for approved

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Garden Genius

landfill. Dispose of only in accord with all regulations.

Precautions Floors may be slippery when wet. Wear protective equipment to prevent skin and eye

contamination and the inhalation of vapours. Work up wind or increase ventilation.

7. Storage & Handling

Storage Avoid storage of harmful substances with food. Store out of reach of children.

Containers should be kept closed in order to minimise contamination. Keep from extreme heat and open flames. Avoid contact with incompatible substances as listed in

Section 10.

Handling Keep exposure to a minimum, and minimise the quantities kept in work areas. See

section 8 with regard to personal protective equipment requirements. Avoid skin and eye

contact and inhalation of vapour, mist or aerosols.

8. Exposure Controls / Personal Protective Equipment

Workplace Exposure Standards

A workplace exposure standard (WES) has not been established by WorkSafe NZ for this product. There is a general limit of 3mg/m³ for respirable particulates and 10mg/m³ for inhalable particulates when limits have not otherwise been established.

NZ Workplace Exposure Stds (2016) Ingredient Amitrole WES-TWA* 0.2mg/m³ WES-STEL*

No data

* These workplace exposure standards are also Prescribed Exposure Standards (PES) under the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016.

Engineering Controls

In industrial situations, it is expected that employee exposure to hazardous substances will be controlled to a level as far below the WES as practicable by applying the hierarchy of control required by the Health and Safety at Work Act (2015) and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016.

Personal Protective Equipment

Eyes



Avoid contact with eyes. Use safety glasses and or chemical splash goggles if splashes are possible.

Skin Avoid repeated or prolonged skin contact. Wear overalls, rubber boots and impervious

gloves. Replace frequently. Gloves should be checked for tears or holes before use. Remove protective clothing and wash exposed areas with soap and water prior to eating,

drinking or smoking.

Respiratory A respirator when airborne concentrations approach the WES (section 8). Use a

respirator with an organic vapour cartridge with a particulate filter. If using a respirator, ensure that the cartridges are correct for the potential air contamination and are in good

working order.

WES Additional Information

Not applicable

9. Physical & Chemical Properties

Appearance Amber liquid Odour none pН 4.0-6.0 Vapour pressure no data **Viscosity** no data **Boiling point** no data Volatile materials no data Freezing / melting point no data

Solubility soluble in water Specific gravity / density 5.15g/ml (approx)

Flash point no data
Danger of explosion not explosive
Auto-ignition temperature no data
Upper & lower flammable limits
Corrosiveness no corrosive

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10. Stability & Reactivity

Stability Stable

Conditions to be avoided Containers should be kept closed in order to avoid contamination. Keep from extreme

heat and open flames.

Incompatible groups Strong acids and strong bases.

Substance Specific none known

Incompatibility

Hazardous decomposition

products

Oxides of carbon

Hazardous reactions none known

11. Toxicological Information

Summary

IF SWALLOWED: may cause burning sensation in throat and chest, nausea, vomiting, diarrhoea and nosebleeds.

IF IN EYES: may cause eye irritation.

IF ON SKIN: may cause mild skin irritation. Sensitised individuals may experience an allergic skin reaction.

IF INHALED: vapours may cause irrititation.

CHRONIC TOXICITY: in animal experiments, extended animal feeding studies showed that rats fed amittrol had fewer pups per litter and the pup weight was reduced. At high doses the thyroid and spleen was affect and increases pup mortality occurred. Amitrole was found to affect the liver, kidney and the thyroid.

Supporting Data

Acute Oral Using LD₅₀'s for ingredients, the calculated LD₅₀ (oral, rat) for the mixture is >5,000

mg/kg.

Dermal No evidence of dermal toxicity. **Inhaled** No evidence of inhalation toxicity.

Eye The mixture is considered to be an eye irritant, because amitrole is considered an eye

irritant.

Skin The mixture is not considered to be a skin irritant.

Chronic Sensitisation No ingredient present at concentrations > 0.1% is considered a sensitizer.

MutagenicityNo ingredient present at concentrations > 0.1% is considered a mutagen. **Carcinogenicity**No ingredient present at concentrations > 0.1% is considered a carcinogen.

Reproductive The mixture is considered to be a suspected reproductive or developmental toxicant. **Developmental** Amitrole is classed 6.8B by EPA, it is considered a suspected reproductive and

developmental toxicant.

Systemic The mixture is considered to be a known or presumed target organ toxicant. Amitrole

may affect the liver, kidney or thryoid

Aggravation of existing conditions

None known.

12. Ecological Data

Summary

This mixture is toxic towards aquatic organisms and in the soil environment.

Supporting Data

Aquatic Using EC₅₀'s for ingredients, the calculated EC₅₀ for the mixture is between 1 mg/L and

10 mg/L Data considered includes: Amitrole 1.54mg/L (48hr, Daphnia magna), 2.3mg/L

(96h, Scenedesmus subspicatus (Algae)), 65mg/L (96h, rainbow trout).

Bioaccumulation No data **Degradability** No data

Soil EPA has classified the mixture as highly ecotoxic to the soil environment. This substance

is very toxic to plants (non selective herbicide)

Terrestrial vertebrateThis mixture is not considered ecotoxic towards terrestrial vertebrates.

Terrestrial invertebrate No evidence of toxicity towards terrestrial invertebrates.

