

Material Safety Data Sheet

A09524/01

Product Name ECLIPSE HERBICIDE**Statement of Hazardous Nature**

Not classified as hazardous according to criteria of the National Occupational Health and Safety Commission

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 875 Pacific Highway (24 Hrs Toll Free)
 PYMBLE NSW 2073 Phone (02) 9391-6000

Identification**Product Name** ECLIPSE HERBICIDE

Issued	8/1/2001	Supersedes			
UN No	None	Hazardous?	No	Hazchem	None
DG Class	None	Poison Schedule	S6	Prod. Code	*****
Sub Risk	None	Packing Group	None	EPG No	

Uses Agricultural herbicide for the control of weeds as specified on the product label.

Product Descriptor: ECLIPSE

Proper Shipping Name: none

Chemical Characterisation: 714 g/L metosulam

Physical Description/Properties

Form: Granulated solid

Colour: pale brown

Change in Physical State:

boiling point (degrees C): no specific data. Expect to decompose before boiling

Bulk density: 0.7 g per cubic cm

Vapour Pressure (at 20 degrees C): 4×10^{-10} mPa (active ingredient)

Solubility in Water: dispersible. Active ingredient solubility 0.2 g/L at 20 degrees C.

Flash Point: not flammable

Volatile materials: No specific data. Expected to be low at 100 degrees C.

Ingredients

Chemical	CAS No.	Proportion
Metosulam	139528-85-1	714 g/L
Other non hazardous ingredients		286 g/L

Material Safety Data Sheet

A09524/01

Product Name ECLIPSE HERBICIDE

Health Hazards

Health Effects

Chronic: Possible chronic health effects from exposure to Eclipse are based on studies using the active ingredient. Metosulam does not cause birth defects nor does it affect reproduction in rats or rabbits. It does not cause genetic change and does not accumulate in the body. Prolonged oral administration of high doses of metosulam to rats and dogs causes kidney toxicity. In rats, lifetime exposure to doses many thousands of times higher than likely human exposure levels (i.e. 100 mg/kg body weight/day) caused an increase in kidney tumours. No increase in tumours was seen in rats treated at lower doses. Metosulam did not cause tumours in mice and dogs fed similar low or high doses. Prolonged administration of high doses to dogs caused damage to the retina of the eye. This effect was not seen in mice, rabbits, rats or monkeys, and is not believed to be relevant to humans. The ingredients are not listed as carcinogenic in NOHSC's document "Exposure Standards for Atmospheric Contaminants in the Occupational Environment" (May 1995).

Swallowed

Acute:

The acute oral toxicity is low. The oral LD50 (rat and mouse) is above 5000 mg/kg.

Skin

The acute dermal toxicity is low. The acute dermal LD50 (rabbit) is above 2000 mg/kg.

Eye

Dust particles in the eye may cause slight temporary eye irritation, not different to that caused by any physical irritation of the eye. In the rabbit eye, metosulam was classified as a slight irritant.

Inhaled

Under normal application conditions, exposure to the spray mix is very low and any spray mist inhaled is unlikely to cause health effects.

First Aid

Consult the National Poisons Information Centre - phone 13 11 26 or a doctor in every case of suspected 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

If swallowed contact the Poisons Information Centre or a doctor immediately.

Skin

If on skin, remove contaminated clothing and wash skin thoroughly with soap and water.

Eye

If in eyes, hold eyes open and flood with water for at least 15 minutes and see a doctor.

Material Safety Data Sheet

A09524/01

Product Name ECLIPSE HERBICIDE

Health Hazards

(Continued)

Inhaled

If affected by dust, remove from contaminated area to fresh air.

Precautions for Use

Exposure Standards

A time weighted average (TWA) concentration for an 8 hour day, and 5 day week has not been established by NOHSC Australia for any of the major ingredients in this product. There is a blanket limit of 10 mg/cubic metre for dusts or mists when limits have not otherwise been established. The nature of this product makes it unlikely that this level will be approached in normal use. The ADI (Acceptable Daily Intake) for metosulam is set at 0.05 mg/kg/day. The corresponding NOEL (No-observable-effect-level) is set at 5 mg/kg/day. Values taken from Australian ADI List, May 1995.

Engineering Controls

In industrial situations, concentration values below the TWA value should be maintained. Values may be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapours are high, you are advised to modify the process or environment to reduce the problem.

