

## MATERIAL SAFETY DATA SHEET

### MACSPRED® HALOMAC™ 520 HERBICIDE

#### SECTION 1 - IDENTIFICATION

**PRODUCT NAME:** Macspred Halomac 520 Herbicide  
**OTHER NAMES:** None  
**RECOMMENDED USE:** Grassweed Herbicide.  
**COMPANY:** Macspred Pty Ltd - ABN 85 011 029 495  
**ADDRESS:** 13 Kennedys Drive, Delacombe VIC 3356  
**TELEPHONE NUMBER:** (03) 5335 8522  
**EMERGENCY NUMBERS:** First Aid: 13 11 26 (Poisons Information Centre)  
Transport Emergency: 000 (Police of Fire)

#### SECTION 2 – HAZARDS IDENTIFICATION

**HAZARDS CLASSIFICATION:** Classified as hazardous according to the criteria of the National Occupational Health & Safety Commission (NOHSC)

**RISK PHRASES:** R22 Harmful if swallowed  
R50/53 Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment

**SAFETY PHRASES:** S2 Keep out of reach of children.  
S13 Keep away from food, drink and animal feeding stuffs.  
S23 Do not breathe spray mist.  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S28 After contact with skin, wash immediately with plenty of soap and water.  
S24/25 Avoid contact with skin and eyes.  
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.  
S29 Do not empty into drains.  
S29/35 Do not empty into drains; dispose of this material and its container in a safe way.  
S61 Avoid release to the environment. Refer to special instructions below in sections 6,7 and 13.

**ADG:** This product is not classified a Dangerous Good under the Australian Code for Transport of Dangerous Goods by Road and Rail.

**POISON SCHEDULE:** Poisons Schedule 6 (S6)  
**CLASSIFICATION:** (Standard for Uniform Scheduling for Drugs and Poisons).

#### SECTION 3 – COMPOSITION

**INGREDIENTS:**

CHEMICAL ENTITY	CAS NUMBER	PROPORTION
Haloxypop R-methyl ester	72619-32-0	46.9%
Diethylene glycol monoethyl ether	111-90-0	30-60%
Balance ingredients not contributing to hazard		<10%

## SECTION 4 – FIRST AID MEASURES

Consult the Poisons Information Centre (Australia 131126) or a doctor in every case of chemical poisoning. Never give fluids or induce vomiting if a patient is unconscious or convulsing, regardless of cause of injury. If breathing difficulties occur seek medical attention immediately.

Swallowed:	Do not induce vomiting. Call a doctor. The decision of whether to induce vomiting or not should be made by a doctor.
Skin:	Rinse contaminated skin with soap and water after removing contaminated clothing. Seek medical advice if irritation develops.
Eyes:	Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes and then continue rinsing eyes. Call the Poisons Information Centre or doctor for advice.
Inhaled:	Remove to fresh air. Consult a doctor.

### ADVICE TO DOCTOR:

Supportive care. Treatment based on judgement of doctor in response to symptoms of patient.

## SECTION 5 – FIRE FIGHTING MEASURES

### FIRE/EXPLOSION HAZARDS

May produce noxious fumes that may contain toxic or irritating substances including hydrogen chloride and hydrogen fluoride.

### FIRE DECOMPOSITION OR COMBUSTION PRODUCTS

May produce noxious fumes that may contain toxic or irritating substances including hydrogen chloride and hydrogen fluoride.

### HAZARDOUS DECOMPOSITION PRODUCTS

May produce noxious fumes that may contain toxic or irritating substances including hydrogen chloride and hydrogen fluoride.

### EXTINGUISHING MEDIA

Carbon dioxide, dry chemical, water fog.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

### SPILLS AND DISPOSAL

**ACTION TO TAKE FOR SPILLS/LEAKS:** DO NOT touch or walk through spilled material. Wear a face shield or goggles, overalls buttoned to neck and wrist, chemical resistant gloves and boots. Stop leak when safe to do so. Dike area and prevent entry into waterways and drains.

**Small spills/leaks:** Absorb with material such as sand, soil or sawdust. Collect spilled product and place in sealable container for disposal. Spill residues may be cleaned using water and detergent. Contain and absorb wash water for disposal. Absorb and collect washings and place in the same sealable container for disposal. Dike the area of large spills and report them to the relevant authorities. Do not use water to clean up.

### DISPOSAL

See section 13.

## SECTION 7 - HANDLING AND STORAGE

### STORAGE

Store in tightly closed original container in a cool, dry well ventilated area out of direct sunlight when not in use. Do not store with food, feedstuffs, fertilizers and seeds. See product label for further handling/storage precautions relative to the end use of this product. Reduce stacking height where local conditions can affect packaging strength.

### HANDLING

Keep out of reach of children. May be harmful if swallowed, inhaled, or absorbed through skin. Causes eye irritation. Avoid contact with eyes, skin and clothing. Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

## SECTION 8 – EXPOSURE CONTROLS

These precautions are suggested for conditions where the potential for exposure exists. Emergency conditions may require additional precautions.

### EXPOSURE STANDARDS

None established.

### ENGINEERING CONTROL

Provide general and /or local exhaust ventilation to control airborne levels below the exposure guidelines.

### PERSONAL PROTECTIVE MEASURES FOR MANUFACTURING, COMMERCIAL BLENDING AND PACKAGING WORKERS:

#### Eye Protection;

Use safety glasses. Where contact with the liquid is likely, chemical goggles are recommended.

