1. Identification

GHS Product Identifier

Product Code 1070

Product Type Group 1B Insecticide

Company Name NUFARM AUSTRALIA LIMITED. (ABN 80 004 377 780)

Address 103-105 Pipe Road Laverton North

Victoria 3026 Australia

Telephone/Fax Tel: +61 3 9282-1000

Fax: +61 3 9282-1001

Emergency phone number 1800 033 498 (24hr Australia)

Recommended use of the chemical and restrictions on use

For the control of a wide range of pests on fruit, vegetables, pastures, cotton, lucerne, peanuts and ornamentals as per the Directions for Use table on the label.

Other Information

This Safety Data Sheet describes the properties of the concentrated product. The physical properties and the assessments may not apply to the properties of the product once it has been diluted for application.

2. Hazard Identification

GHS classification of the substance/mixture

CA2 Carcinogenicity: Category 2

OT4 Acute Toxicity - Oral: Category 4

DT4 Acute Toxicity - Dermal: Category 4

GT/VT/IT 4 Acute Toxicity - Inhalation: Category 4

AH1 Aspiration Hazard: Category 1

Se-3Narc STOT Single Exposure Category 3 (narcotic)

FL3 Flammable Liquids: Category 3

Signal Word(s) DANGER

Hazard Statement(s)

H351 Suspected of causing cancer.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

H304 May be fatal if swallowed and enters airways.

H336 May cause drowsiness or dizziness.

AUHD56 Repeated exposure may cause skin dryness or cracking

H226 Flammable liquid and vapour.

General

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

Precautionary Statement(s)

Exclamation mark, Health hazard, Flame,

The below pictograms are GHS Hazard symbols for workplace use only.

See SECTION 14 for Dangerous Goods information.

Precautionary statement – Prevention

P202 Do not handle until all safety precautions have been read and understood.

P264 Wash hands and exposed skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves, clothing, eye and face protection.

P261 Avoid breathing mists, vapours or spray.

P271 Use only outdoors or in a well-ventilated area.

P210 Keep away from sparks, open flames and hot surfaces. - No smoking.

P233 Keep container tightly closed.

P241 Use explosion-proof electrical equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.
Precautionary statement – Response

**P308+P313** IF exposed or concerned: Get medical advice.

**P301+P310** IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

**P330** Rinse mouth.

**P303+P361+P353** IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

**P312** Call a POISON CENTER or doctor/physician if you feel unwell.

**P363** Wash contaminated clothing before reuse.

**P304+P340** IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

**P312** Call a POISON CENTER or doctor/physician if you feel unwell.

**P301+P310** IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

**P331** Do NOT induce vomiting.

Poisons Schedule S6

### 3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Chemical Characterization</th>
<th>Ingredients</th>
<th>Name</th>
<th>CAS</th>
<th>Proportion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid</td>
<td></td>
<td>Dimethoate</td>
<td>60-51-5</td>
<td>400 g/L</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Cyclohexanone</td>
<td>108-94-1</td>
<td>30-60 %</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Liquid Hydrocarbons</td>
<td>64742-94-5</td>
<td>255 g/L</td>
</tr>
<tr>
<td></td>
<td>Other ingredients</td>
<td>(considered non-hazardous)</td>
<td>Balance</td>
<td></td>
</tr>
</tbody>
</table>

### 4. First-aid measures

**Inhalation**
Remove affected person to fresh air until recovered. Obtain medical assistance.

**Ingestion**
Rinse mouth thoroughly with water.
Give a glass of water.
Seek medical advice immediately.

If swallowed do NOT induce vomiting; seek medical advice immediately and show this container or label or contact the Poisons Information Centre on 13 11 26 (Aust). Make every effort to prevent vomit from entering the lungs by careful placement of the patient.

**Skin**
Remove contaminated clothing and wash skin thoroughly with soap and water.
Obtain medical advice immediately.

**Eye contact**
If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes.
Seek medical advice.

**First Aid Facilities**
If poisoning occurs, contact a doctor or the Poisons Information Centre (Australia) on 13 11 26.