Personal Protection

Poisonous if swallowed. Will irritate the eyes. Avoid contact with eyes. If product in eyes wash it out immediately with water. When opening the container, preparing the spray or using the prepared spray, wear elbow-length PVC gloves and a face shield or goggles. After use and before eating, drinking, or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves and face shield or goggles and contaminated clothing.

Flammability

Protection Against Fire and Explosion:
Product is stable. Avoid strong oxidising agents. Keep away from sources of ignition. Not flammable under normal conditions of use.

Safe Handling Information

Storage

This product is an S6 Poison. Observe all relevant regulations regarding sale, transport and storage of this class of product. Store in the closed original container in a cool, dry, well-ventilated area, out of direct sunlight. Do not store near food, feedstuffs, fertilisers or seed.

Material Safety Data Sheet

A09524/01

Product Name ECLIPSE HERBICIDE

Safe Handling Information

(Continued)

Transport

Classification according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code).

Shipping name: None

Packing group: None

UN No: None

DG Class: None

Sub Risk: None

Hazchem: None

Dangerous Goods / Hazardous Substances Regulation

This product is subject to the following regulations:

Standard for the Uniform Scheduling of Drugs and Poisons

Spills

Prevent spill from spreading or entering waterways or drains. Take up with absorbent material such as peat, sawdust or chemical binding agent. Fill material along with any contaminated soil etc. into sealable containers. Clean affected area with an aqueous detergent and a small amount of water. Absorb this with hydrated lime over the affected area. On completion of clean-up remove and wash all protective clothing and equipment with detergent and water. Any heavily contaminated clothing should be placed in a plastic garbage bag and placed in a sealable drum. Do not smoke, eat or drink during the clean-up operation.

Disposal

1) After intended use:

Triple or (preferably) pressure rinse container before disposal. Add rinsings to the spray tank. Do not dispose of undiluted chemicals on site. Break, puncture, crush and bury rinsed container in a local authority landfill (check local statutory requirements). If not available, bury the container below 500 mm in a marked disposal pit specifically set up for this purpose, clear of waterways, vegetation and roots. Empty container and product should not be burnt.

2) After spill or accident:

Dispose of sealed containers at an approved local waste disposal site.

Fire/Explosion Hazard

Flashpoint: Not flammable

Flammability limits: Not applicable

Extinguishing Media: Dry chemical, foam, water fog.

Stability: This product is unlikely to spontaneously decompose.

Polymerisation: This product is unlikely to spontaneously polymerise.

Materials to avoid: Strong oxidising agents

Further Information:

Special firefighting procedures: When fighting fires involving significant quantities of this product, wear safety boots, non-flammable overalls, gloves, hat, goggles and self contained breathing apparatus. All skin areas should be covered.

Material Safety Data Sheet

A09524/01

Product Name ECLIPSE HERBICIDE

Other Information

Information on Toxicity

Ecotoxicity Data

Metosulam does not demonstrate any significant toxicity to fish, aquatic organisms, birds, earthworms and honey bees. Metosulam is highly toxic to blue green algae. Metosulam does not bioaccumulate in animal systems.

Environmental Fate

Metosulam does not hydrolyse or photodegrade under normal conditions.

In soil, metosulam is quickly degraded by microbial action. The soil half-life ranges between six and forty seven days, depending on the soil type, organic matter content, microbial activity and climatic conditions. The half-life is lowest when microbial activity is greatest.

Metosulam has limited potential for runoff, or leaching through soil profiles, but may move in very sandy soils. Residues are generally confined to the top ten centimetres of a soil profile. In water, metosulam degrades slowly with an average aerobic half-life of eighty four days and an anaerobic half-life of ninety days.

If used according to the label directions, Eclipse Herbicide will not be harmful to the environment.

Contact Point (for non-emergency calls)

Product safety coordinator of Business Group: Crop Protection

Telephone Number: (02) 9391-6000

DISCLAIMER

This Material Safety Data Sheet has been developed according to the WORKSAFE/NOHSC Code of Practice.

The data, information and recommendations herein ("information") are represented in good faith and believed to be correct as of the date hereof.

The purpose of this Material Safety Data Sheet is to describe product in terms of their safety requirements.

Bayer Australia Limited makes no representation of merchantability, fitness for a particular purpose or application, or of any other nature with respect to the information or the product to which the information refers ("the product").

The information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purpose prior to the use of the product.

The physical data shown herein are typical values based on the material tested. These values should not be construed as a guaranteed analysis of any specific lot or as guaranteed specification for the product or specific lots thereof.

Due care should be taken to make sure that the use or disposal of this product and/or its packaging is in compliance with relevant Federal, State and Local Government regulations.