



Safety Data Sheet according to WHS Regulations

Printing date 21.12.2022 Revision: 21.12.2022

1 Identification

Product Name: 4FARMERS DIMETHOATE 400 SYSTEMIC HERBICIDE

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 Hazard(s) Identification

Hazardous Nature:

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

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition).



Flammable Liquids 3 H226 Flammable liquid and vapour.



Acute Toxicity (Oral) 3 H301 Toxic if swallowed.

Acute Toxicity (Dermal) 3 H311 Toxic in contact with skin.



STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure.



Skin Sensitisation 1 H317 May cause an allergic skin reaction.

Signal Word Danger

Hazard Statements

H226 Flammable liquid and vapour.

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H317 May cause an allergic skin reaction.

H372 Causes damage to organs through prolonged or repeated exposure.

Precautionary Statements

P233 Keep container tightly closed.

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P241 Use explosion-proof electrical/ventilating/lighting equipment.

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| P260 | Do not breathe dust/fume/gas/mist/vapours/spray. |
|----------------|---|
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P240 | Ground/bond container and receiving equipment. |
| P242 | Use only non-sparking tools. |
| P243 | Take precautionary measures against static discharge. |
| P264 | Wash hands thoroughly after handling. |
| P270 | Do not eat, drink or smoke when using this product. |
| P272 | Contaminated work clothing should not be allowed out of the workplace. |
| P301+P310 | IF SWALLOWED: Immediately call a POISON CENTER/ doctor. |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with |
| | water/shower. |
| P321 | Specific treatment (see on this label). |
| P312 | Call a POISON CENTER/doctor if you feel unwell. |
| P333+P313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P314 | Get medical advice/attention if you feel unwell. |
| P330 | Rinse mouth. |
| | |

In case of fire: Use to extinguish: CO2, powder or water spray. P370+P378

Take off immediately all contaminated clothing and wash it before reuse. P361+P364

P405 Store locked up.

P403+P235 Store in a well-ventilated place. Keep cool.

Dispose of contents/container in accordance with local/regional/national regulations. P501

3 Composition and Information on Ingredients

Chemical Characterization: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

| Hazardous Components: | | | |
|-----------------------|---|-----|--|
| | Dimethoate (ISO) | 40% | |
| | Acute Toxicity (Oral) 3, H301; Acute Toxicity (Dermal) 3, H311; STOT RE 1, H372; Acute Toxicity (Inhalation) 4, H332; Skin Sensitisation 1A, H317 | | |
| 108-94-1 | Cyclohexanone | 12% | |
| | Flammable Liquids 3, H226; Acute Toxicity (Inhalation) 4, H332 | | |

Additional information: Petroleum distillate CAS no. not supplied: 40%

4 First Aid Measures

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek immediate medical attention.

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek immediate medical attention.

In case of eye contact, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek immediate medical attention.

Ingestion:

If swallowed, do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Do not give anything by mouth to an unconscious person. Seek immediate medical attention.

Symptoms Caused by Exposure:

Inhalation: Harmful if inhaled. Inhalation of vapours, fumes or aerosols may cause respiratory discomfort and distresse, central nervous system depression, which can lead to loss of coordination, impaired judgement and if exposure is prolonged, unconsciousness. Cyclohexane vapour irritates the nose and throat and may cause

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incoordination, low body temperature, damage to the lungs, liver and kidney, breathlessness, unconsciousness and even death depending on the dose.

Skin Contact: Toxic in contact with skin. There may be sweating and muscle twitches at site of contact. Symptoms may be delayed several hours after exposure. Entry into the blood stream through cuts, abrasions or lesions may produce systemic injusty with harmful effects. Symptoms for skin absorption are the same as for inhalation.

Eye Contact: Direct eye contact may cause tearing, eyelid twitches, pupil contraction, loss of focus, blurred or dimmed vision with dilation of the pupils.

Ingestion: Toxic if swallowed. Ingestion may cause nausea, vomiting, depressed appetite, abdominal cramps and diarrhoea, thirst, acidic bood, breathing difficulties, convulsions, fainting, weakening of the immune system and death.

5 Fire Fighting Measures

Suitable Extinguishing Media:

Foam, dry chemical powder or carbon dioxide. Use water spray or fog for large fires only.