**Advice to Doctor**
Vomiting may cause pulmonary aspiration. The stomach should be emptied as soon as possible by careful gastric lavage (using a cuffed endotracheal tube already in place). Artificial respiration should be started at the first sign of respiratory failure. Cautious administration of fluids is advised, as well as general supportive and symptomatic pharmacological treatment and absolute rest. As early as possible, administer 2 mg of atropine sulfate i.v. and 1000-2000 mg of pralidoxime chloride or 250 mg of oxibdione chloride (adult dose) i.v. to patients suffering from severe respiratory difficulties, convulsions, and unconsciousness. Repeated doses of 2 mg of atropine sulfate should be given, as required, based on the respiration, blood pressure, pulse frequency, salivation, and convolution conditions. The dose and the frequency of atropine varies with each patient, but the patient should remain fully atropinised (signs include dilated pupils, dry mouth, skin flushing). Diazepam should be given in all but the mildest cases in doses of 10 mg, s.c. or i.v., which may be repeated as required. For children, the doses are 0.04-0.08 mg of atropine/kg body weight, 250 mg of pralidoxime chloride per child, or 4-8 mg of oxibdione chloride/kg body weight. Morphine, barbiturates, phenothiazine derivatives, tranquillizers, and all kinds of central stimulants are contraindicated.

### 5. Fire-fighting measures
Safety Data Sheet

Infosafe No™ NU011  Issue Date :February 2016  ISSUED by NUFARM

Product Name DIMETHOATE Systemic Insecticide

Classified as hazardous

Suitable extinguishing media
Water fog, foam, carbon dioxide or dry chemical.

Hazard from Combustion Products
If involved in a fire, it will emit dimethyl sulphide, methyl mercaptans and possibly phosphorus pentoxide.

Special Protective Equipment for fire fighters
Breathable air apparatus may have to be worn if material is involved in fires especially in confined spaces.

Hazchem Code
2W

Other Information
STOP FIRE WATER FROM ENTERING DRAINS OR WATER BODIES.

6. Accidental release measures

Spills & Disposal
Contain spill and absorb with clay, sand, soil or proprietary absorbent (such as vermiculite).
Collect spilled material and waste in sealable open-top type containers for disposal.
Do NOT flush with water.

Clean-up Methods - Large Spillages
Place damaged containers in recovery bins (if available) and return to manufacturer.

Environmental Precautions
Contaminated earth (after a spill) can be treated with lime to hasten decomposition of the active ingredient.
At pH9, approximately 50% will decompose in 12 days.

7. Handling and storage

Conditions for safe storage, including any incompatibilities
Store in the closed, original container in a dry, cool well ventilated area out of direct sunlight.
Store in a locked enclosure.
Keep container tightly sealed and do not store with seed, fertilisers or foodstuffs.
Protect from direct sunlight and temperatures above 40°C.
If storing for more than 2-3 months, avoid temperatures above 30°C.

Other Information
Always read the label and any attached leaflet before use.

8. Exposure controls/personal protection

Occupational exposure limit values
No biological exposure limit allocated.
No exposure standard for this product has been set, however, an exposure standard has been set for cyclohexanone at 100 mg/m³.
The manufacturer of the solvent has recommended an occupational exposure limit of 100 mg/m³; 17ppm TWA, as total hydrocarbon.

Appropriate engineering controls
Natural ventilation is sufficient when handling concentrate and preparing spray solution.

Respiratory Protection
Do not inhale spray mist.

Personal Protective Equipment
When opening the container, preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves, goggles, impervious footwear and half piece respirator with combined dust and gas cartridge (canister).
Class A filter cartridge.

Hygiene Measures
After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.
After each day's use, wash contaminated clothing and safety equipment.

Requirements Concerning Special Training
Check State or Territory regulations that require people who use pesticides in their job or business to have training in the application of the materials.

