



SAFETY DATA SHEET

According to Safe Work Australia

Printing date 28.02.2023

Revision: 28.02.2023

Product Name: 4FARMERS MESOSULFURON 30 OD

1 . IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

Product Name: 4FARMERS MESOSULFURON 30 OD**Other Means of Identification:** Mixture**Recommended Use of the Chemical and Restriction on Use:** Agricultural herbicide**Details of Manufacturer or Importer:**4Farmers Australia Pty Ltd
70 McDowell Street
Welshpool WA 6106**Phone Number:** +61 8 9356 3446**Emergency telephone number:** National Poison Information Centre: 13 11 26

2 . HAZARDS IDENTIFICATION

Hazardous Nature:

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

Skin irritation: Category 2, Causes skin irritation.
Serious eye damage: Category 1 Causes serious eye damage
Skin sensitisation: Category 1A May cause an allergic skin reaction.
Germ cell mutagenicity: Category 1 May cause genetic defects
Carcinogenicity: Category 1 May cause cancer.
Aspiration hazard: Category 1



health hazard



environment

Signal Word Danger**Hazard Statements**

H315 Causes skin irritation.
H318 Causes serious eye damage.
H317 May cause an allergic skin reaction.
H340 May cause genetic defects.
H350 May cause cancer.
H304 May be fatal if swallowed and enters airways.



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Product Name: 4FARMERS MESOSULFURON 30 OD**Precautionary Statements**

- P202 Do not handle until all safety precautions have been read and understood.
P261 Avoid breathing mist/ spray.
P264 Wash hands thoroughly after handling.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/ physician.
P331 Do NOT induce vomiting.
P302 + P352 IF ON SKIN: Wash with plenty of water/ soap.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P305+351+ P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor/ physician.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local regulation.

Other hazards

No additional hazards known beside those mentioned.

3 . COMPOSITION AND INFORMATION ON INGREDIENTS**Chemical Characterization: Mixtures****Description:** Oil dispersion (OD) Mixture of substances listed below with nonhazardous additions.**Hazardous Components:**

64742-94-5	Solvent naphtha (petroleum), heavy arom.	Aspiration Hazard 1, H304	>20%
135590-91-9	Mefenpyr-diethyl		>9.3
208465-21-8	Mesosulfuron-methyl		>29%

4 . FIRST AID MEASURES**General advice**

Move out of dangerous area. Place and transport victim in stable position (lying sideways).
Remove contaminated clothing immediately and dispose of safely.

Inhalation:

Move to fresh air. Keep patient warm and at rest. Call a physician or poison control center immediately.

Skin Contact:

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap, if available with polyethyleneglycol 400, subsequently rinse with water. Seek medical attention if symptoms occur.

Eye Contact:

In case of eye contact, rinse cautiously with water for at least 15 minutes. Seek medical attention if symptoms occur. Continue rinsing.

Ingestion:

If swallowed, do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Seek immediate medical attention.

Symptoms Caused by Exposure:

If aspirated into lungs may cause pulmonary oedema and pneumonitis. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Treatment: Treat symptomatically. In case of ingestion gastric lavage should be considered in cases of significant ingestions only within the first 2 hours.



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5 . FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water spray(not high volume water jet), Foam, dry chemical powder.

Specific Hazards Arising from the Chemical:

In case of fire the following may be released: Carbon monoxide (CO), Carbon dioxide(CO₂), Nitrogen oxides(NO_x), Sulphur oxides, Hydrogen chloride (HCl), Cyanides

Special Protective Equipment and Precautions for Fire Fighters:

When fighting a major fire wear self-contained breathing apparatus and protective equipment.
Hazhem Code *3Z

6 . ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Wear Safe Work Australia approved respiratory protection and full protective clothing. Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation. Extinguish all sources of ignition. When dealing with spillage do not eat, drink or smoke

Environmental Precautions:

In the event of a major spill, prevent spillage from entering drains or water courses. If product spills to contaminate rivers and lakes inform respective environmental local authorities

Methods and Materials for Containment and Cleaning Up:

Stop leak if safe to do so and absorb spill with sand, earth, vermiculite or some other absorbent material. Collect the spilled material and place into a suitable container for disposal. Wash contaminated area with soap and water observing environmental regulations.

7 . HANDLING AND STORAGE

Precautions for Safe Handling:

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours. Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

Conditions for Safe Storage:

Store in a cool, dry and well ventilated area. Keep container tightly closed when not in use. Protect from heat, or frost. Keep away from food, drink and animal feed.

8 . EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Standards:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Engineering Controls: Ensure adequate ventilation of the working area.

Respiratory Protection:

Respiratory protection is not required under anticipated circumstances of exposure. Respiratory protection is to be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g containment and/or local extract ventilation. Always follow respirator manufacturer's instructions regarding wearing and maintenance.

Skin Protection:

Elbow-length PVC gloves, cotton overall buttoned to the neck and wrist, safety boots and a washable hat. See Australian Standards AS/NZS 2161, 2210.1 and 2210.2 for more information.

Eye and Face Protection:

Eye and face protectors for protection against splashing materials or liquids. See Australian/New Zealand Standard AS/NZS 1337 for more information.



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9 . PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Form:	Liquid
Colour:	yellow to brown
Odour:	aromatic odour
Odour Threshold:	No information available
pH-Value:	5.5- 7.0
Melting point/Melting range:	No data available
Initial Boiling Point/Boiling Range:	No information available
Flash Point:	94°C
Flammability:	No information available
Ignition Temperature:	435°C
Decomposition Temperature:	No information available
Explosion Limits:	No information available
Vapour Pressure:	No information available
Density:	No information available
Relative Density:	No information available
Vapour Density:	No information available
Evaporation Rate:	No information available
Solubility in Water:	Dispersible (20°C).