Specific Hazards Arising from the Chemical:

Containers close to fire should be removed if safe to do so. Use water to keep fire exposed containers cool. Vapors are heavier than air and may travel long distance to a source of ignition and flash back.

Hazardous combustion products include oxides of carbon, nitrogen, phosphorus and sulfur, hydrogen chloride, phosgene and other pyrolysis products typical of burning organic material. Flammable liquid.

Special Protective Equipment and Precautions for Fire Fighters:

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

6 Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures:

Wear Safe Work Australia approved respiratory protection and full protective clothing. Evacuate all nonessential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation. Extinguish all sources of ignition. Avoid sparks and open flames. No smoking.

Environmental Precautions:

In the event of a major spill, prevent spillage from entering drains or water courses.

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. Use only non-sparking tools.

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. Use only outdoors or in a well-ventilated area.

Take precautionary measures against static discharge. 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. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

Conditions for Safe Storage:

Store in a cool, dry and well ventilated area. Keep container tightly closed when not in use. Protect from heat, sparks, open flames and other sources of ignition. Keep away from strong oxidising agents.

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8 Exposure controls and personal protection

Exposure Standards:

108-94-1 Cyclohexanone

NES TWA: 100 mg/m³, 25 ppm

Sk

Engineering Controls:

Maintain air concentration below occupational exposure standards, providing adequate ventilation. Use explosion-proof ventilating equipment.

Respiratory Protection:

Use a Safe Work Australia approved respirator with combined dust and gas cartridge (canister) - Class A filter cartridge. See Australian Standards AS/NZS 1715 and 1716 for more information.

Skin Protection:

Elbow length PVC gloves, protective clothing, chemical resistant apron and safety boots. See Australian Standards AS/NZS 2161, 2210.1 and 2210.2 for more information.

Eve 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.

9 Physical and Chemical Properties

Appearance:

Form: Liquid Colour: Pale yellow

Odour:
Odour Threshold:
PH-Value:
No information available

Flash Point: 39 °C Flammability: Flammable.

Auto-ignition Temperature: No information available **Decomposition Temperature:** No information available

Explosion Limits:

Lower:No information availableUpper:No information availableVapour Pressure:No information available

Relative Density: 1.1

Vapour Density:No information availableEvaporation Rate:No information available

Solubility in Water: Immiscible

10 Stability and Reactivity

Possibility of Hazardous Reactions: Hazardous polymerisation will not occur.

Chemical Stability: Stable at ambient temperature and under normal conditions of use.

Conditions to Avoid: Heat, sparks, open flames, hot surfaces and direct sunlight.

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Incompatible Materials:

Strong oxidising agents. Avoid contact of the concentrate with strong alkalis and alkaline materials such as lime.

Hazardous Decomposition Products:

Hazardous combustion products include oxides of carbon, nitrogen, phosphorus and sulfur, hydrogen chloride and phospene.

11 Toxicological Information

Toxicity:

| LD₅₀/LC₅₀ Values Relevant for Classification: 60-51-5 Dimethoate (ISO) | | | | |
|---|-------------------------------|--|--|--|
| Oral | LDL0 | 30 mg/kg (human) 350 mg/l (guinea pig) 60 mg/kg (rat) | | |
| Dermal | TDLo LD₅o | 286 mg/kg (human) (man) 1000 mg/kg (rabbit) 353 mg/kg (rat) | | |
| 108-94-1 (| 08-94-1 Cyclohexanone | | | |
| Oral Dermal Inhalation | EC ₅₀ /4 h TCLo | 1535 mg/kg (rat) 948 mg/kg (rabbit) 8000 mg/l (rat) 75 ppm (human) | | |

Acute Health Effects

Inhalation:

Harmful if inhaled. Inhalation of vapours, fumes or aerosols may cause respiratory discomfort and distresse, central nervous system depression, which can lead to loss of coordination, impaired judgement and if exposure is prolonged, unconsciousness. Cyclohexane vapour irritates the nose and throat and may cause incoordination, low body temperature, damage to the lungs, liver and kidney, breathlessness, unconsciousness and even death depending on the dose.

Skin:

Toxic in contact with skin. There may be sweating and muscle twitches at site of contact. Symptoms may be delayed several hours after exposure. Entry into the blood stream through cuts, abrasions or lesions may produce systemic injusty with harmful effects. Symptoms for skin absorption are the same as for inhalation.