9. Physical and chemical properties

Form Liquid
Appearance Amber liquid
Odour Characteristic odour
Safety Data Sheet

Infosafe No™ NU011 Issue Date: February 2016 ISSUED by NUFAR

Product Name DIMETHOATE Systemic Insecticide

Classified as hazardous

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solubility in Water</td>
<td>Disperses in water. Not soluble.</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.057</td>
</tr>
<tr>
<td>Vapour Pressure</td>
<td>0.25 mPa @ 25°C for dimethoate</td>
</tr>
<tr>
<td>Surface Tension</td>
<td>9.5 mN/m</td>
</tr>
<tr>
<td>Flash Point</td>
<td>52°C</td>
</tr>
<tr>
<td>Flammability</td>
<td>Flammable Liquid.</td>
</tr>
<tr>
<td>Flammable Limits - Lower</td>
<td>1.3% for cyclohexanone</td>
</tr>
<tr>
<td>Flammable Limits - Upper</td>
<td>9.4% for cyclohexanone</td>
</tr>
<tr>
<td>Kinematic Viscosity</td>
<td>4.7 x 10^-6 m2/sec</td>
</tr>
</tbody>
</table>

10. Stability and reactivity

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Stability</td>
<td>Stable under normal conditions.</td>
</tr>
<tr>
<td>Hydrolyses at pH &gt;7.</td>
<td></td>
</tr>
<tr>
<td>Incompatible Materials</td>
<td>Avoid contact of the concentrate with strong alkalis and alkaline materials such as lime.</td>
</tr>
<tr>
<td>Possibility of</td>
<td>Keep away from strong oxidising agents.</td>
</tr>
<tr>
<td>Hazardous reactions</td>
<td></td>
</tr>
<tr>
<td>Hazardous Polymerization</td>
<td>Hazardous polymerisation is not possible.</td>
</tr>
</tbody>
</table>

11. Toxicological Information

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toxicology Information</td>
<td>No harmful effects are expected if the precautions on the label and this MSDS are followed.</td>
</tr>
<tr>
<td>Acute Toxicity - Oral</td>
<td>LD50 (rat) 250 - 325 mg/kg for dimethoate</td>
</tr>
<tr>
<td>Acute Toxicity - Dermal</td>
<td>LD50 (rat) &gt;2000 mg/kg for dimethoate</td>
</tr>
<tr>
<td>Acute Toxicity - Inhalation</td>
<td>LC50 (rat) (4hr) &gt;1.6 mg/l for dimethoate</td>
</tr>
<tr>
<td>Ingestion</td>
<td>The concentrate is harmful if swallowed.</td>
</tr>
<tr>
<td></td>
<td>Symptoms of overexposure to large quantities of product may include: nausea, vomiting, abdominal pains, diarrhea, pinpoint pupils, blurred vision, profuse sweating, salivations and muscle twitching.</td>
</tr>
<tr>
<td></td>
<td>If aspirated into the lung, e.g. from vomiting, the presence of solvent may result in chemical pneumonitis or pulmonary oedema.</td>
</tr>
<tr>
<td>Inhalation</td>
<td>Breathing vapour can result in headaches, dizziness and possible nausea.</td>
</tr>
<tr>
<td></td>
<td>Breathing in high concentrations of vapour can produce central nervous system depression, which can lead to loss of coordination, impaired judgement and if exposure is prolonged, unconsciousness.</td>
</tr>
<tr>
<td>Skin</td>
<td>Prolonged contact with the concentrate may result in absorption of dimethoate in harmful amounts.</td>
</tr>
<tr>
<td></td>
<td>Prolonged contact with the concentrate can cause defatting of the skin and may result in dermatitis.</td>
</tr>
<tr>
<td>Eye</td>
<td>The concentrate may cause irritation of the eyes.</td>
</tr>
<tr>
<td>Skin Sensitisation</td>
<td>Product is not a skin sensitiser.</td>
</tr>
<tr>
<td>Chronic Effects</td>
<td>Regular exposure may result in lowering of cholinesterase activity which will recover within a few days after exposure ceases.</td>
</tr>
<tr>
<td></td>
<td>Regular exposure may result in effects on the liver and blood.</td>
</tr>
<tr>
<td></td>
<td>Not a skin irritant.</td>
</tr>
<tr>
<td>corosion/irritation</td>
<td>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', December 2014).</td>
</tr>
</tbody>
</table>
12. Ecological information

Persistence and degradability: Not readily biodegradable.
Other Precautions: Do not spray in high winds. Do not contaminate dams, waterways or sewers with this product.