10 . STABILITY AND REACTIVITY

Possibility of Hazardous Reactions: Stable under normal conditions**Chemical Stability:** Stable at ambient temperature and under normal conditions of use.**Conditions to Avoid:** Frost, Heat, hot surfaces and direct sunlight.**Incompatible Materials:** Strong oxidising agents.**Hazardous Decomposition Products:** No decomposition products expected under normal conditions of use.

11 . TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute oral toxicity	LD50 (Rat) > 5,000 mg/kg
Acute inhalation toxicity	LC50 (Rat) > 1.33 mg/l Exposure time: 4 h Highest attainable concentration. The value mentioned relates to the active ingredient mesosulfuron-methyl.
Acute dermal toxicity	LD50 (Rat) > 2,000 mg/kg
Skin corrosion/irritation	Irritating to skin (Rabbit)
Serious eye damage/eye irritation	Risk of serious damage to eyes (Rabbit)
Respiratory or skin sensitisation	Skin: Sensitising (Guinea pig) OECD Test Guideline 429, local lymph node assay (LLNA)



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Mefenpyr-diethyl was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.
Mesosulfuron-methyl was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

Assessment carcinogenicity

Mefenpyr-diethyl was not carcinogenic in lifetime feeding studies in rats and mice.
Mesosulfuron-methyl was not carcinogenic in lifetime feeding studies in rats and mice.

Assessment toxicity to reproduction

Mefenpyr-diethyl did not cause reproductive toxicity in a two-generation study in rats.
Mesosulfuron-methyl did not cause reproductive toxicity in a two-generation study in rats.

Assessment developmental toxicity

Mefenpyr-diethyl caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Mefenpyr-diethyl are related to maternal toxicity.
Mesosulfuron-methyl did not cause developmental toxicity in rats and rabbits.

Assessment STOT Specific target organ toxicity – single exposure

Mefenpyr-diethyl: Based on available data, the classification criteria are not met.

Mesosulfuron-methyl: Based on available data, the classification criteria are not met.

Assessment STOT Specific target organ toxicity – repeated exposure

Mefenpyr-diethyl did not cause specific target organ toxicity in experimental animal studies.
Mesosulfuron-methyl did not cause specific target organ toxicity in experimental animal studies.

Aspiration hazard

May be fatal if swallowed and enters airways.

Information on likely routes of exposure

May be harmful if inhaled. Inhalation of high concentrations of solvent vapors can cause nausea, vomiting, dizziness, drowsiness and incoordination. Inhalation of high vapour concentrations can cause CNS-depression and narcosis.

Irritating to skin. Prolonged skin contact may cause skin irritation and/or dermatitis. Skin sensitiser. Causes eye damage.

May be harmful if swallowed. Small amounts of the solvent in this product aspirated into the respiratory system during ingestion or vomiting may cause mild to severe pulmonary injury.

Early onset symptoms related to exposure

Refer to Section 4

12 . ECOLOGICAL INFORMATION

Toxicity

Toxicity to fish	LC50 (Oncorhynchus mykiss (rainbow trout)) 3.2 mg/l Exposure time: 96 h
Toxicity to aquatic invertebrates	EC50 (Daphnia magna (Water flea)) 3.4 mg/l Exposure time: 48 h



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Toxicity to aquatic plants	EC50 (Raphidocelis subcapitata (freshwater green alga)) 2.96 mg/l Exposure time: 72 h EC50 (Lemna gibba (gibbous duckweed)) 50.7 µg/l Growth rate; Exposure time: 7 d
Toxicity to other organisms	LD50 (Colinus virginianus (Bobwhite quail)) > 2,000 mg/kg The value mentioned relates to the active ingredient mesosulfuron-methyl. LD50 (Anas platyrhynchos (Mallard duck)) > 2,000 mg/kg The value mentioned relates to the active ingredient mesosulfuron- methyl.
Persistence and degradability	
Biodegradability	Mesosulfuron-methyl: Not rapidly biodegradable Mefenpyr-diethyl: Not rapidly biodegradable
Koc	Mesosulfuron-methyl: Koc: 92 Mefenpyr-diethyl: Koc: 625
Bioaccumulative potential	
Bioaccumulation	Mesosulfuron-methyl: Does not bioaccumulate. Mefenpyr-diethyl: Bioconcentration factor (BCF) 232 Does not bioaccumulate.
Mobility in soil	
Mobility in soil	Mesosulfuron-methyl: Moderately mobile in soils Mefenpyr-diethyl: Slightly mobile in soils
Other adverse effects	
Additional ecological information	No other effects to be mentioned.

13 . DISPOSAL CONSIDERATIONS

Disposal Methods and Containers: Dispose according to applicable local and state government regulations.

Special Precautions for Landfill or Incineration:

Please consult your state Land Waste Management Authority for more information.

14 . TRANSPORT INFORMATION

UN Number 3082

Proper Shipping Name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.
(MESOSULFURON-METHYL, SOLVENT NAPHTHA
(PETROLEUM) HEAVY AROMATIC SOLUTION)

Packing Group: III

Transport Hazard Class 9

Marine pollutant YES

Hazchem Code *3Z



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15 . REGULATORY INFORMATION

APVMA APPROVAL: 89109

Schedule 5 (Standard for the Uniform Scheduling of Medicines and Poisons)

16 . OTHER INFORMATION

Date of Preparation or Last Revision: 28.02.2023

Abbreviations and acronyms:

ADG: Australian Dangerous Goods

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

LCx: Lethal concentration to x%

LDx: Lethal concentration to x%

OECD Organization for Economic Co-operation and Development

Disclaimer

This SDS is prepared in accord with the Safe Work Australia document "Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - December 2011"

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