#### Skin Protection;

For brief contact, no precautions other than body-covering clothing and chemical resistant gloves should be needed. When prolonged or frequently repeated contact could occur, use protective clothing impervious to this material. For emergency conditions: Use protective clothing impervious to this material. Selection of specific items will depend on operation.

#### Protective Material Types;

We suggest that protective clothing be made from the following materials: rubber, PVC.

#### Respiratory Protection;

For most conditions, no respiratory protection should be needed. However, when comfort levels may be exceeded use an approved air-purifying respirator.

For emergency conditions, use an approved positive pressure self contained breathing apparatus.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

<b>FORM:</b>	Emulsifiable Concentrate
<b>COLOUR:</b>	Brown
<b>ODOUR:</b>	Solvent
<b>BOILING POINT:(°C):</b>	202°C
<b>VAPOUR PRESSURE:</b>	14 mmHg @ 20°C (solvent)
<b>FLASHPOINT:</b>	92°C
<b>SOLUBILITY IN WATER:(G/L):</b>	Emulsifiable.
<b>COMBUSTIBLE:</b>	Combustible liquid C1
<b>FLAMMABLE UNITS:</b>	LFL: 8.5% (solvent) UFL: 1.2 % (solvent)
<b>DENSITY:</b>	1.15 g/mL at 20°C

## SECTION 10 – STABILITY AND REACTIVITY

### STABILITY:

Stable under normal conditions

### INCOMPATIBILITY:

(Specific materials to avoid) Strong oxidisers.

### HAZARDOUS DECOMPOSITION PRODUCTS:

Oxides of carbon and nitrogen. Hydrogen chloride and hydrogen fluoride may be evolved in extreme situations.

### HAZARDOUS POLYMERIZATION:

Not known to occur.

## SECTION 11 – TOXICOLOGY INFORMATION

### POTENTIAL HEALTH EFFECTS

This section includes possible adverse effects, which could occur if this material is not handled in the recommended manner.

#### ACUTE:

Swallowed:	The product is classified as slightly hazardous based on an oral LD <sub>50</sub> > 300 mg/kg for the active constituent.
Eye:	May irritate eyes.
Skin:	Not a dermal sensitizer. Not a dermal irritant.
Inhaled:	No information available. Not expected to be hazardous.

**CHRONIC:**

Systemic (Other Target Organ Effects):	No effects have been reported.
Cancer Information:	No reports found to indicate product is carcinogenic to humans.
Teratology (Birth Defects):	Teratogenic effects have not been reported.
Reproductive:Effects:	Reproductive effects have not been reported.
Mutagenicity:	No reports found to indicate product is mutagenic.

**SECTION 12 – ECOLOGICAL INFORMATION**

**ECOTOXICITY DATA**

**Effects on aquatic organisms:** Low to moderately toxic to fish depending on species (96 hr LC50 for rainbow trout = 0.7 mg/L).

**ENVIRONMENTAL DATA**

**Movement & Partitioning:** Based on estimates for the active constituent, expected to be moderately concentrating in aquatic organisms (calculated BCF = 262).

**Degradation& Persistence:** Degraded in soil to parent acid within 24 hours which is then microbially degraded. In water, experimental results indicate DT50 at pH 7 = 48 days.

**SECTION 13 – DISPOSAL CONSIDERATIONS**

**DISPOSAL METHOD:**

If wastes and / or containers cannot be disposed of according to the product label directions, disposal of this material must be in accordance with your local or area regulations. This information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. If the material as supplied becomes a waste, follow all applicable regional, national and local laws and regulations.

**SECTION 14 – TRANSPORT INFORMATION**

<b>ADG: ROAD AND RAIL TRANSPORT:</b>	Not classified as dangerous goods for transport by road and rail by the criteria of the Australian Dangerous Goods Code (ADG 6).
<b>MARINE AND AIR:</b>	Classified as Dangerous Goods for transport by sea and air according to the criteria of the UN Model Regulations for Transport of Dangerous goods 13 <sup>th</sup> Edition.
<b>CLASS:</b>	9
<b>PACKING GROUP:</b>	III
<b>SHIPPING NAME:</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (HALOXYFOP R METHYL)

**SECTION 15 – REGULATORY INFORMATION**

<b>HAZARDS CLASSIFICATION:</b>	Classified as hazardous according to the criteria of the National Occupational Health & Safety Commission (NOHSC)
<b>POISON SCHEDULE:</b>	S6
<b>APVMA APPROVAL NUMBER:</b>	63468

## SECTION 16 – OTHER INFORMATION

Revised May 2009

Literary references:

- 1) Standard for the Uniform Scheduling of Drugs and Poisons – Commonwealth Department of Health and Aging
- 2) Australian Inventory of Chemical Substances (AICS)

**ACRONYMS:**

ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail
AICS	Australian Inventory of Chemical Substances
CAS number	Chemical Abstracts Service Registry Number
NOHSC	National Occupational Health and Safety Commission
NOS	Not otherwise specified
SUSDP	Standard for the Uniform Scheduling of Drugs & Poisons
UN Number	United Nations Number

THIS MSDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS MSDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE. IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS. OUR RESPONSIBILITY FOR PRODUCT SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMER AND IS ALSO AVAILABLE ON REQUEST.

Please read all labels carefully before using product.