



GROW CHOICE PTY LTD
ABN 62 069 839 961
113 Fitzroy Street
Tamworth NSW 2340

MATERIAL SAFETY DATA SHEET

Product Name: Ryedown Herbicide

Statement of Hazardous Nature:

Classified as hazardous according to the criteria of the National Occupational Health & Safety Commission (NOHSC) – S6

I IDENTIFICATION

Product Name: **Ryedown Herbicide**

Chemical Name: Diclofop Methyl, Solvesso 200, Proprietary Surfactant (aromatic sulphonates and ethylene oxide condensate tlype)

Use: For post emergent control of Annual Ryegrass, Common Barbgrass and Wild Oats in Wheat, Barley, Linseed, Peas and other crops.

Physical Appearance & Properties:

<u>Appearance and Odour:</u>	Light to dark brown liquid with aromatic odour
<u>Boiling Point °C:</u>	>226
<u>Melting Point:</u>	<0°C
<u>Vapour Pressure:</u>	0.17kPa @ 38°C (for solvent), 0.034mPa @ 20°C fo AI
<u>Volatile Component</u>	40 – 50%
<u>Specific Gravity:</u>	1.090 – 1.098
<u>Flashpoint:</u>	92°C
<u>Flammability Limits:</u>	Lower 0.6%, higher 7%
<u>Autoignition Temp:</u>	Not known, >226°C
<u>Rel. Vapour Density:</u>	>1 (for solvent)
<u>Form:</u>	Liquid
<u>Other Properties:</u>	Forms an emulsion in water

INGREDIENTS:

Component	CAS No	Proportion (w/v)
Diclofop Methyl	51338-27-3	375G/l
Solvesso 200		40-50%
Proprietary Surfactant (aromatic sulphonates And ethylene oxide condensate type)		10-20%

TOXICITY DATA:

For the product: Toxic to mammals
Acute oral LD50 (rat): 2000 mg/Kg
Acute dermal LD50 (rat): 5000mg/Kg
Acute inhalation LC50 (rate, 1 hour): 14 – 20mg/L

Diclofop methyl: Toxicity to mammals:

Acute oral LD50 (rats): 557-580mg/Kg
Acute dermal LD50 (female rats): >2000mg/Kg
Toxicity to birds:
Eight day dietary LD50 (quail and duck): >20,000mg/Kg
Toxicity to fish:
Toxic to fish
LC50 (Orfe) 2.19mg/L (24 hours)
LC50 (Orfe) 2.07mg/L (48 hours)
1.81mg/L (96 hours)

The Australian Acceptable Daily Intake (ADI) of diclofop-methyl for a human is 0.002mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 0.25mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. (Ref: Comm. Dept. of Human Services and Health, "ADI List", AGPS< May 1994)

II HEALTH HAZARD DATA

HEALTH EFFECTS:

ACUTE EFFECTS

Swallowed:

The concentrate is of relatively low toxicity. The product has been assessed using the Worksafe Criteria and has been found to be non-hazardous.

Eye:

Prolonged contact of the eye with the concentrate may cause irritation..

Skin:

The concentrate may irritate the skin. Prolonged or repeated exposure to the solvent present may cause defatting of the skin which could lead to secondary dermatitis.

Inhaled:

Avoid inhaling spray mist.

Chronic Effects:

None known.

FIRST AID:

Swallowed:

If swallowed and if more than 15 minutes from a hospital, induce vomiting, preferably using Ipecac Syrup (APF). Do not apply mouth to mouth resuscitation if material ingested.

Eye:

Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open..

Skin:

Remove contaminated clothing and launder before re-use. Wash affected areas thoroughly with soap and water.

Inhaled:

Remove patient to fresh air until recovered. Give artificial resuscitation if breathing has stopped.

Advice to Doctor:

No antidote is available and treatment should be symptomatic. Gastric lavage with medicinal charcoal in water is recommended induce diuresis and monitor electrolyte and fluid balance. Observe kidney function. Once vomiting has occurred treatment may be required to prevent the solvent present causing pulmonary pneumonitis.

III PRECAUTIONS FOR USE:

Exposure Limits:

No exposure standards have been set for this product. The manufacturer of the solvent has recommended a TLV of 100ppm for the solvent.

Engineering Controls:

Natural only although a local exhaust should be provided if material is handled in confined spaces to minimise exposure to solvent vapours.

Personal Protection:

May irritate the eyes and skin. Avoid contact with eyes and skin. DO NOT inhale spray mist. When preparing spray and using the prepared spray, wear cotton overalls buttoned to the neck and wrist and washable hat, elbow-length PVC gloves and face shield. 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, face shield and contaminated clothing.

Flammability:

Combustible

Environment:

DO NOT contaminate streams, rivers or waterways with the chemical or used containers. Dispose of used containers in a responsible manner.

IV SAFE HANDLING INFORMATION:

Storage and Transport:

Do not use or store near heat or naked flames. Store in closed, original container in a well-ventilated area away from children, animals, food, feedstuffs, seed and fertilizers.

Transport: Considered non hazardous for transport by the Australian Code for the Transport of Dangerous Goods by Road and Rail.

Packaging and Labelling

POISON S6

Not to be taken

Keep out of reach of children

Read safety directions before opening

The product has been assessed according to the Worksafe criteria for classifying hazardous substances and is classified as not hazardous.

Spills and Disposal

Contain spill and absorb with sand or proprietary absorbent (vermiculite). Prevent from entering drains, waterways or sewers. Collect in sealed open-top containers for disposal. Triple rinse containers, add rinsings to the spray tank, then offer container for recycling/reconditioning, or puncture top, sides and bottom and dispose of in landfill in accordance with local regulations. On-site disposal of concentrate is not acceptable.

Fire/Explosion Hazard

May emit toxic fumes if involved in fires or exposed to extreme heat. SCBA should be worn by fire fighters. All other personnel should be moved to the windward side of any fire.

Extinguishing Media: Foam, carbon dioxide

Control fire water, the product is a herbicide.

Reactivity Data:

Keep away from strong oxidising agents. Will not polymerise.

V OTHER INFORMATION:

Disclaimer:

The information provided in these MSDS's is based upon sources believed to be accurate. However, the Company assumes no responsibility for the accuracy, completeness or suitability of this information. The product user is responsible to determine the suitability of this information for their particular purposes.

IN CASE OF EMERGENCY DIAL 000

IF INEFFECTIVE: PHONE POISONS INFORMATION CENTRE

SPECIALIST COMPANY ADVICE:

Grow Choice Pty Ltd
113 Fitzroy Street,
TAMWORTH NSW 2340

Phone: 02 6766 3979

Fax: 02 6766 2922

DISCLAIMER:

Grow Choice Pty Ltd
Ph: 02 6766 3979

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 data hereof.

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

Grow Choice Pty Ltd makes no representation of merchantability, fitness for a particular purpose of 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.