Biocidal no data

Environmental effect levels No EELs are available for this mixture or ingredients



Disposal Considerations

Restrictions There are no product-specific restrictions, however, local council and resource consent

conditions may apply, including requirements of trade waste consents.

Disposal method Disposal of this product must comply with the requirements of the Resource Management

> Act for which approval should be sought from the Regional Authority. The substance must be treated and therefore rendered non-hazardous before discharge to the

environment.

Contaminated packaging Rinse containers with water before disposal. Preferably re-cycle container, otherwise

send to landfill or similar.

Transport Information

Transport according to NZS 5433 (Transport of Hazardous Substances on Land). Considered a dangerous good for transport.

UN number: 3082 Proper shipping name: **ENVIRONMENTALLY HAZARDOUS**

SUBSTANCE, LIQUID, N.O.S. (Amitrole 40%) Class(es) Ш Packing group:

Precautions: Marine pollutant. Hazchem code: 3Z

Regulatory Information

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO). Approval code: HSR000423, 400 g/litre amitrole (Substance A).

Specific Workplace Controls (as per HSNO approval referenced to Controls Matrix)

Key workplace requirements are:

SDS To be available within 10 minutes in workplaces storing > 0.1L.

No removal of labels and/or decanting of product into other containers can occur. Labelling

Emergency plan Required if > 1000L is stored.

Approved handler Required if applied in a wide dispersive manner or by a commercial contractor.

Tracking Not required.

Required if > 1000L is stored. Bunding & secondary containment Signage Required if > 100L is stored.

Location test certificate Not required Flammable zone Not required Fire extinguisher Not required

Note: The above workplace requirements apply if only this particular substance is present. The complete set of controls for a location will depend on the classification and total quantities of other substances present in that location.

Other Legislation

In New Zealand, the use of this product may come under the Resource Management Act and Regulations, the Health and Safety at Work Act 2015 and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016, local Council Rules and Regional Council Plans.

All aspects of storage, handling use, disposal and record keeping must be in accordance with NZS 8409:2004 Management of Agrichemicals.



Other Information

Abbreviations

Approval HSR000423, 400 g/litre amitrole (Substance A) Controls, EPA. **Approval Code**

www.epa.govt.nz

CAS Number Unique Chemical Abstracts Service Registry Number

Ceiling Exposure Value: The maximum airborne concentration of a biological or chemical Ceiling

agent to which a worker may be exposed at any time.

EC₅₀ Ecotoxic Concentration 50% - concentration in water which is fatal to 50% of a test

population (e.g. daphnia, fish species)

FΡΔ Environmental Protection Authority (New Zealand)

HAZCHEM Code Emergency action code of numbers and letters that provide information to emergency

services, especially fire fighters

HSNO Hazardous Substances and New Organisms (Act and Regulations)

International Agency for Research on Cancer IARC LEL/UEL Lower Explosive Limit/Upper Explosive limit.

Lethal Dose 50% – dose which is fatal to 50% of a test population (usually rats). LD_{50}

LC₅₀ Lethal Concentration 50% - concentration in air which is fatal to 50% of a test population

(usually rats)

MSDS (SDS) Material Safety Data Sheet (or Safety Data Sheet)

Prescribed Exposure Standard means a WES or a biological exposure standard that is **PES**

prescribed in a regulation, a safe work instrument or an approval under HSNO (including

group standards).

STEL Short Term Exposure Limit - The maximum airborne concentration of a chemical or

biological agent to which a worker may be exposed in any 15 minute period, provided the

TWA is not exceeded

TWA Time Weighted Average – generally referred to WES averaged over typical work day

(usually 8 hours)

UN Number United Nations Number

WES Workplace Exposure Standard - The airborne concentration of a biological or chemical

agent to which a worker may be exposed during work hours (usually 8 hours, 5 days a week). The WES relates to exposure that has been measured by personal monitoring

using procedures that gather air samples in the worker's breathing zone.

References

Unless otherwise stated comes from the EPA HSNO chemical classification information Data

database (CCID).

EPA Transfer Gazettes

Classifications and controls assigned for specific ingredients (consolidated gazette, 2004)

WES 2016 The NZ Workplace Exposure Standards Effective from 2016, published by WorkSafe NZ

and available on their web site - www.worksafe.govt.nz.

WES 2002 Workplace Exposure Standards published by the Occupational Safety and Health

Service, Department of Labour, January 2002, ISBN 0-477-03660-0. These are the WES

referred to under the Group Standard (HSNO approval) and may constitute a PES.

Other References: Suppliers SDS

Review

Reason for review Date June 2017 Not applicable - new SDS

Disclaimer

This SDS was prepared by Datachem LTD and is based on our current state of knowledge, including information obtained from suppliers. The SDS is given in good faith and constitutes a guideline (not a guarantee of safety). The level of risk each substance poses is relevant to its properties (as summarised in the SDS) AND HOW THE SUBSTANCE IS USED. While guidelines are given for personal protective equipment, such precautions must be relevant to the use. The likely HSNO classifications for this SDS have been estimated based on general information from the supplier (e.g., hazard, toxicological). This SDS is copyright Datachem and must not be copied, edited or used for other than intended purpose. To contact the SDS author, email info@datachem.co.nz or phone: +64 9 940 30 80.