Environmental Protection:
Acute Toxicity - Fish: The following is data for the active ingredient, dimethoate. LC50 (96hr) for rainbow trout is 6.2 mg/l.
Acute Toxicity - Daphnia: EC50 (48hr) is (for dimethoate) 3.3 mg/l.

Acute Toxicity - Other Organisms: The following data is for the active ingredient, dimethoate. Moderately toxic to birds. LD50 for mallard ducks is 41.7 mg/kg. Bees: Toxic to bees. LD50 0.17 µg/bee.

13. Disposal considerations

Product Disposal: On site disposal of the concentrated product is not acceptable. Ideally, the product should be used for its intended purpose. If there is a need to dispose of the product, approach local authorities who hold periodic collections of unwanted chemicals (ChemClear®).

Container Disposal: Do not use this container for any other purpose. Triple or preferably pressure rinse containers before disposal. Add rinsings to the spray tank. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and deliver empty packaging for appropriate disposal at an approved waste management facility.

If an approved waste management facility is not available, bury the empty packaging 500mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant local, state or territory government regulations. Empty containers and product should not be burnt.

Returnable containers: empty contents fully into application equipment. Replace cap, close all valves and return to the point of supply for refill or storage.

14. Transport information

Transport Information: It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.
U.N. Number: 3017
UN proper shipping name: ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC, FLAMMABLE - (contains Dimethoate and hydrocarbon solvent)
Transport hazard class(es): 6.1
Sub.Risk: 3
Hazchem Code: 2W
Packaging Method: 3.8.6
Packing Group: III
Storage and Transport: Considered dangerous for transport by the Australian Code for the Transport of Dangerous Goods by Road and Rail.
EPG Number: 6C3
IERG Number: 17
IMO Marine Pollutant: Marine Pollutant

15. Regulatory information
WHS Schedule 11: item 8 - Flammable Liquid category 3.

There is a legislative requirement in most States in Australia for workers to be medically monitored when using organophosphates, by: 'estimation of red cell and plasma cholinesterase activity towards the end of the day on which organophosphates have been used'.

Ref: Control of Workplace Hazardous Substances, NOHSC:1005.

This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA). APVMA product number: 32962.

Revised 03/02/2016
This SDS replaces document dated December 2014.

Normal Hours: Mrs Kathleen Marsh Phone: +61 3 9282 1000
After Hours: Shift Supervisor Phone: 1800 033 498

The SDS was reviewed. Minor changes were made to the information.
This SDS only refers to the 5L and 20L pack sizes available for future sale.

...End Of MSDS...
1. Identification

**GHS Product Identifier**

DIMETHOATE Systemic Insecticide

**Product Code**

1070

**Product Type**

Group 1B Insecticide

**Company Name**

NUFARM AUSTRALIA LIMITED. (ABN 80 004 377 780)

**Address**

103-105 Pipe Road Laverton North Victoria 3026 Australia

**Telephone/Fax Number**

Tel: +61 3 9282-1000
Fax: +61 3 9282-1001

**Emergency phone number**

1800 033 498 (24hr Australia)

**Recommended use of the chemical and restrictions on use**

For the control of a wide range of pests on fruit, vegetables, pastures, cotton, lucerne, peanuts and ornamentals as per the Directions for Use table on the label.

**Other Information**

This Safety Data Sheet describes the properties of the concentrated product. The physical properties and the assessments may not apply to the properties of the product once it has been diluted for application.