Eye:

Direct eye contact may cause tearing, eyelid twitches, pupil contraction, loss of focus, blurred or dimmed vision with dilation of the pupils.

Ingestion:

Toxic if swallowed. Ingestion may cause nausea, vomiting, depressed appetite, abdominal cramps and diarrhoea, thirst, acidic bood, breathing difficultires, convulsions, fainting, weakening of the immune system and death. Asspiration into the lung from vomiting may cause chemical pneumonitis or pulmonary oedema.

Skin Corrosion / Irritation: Based on classification principles, the classification criteria are not met.

Serious Eye Damage / Irritation: Based on classification principles, the classification criteria are not met.

Respiratory or Skin Sensitisation: May cause an allergic skin reaction.

Germ Cell Mutagenicity: Based on classification principles, the classification criteria are not met.

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Carcinogenicity:

Cyclohexanone is classified by IARC as Group 3 - Not classifiable as to its carcinogenicity to humans.

Reproductive Toxicity: Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Single Exposure:

Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Repeated Exposure:

Causes damage to organs through prolonged or repeated exposure.

Aspiration Hazard: Based on classification principles, the classification criteria are not met.

Chronic Health Effects:

Repeated or prolonged contact will cause effects similar to acute symtpoms in addition to impaired memory and loss of concentration, severe depression and acute psychosis, irratability, confusion, apathy, emotional liability, speech difficulties, headache, spatial disorientation, delayed reaction times, sleepwalking, drowsiness or insomnia.

Long term cyclohexanone exposure may cause liver and kidney changes, clouding of the eye lens and cataract development.

Additional toxicological information:

The Australian Acceptable Daily Intake (ADI) for dimethoate for a human is 0.001 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 0.1 mg/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 Health and Ageing Office of Chemical Safety, 'ADI List', June 2014).

12 Ecological Information

Ecotoxicity: Dimethoate is highly toxic to bees. Dimethoate is moderate to highly toxic to birds.

Aquatic toxicity:

60-51-5 Dimethoate (ISO)

 LC_{50}

6 mg/l (bluegill)

6.2 mg/l (rainbow trout)

>5000 mg/l (fish) (cat fish)

Persistence and Degradability:

This product is biodegradable. It will not accumulate in the soil or water. The persistence of dimethoate and cyclohexanone in water/soil is low.

Bioaccumulative Potential: The bioaccumulation potential of dimethoate and cyclohexanone is low.

Mobility in Soil: The mobility of dimethoate and cyclohexanone is high.

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 ADG, IMDG, IATA

UN3017

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Proper Shipping Name

3017 ORGANOPHOSPHORUS PESTICIDE, LIQUID, **ADG**

TOXIC, FLAMMABLE, ENVIRONME NTALLY

HAZARDOUS

IMDG, IATA ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC,

FLAMMABLE

Dangerous Goods Class

ADG Class: 6.1 Toxic substances.

Subsidiary Risk:

Packing Group:

ADG, IMDG, IATA Ш Marine pollutant: No **Hazchem Code:** 3W

Special Provisions: 61, 223, 274

Limited Quantities: 5L

Packagings & IBCs - Packing Instruction: P001, IBC03 Packagings & IBCs - Special Packing Provisions: Not applicable

Portable Tanks & Bulk Containers - Instructions: T7

Portable Tanks & Bulk Containers - Special

Provisions: TP2, TP28

15 Regulatory information

Australian Inventory of Chemical Substances:

60-51-5 Dimethoate (ISO) 108-94-1 Cyclohexanone

Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule:

Poisons Schedule: 6

16 Other information

Date of Preparation or Last Revision: 21.12.2022

Abbreviations and acronyms:

ADG: Australian Dangerous Goods

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals 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)

Flammable Liquids 3: Flammable liquids - Category 3 Acute Toxicity (Oral) 3: Acute toxicity - Category 3 Acute Toxicity (Inhalation) 4: Acute toxicity - Category 4 Skin Sensitisation 1: Skin sensitisation, Hazard Category 1 Skin Sensitisation 1A: Skin sensitisation, Hazard Category 1A

STOT RE 1: Specific target organ toxicity (repeated exposure) - Category 1

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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 - February 2016"

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