2. Hazard Identification

**GHS classification of the substance/mixture**

OT4 Acute Toxicity - Oral: Category 4
SC-2 Skin Corrosion/Irritation: Category 2
FL2 Flammable Liquids: Category 2

**Signal Word(s)**

WARNING

**Hazard Statement(s)**

H302 Harmful if swallowed.
H315 Causes skin irritation.
H226 Flammable liquid and vapour.

**General Precautionary Statement(s)**

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.

**Pictogram(s)**

Exclamation mark, Flame,
The below pictograms are GHS Hazard symbols for workplace use only.
See SECTION 14 for Dangerous Goods information.

**Precautionary statement – Prevention**

P264 Wash hands and exposed skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves, clothing, eye and face protection.
P210 Keep away from sparks, open flames and hot surfaces. - No smoking.
P233 Keep container tightly closed.
P241 Use explosion-proof electrical equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P330 Rinse mouth.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.

**Precautionary statement – Response**

Poisons Schedule S6

3. Composition/information on ingredients

**Chemical Characterization**

Liquid

**Ingredients**

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS</th>
<th>Proportion</th>
</tr>
</thead>
</table>

Print Date: 29/01/2016
Safety Data Sheet

Infosafe No™ 3NUVY  Issue Date: February 2016  ISSUED by NUFARM

Product Name  DIMETHOATE Systemic Insecticide

Classified as hazardous

<table>
<thead>
<tr>
<th>Substances</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimethoate</td>
<td>60-51-5</td>
</tr>
<tr>
<td>Cyclohexanone</td>
<td>108-94-1</td>
</tr>
<tr>
<td>Xylene</td>
<td>1330-20-7</td>
</tr>
<tr>
<td>Other ingredients</td>
<td>Balance</td>
</tr>
</tbody>
</table>

4. First-aid measures

Inhalation
Remove affected person to fresh air until recovered. Obtain medical assistance. Rinse mouth thoroughly with water. Give a glass of water. Seek medical advice immediately. If swallowed do NOT induce vomiting; seek medical advice immediately and show this container or label or contact the Poisons Information Centre on 13 11 26 (Aust). Make every effort to prevent vomit from entering the lungs by careful placement of the patient.

Ingestion
Remove contaminated clothing and wash skin thoroughly with soap and water. Obtain medical advice immediately. If swallowed do NOT induce vomiting; seek medical advice immediately and show this container or label or contact the Poisons Information Centre on 13 11 26 (Aust). Make every effort to prevent vomit from entering the lungs by careful placement of the patient.

Skin
If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes. Seek medical advice.

Eye contact
If poisoning occurs, contact a doctor or the Poisons Information Centre (Australia) on 13 11 26. Vomiting may cause pulmonary aspiration. The stomach should be emptied as soon as possible by careful gastric lavage (using a cuffed endotracheal tube already in place). Artificial respiration should be started at the first sign of respiratory failure. Cautious administration of fluids is advised, as well as general supportive and symptomatic pharmacological treatment and absolute rest. As early as possible, administer 2 mg of atropine sulfate i.v. and 1000-2000 mg of pralidoxime chloride or 250 mg of obidoxime chloride (adult dose) i.v. to patients suffering from severe respiratory difficulties, convulsions, and unconsciousness. Repeated doses of 2 mg of atropine sulfate should be given, as required, based on the respiration, blood pressure, pulse frequency, salivation, and convolution conditions. The dose and the frequency of atropine varies with each patient, but the patient should remain fully atropinised (signs include dilated pupil, dry mouth, skin flushing). Diazepam should be given in all but the mildest cases in doses of 10 mg, s.c. or i.v., which may be repeated as required. For children, the doses are 0.04-0.08 mg of atropine/kg body weight, 250 mg of pralidoxime chloride per child, or 4-8 mg of obidoxime chloride/kg body weight. Morphine, barbiturates, phenothiazine derivatives, tranquilizers, and all kinds of central stimulants are contraindicated.

Advice to Doctor

5. Fire-fighting measures

Suitable extinguishing media
Water fog, foam, carbon dioxide or dry chemical.

Hazards from Combustion Products
If involved in a fire, it will emit dimethyl sulphide, methyl mercaptans and possibly phosphorus pentoxide.

Special Protective Equipment for firefighters
Breathable air apparatus may have to be worn if material is involved in fires especially in confined spaces.

Hazchem Code
3Y

Other Information
STOP FIRE WATER FROM ENTERING DRAINS OR WATER BODIES.

6. Accidental release measures

Spills & Disposal
Contain spill and absorb with clay, sand, soil or proprietary absorbent (such as vermiculite). Collect spilled material and waste in sealable open-top type containers for disposal. Do NOT flush with water.
Safety Data Sheet

Infosafe No™ 3NUVY Issue Date: February 2016 ISSUED by NUFARM

Product Name DIMETHOATE Systemic Insecticide

Classified as hazardous

Clean-up Methods -
Large Spillages
Place damaged containers in recovery bins (if available) and return to manufacturer.

Environmental Precautions
Contaminated earth (after a spill) can be treated with lime to hasten decomposition of the active ingredient.
At pH9, approximately 50% will decompose in 12 days.

7. Handling and storage

Conditions for safe storage, including any incompatibilities
Store in the closed, original container in a dry, cool well ventilated area out of direct sunlight.
Store in a locked enclosure.
Keep container tightly sealed and do not store with seed, fertilisers or foodstuffs.
Protect from direct sunlight and temperatures above 40°C.
If storing for more than 2-3 months, avoid temperatures above 30°C.
Always read the label and any attached leaflet before use.

Other Information

8. Exposure controls/personal protection

Occupational exposure limit values
No biological exposure limit allocated.
No exposure standard for this product has been set, however, an exposure standard has been set for cyclohexanone at 100 mg/m³.
The manufacturer has recommended the following exposure standard for xylene:
TLV (TWA) 350 mg/m³, STEL 655 mg/m³.

Appropriate engineering controls
Natural ventilation is sufficient when handling concentrate and preparing spray solution.

Respiratory Protection
Do not inhale spray mist.

Personal Protective Equipment
When opening the container, preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves, goggles, impervious footwear and half piece respirator with combined dust and gas cartridge (canister).
Class A filter cartridge.

Hygiene Measures
After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.
After each day’s use, wash contaminated clothing and safety equipment.

Check State or Territory regulations that require people who use pesticides in their job or business to have training in the application of the materials.

9. Physical and chemical properties

Form LIQUID
Appearance Amber liquid
Odour Characteristic odour
Solubility in Water Disperses in water. Not soluble.
Specific Gravity 1.055
Vapour Pressure 0.25 mPa @ 25°C for dimethoate
Flash Point 39°C
Flammability Flammable Liquid. GHS category 3.
Flammable Limits - Lower 1.0% for xylene
Flammable Limits - Upper 9.4% for cyclohexanone

10. Stability and reactivity

Chemical Stability Stable under normal conditions.
Hydrolyses at pH >7.

Incompatible Materials
Avoid contact of the concentrate with strong alkalis and alkaline materials such as lime.
Safety Data Sheet

Infosafe No™ 3NUVY Issue Date: February 2016 ISSUED by NUFARM

Product Name DIMETHOATE Systemic Insecticide

Classified as hazardous

1. Possibility of Hazardous reactions

Hazardous Polymerization
Keep away from strong oxidising agents.

2. Hazardous Polymerization

Hazardous polymerisation is not possible.

11. Toxicological Information

Toxicology Information

No harmful effects are expected if the precautions on the label and this MSDS are followed.

Acute Toxicity - Oral
LD50 (rat) 550 mg/kg for mixture (ATE calculation)

Acute Toxicity - Dermal
LD50 (rat) >2000 mg/kg for dimethoate

Acute Toxicity - Ingestion
LC50 (rat) (4hr) >1.6 mg/l for dimethoate

Inhalation

The concentrate is harmful if swallowed.

Symptoms of overexposure to large quantities of product may include:

- Nausea, vomiting, abdominal pains, diarrhea, pinpoint pupils, blurred vision, profuse sweating, salivations and muscle twitching.

- If aspirated into the lung, e.g. from vomiting, the presence of solvent may result in chemical pneumonitis or pulmonary oedema.

- Breathing in high concentrations of vapour can produce central nervous system depression, which can lead to loss of coordination, impaired judgement and if exposure is prolonged, unconsciousness.

Skin

Prolonged contact with the concentrate may result in absorption of dimethoate in harmful amounts.

Eye

Prolonged contact with the concentrate can cause defatting of the skin and may result in dermatitis.

The concentrate may cause irritation of the eyes.

Skin Sensitisation

Product is not a skin sensitisier.

Chronic Effects

Regular exposure may result in lowering of cholinesterase activity which will recover within a few days after exposure ceases.

Regular exposure may result in effects on the liver and blood.

Skin corrosion/irritation

Not a skin irritant.

Other 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', December 2014).

12. Ecological information

Persistence and degradability
Not readily biodegradable.

Other Precautions
Do not spray in high winds.

Do not contaminate dams, waterways or sewers with this product.

Environmental Protection
Marine pollutant.

Acute Toxicity - Fish
LC50 (96hr) for rainbow trout is 30 mg/l.

EC50 (48hr) is (for dimethoate) 2.0 mg/l.

Acute Toxicity - Daphnia

Acute Toxicity - Other Organisms

The following data is for the active ingredient, dimethoate.

Moderately toxic to birds.

LD50 for mallard ducks is 41.7 mg/kg

Bees: Toxic to bees. LD50 0.17 µg/bee.

13. Disposal considerations

Product Disposal
On site disposal of the concentrated product is not acceptable.

Ideally, the product should be used for its intended purpose. If there is a need to dispose of the product, approach local authorities who hold periodic
Safety Data Sheet

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Product Name DIMETHOATE Systemic Insecticide

Classified as hazardous

Container Disposal

Collections of unwanted chemicals (ChemClear®).
Do not use this container for any other purpose.
Triple or preferably pressure rinse containers before disposal. Add rinsings to the spray tank.
If recycling, replace cap and return clean containers to recycler or designated collection point.
If not recycling, break, crush or puncture and deliver empty packaging for appropriate disposal at an approved waste management facility.
If an approved waste management facility is not available, bury the empty packaging 500mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant local, state or territory government regulations.
Empty containers and product should not be burnt.
Returnable containers: empty contents fully into application equipment.
Replace cap, close all valves and return to the point of supply for refill or storage.

14. Transport Information

Transport Information

UN proper shipping name
FLAMMABLE LIQUID, N.O.S. - (contains Dimethoate and xylene)

Transport hazard class(es)
3

Hazchem Code
3Y

Packaging Method
3.8.6

Packing Group
III

Storage and Transport
Considered dangerous for transport by the Australian Code for the Transport of Dangerous Goods by Road and Rail.
EPG Number
6C3
IERG Number
14
IMO Marine Pollutant
Marine Pollutant

15. Regulatory Information

Regulatory Information
WHS Schedule 11: item 8 - Flammable Liquid category 3.
Poisons Schedule
S6

National and or International

Regulatory Information
There is a legislative requirement in most States in Australia for workers to be medically monitored when using organophosphates, by:- 'estimation of red cell and plasma cholinesterase activity towards the end of the day on which organophosphates have been used'.
Ref: Control of Workplace Hazardous Substances, NOHSC:1005.

Packaging & Labelling
POISON
KEEP OUT OF REACH OF CHILDREN
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Other Information
This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA). APVMA product number: 32962.

16. Other Information

Date of preparation or last revision of SDS
29/01/2016

Contact
Normal Hours: Mrs Kathleen Marsh     Phone: +61 3 9282 1000
After Hours: Shift Supervisor     Phone: 1800 033 498

Revisions
First Issue

Highlighted
This SDS only refers to the 10L pack sizes available for future sale.
Safety Data Sheet

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...End Of MSDS...