

SAFETY DATA SHEET

DANADIM INSECTICIDE



Version	Revision Date:	SDS Number:	Date of last issue: 17.09.2021
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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : DANADIM INSECTICIDE

Other means of identification : DIMETHOATE 400 G/L EC

Recommended use of the chemical and restrictions on use

Recommended use : Can be used as insecticide only.

Restrictions on use : Use as recommended by the label.

Manufacturer or supplier's details

Company : FMC Australasia Pty Ltd

Address : Building B, Suite G.01, 12 Julius Avenue
North Ryde NSW 2113
Australia

Telephone : 1 800 066 355

Telefax : (02) 9923 6011

E-mail address : SDS-Info@fmc.com

Emergency telephone number : For leak, fire, spill or accident emergencies, call:
1800 033 111 (Ixm)

Medical emergency:
1 800 033 111 (Transport and 24 h Medical information)

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids : Category 3

Acute toxicity (Oral) : Category 4

Serious eye damage/eye irritation : Category 2A

Skin sensitisation : Sub-category 1B

Specific target organ toxicity - repeated exposure : Category 1 (Nervous system)

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GHS label elements

Hazard pictograms



Signal word

: Danger

Hazard statements

: H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H372 Causes damage to organs (Nervous system) through prolonged or repeated exposure.

Precautionary statements

: **Prevention:**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting equipment.
P242 Use non-sparking tools.
P243 Take action to prevent static discharges.
P260 Do not breathe mist or vapours.
P264 Wash skin 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.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P314 Get medical advice/ attention if you feel unwell.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

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

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Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
dimethoate (ISO)	60-51-5	>= 30 -< 60
cyclohexanone	108-94-1	>= 30 -< 60
Aromatic hydrocarbons, C9; Alkylbenzenes; C9-aromatics	128601-23-0	>= 1 -< 10
maleic anhydride	108-31-6	>= 0.1 -< 1

SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
- If inhaled : Remove to fresh air.
Call a physician or poison control centre immediately.
If unconscious, place in recovery position and seek medical advice.
- In case of skin contact : If on clothes, remove clothes.
If on skin, rinse well with water.
Wash off with soap and plenty of water.
Get medical attention immediately if irritation develops and persists.
- In case of eye contact : Immediately flush eye(s) with plenty of water.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Take victim immediately to hospital.
Do not induce vomiting without medical advice.
- Most important symptoms and effects, both acute and : Harmful if swallowed.
May cause an allergic skin reaction.

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delayed Causes serious eye irritation.
Causes damage to organs through prolonged or repeated exposure.

Protection of first-aiders : Avoid inhalation, ingestion and contact with skin and eyes.

Notes to physician : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Dry chemical, CO₂, water spray or regular foam.

Unsuitable extinguishing media : High volume water jet
Do not spread spilled material with high-pressure water streams.

Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.
The product may decompose rapidly when heated, which can result in explosion.

Hazardous combustion products : Fire may produce irritating, corrosive and/or toxic gases.
Oxides of phosphorus
Nitrogen oxides (NO_x)
Carbon oxides
Sulphur oxides

Specific extinguishing methods : Remove undamaged containers from fire area if it is safe to do so.
Use a water spray to cool fully closed containers.
Standard procedure for chemical fires.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
For safety reasons in case of fire, cans should be stored separately in closed containments.

Special protective equipment for firefighters : Firefighters should wear protective clothing and self-contained breathing apparatus.

Hazchem Code : •3Y

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Evacuate personnel to safe areas.
Use personal protective equipment.
If it can be safely done, stop the leak.
Do not touch or walk through the spilled material.

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Never return spills in original containers for re-use.
Mark the contaminated area with signs and prevent access to unauthorized personnel.
Only qualified personnel equipped with suitable protective equipment may intervene.
For disposal considerations see section 13.

Environmental precautions : If the product contaminates rivers and lakes or drains inform respective authorities.
Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.

Methods and materials for containment and cleaning up : Never return spills in original containers for re-use.
Collect as much of the spill as possible with a suitable absorbent material.
Pick up and transfer to properly labelled containers.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Do not spray on a naked flame or any incandescent material.
Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).
Keep away from open flames, hot surfaces and sources of ignition.

Advice on safe handling : Avoid formation of aerosol.
Do not breathe vapours/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Take precautionary measures against static discharges.
Provide sufficient air exchange and/or exhaust in work rooms.
Open drum carefully as content may be under pressure.
Dispose of rinse water in accordance with local and national regulations.
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

The product is flammable. Formation of explosive vapour-air mixtures is possible. Fire prevention measures should be taken.
Handle with extreme care.
Never return unused material to storage receptacle.
Keep away from flames and sparks.

Hygiene measures : General industrial hygiene practice.

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Avoid contact with skin, eyes and clothing.
Do not inhale aerosol.

When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.
Remove and wash contaminated clothing and gloves, including the inside, before re-use.

Conditions for safe storage : No smoking.
Keep container tightly closed in a dry and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Observe label precautions.
Electrical installations / working materials must comply with the technological safety standards.

Further information on storage conditions : Recommended storage temperature 20 - 25°C.
Store in closed, labelled containers. The storage room should be constructed of incombustible material, closed, dry, ventilated and with impermeable floor, without access of unauthorised persons or children. A warning sign reading "POISON" is recommended. The room should only be used for storage of chemicals. Food, drink, feed and seed should not be present. A hand wash station should be available.

Materials to avoid : Do not store near acids.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
cyclohexanone	108-94-1	TWA	25 ppm 100 mg/m ³	AU OEL
		Further information: Skin absorption		
		TWA STEL	20 ppm 50 ppm	ACGIH ACGIH
maleic anhydride	108-31-6	TWA	0.25 ppm 1 mg/m ³	AU OEL
		Further information: Sensitiser		
		TWA (Inhalable fraction and vapor)	0.01 mg/m ³	ACGIH

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
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cyclohexanone	108-94-1	1,2-Cyclohexanediol	Urine	End of shift at end of work-week	80 mg/l	ACGIH BEI
		Cyclohexanol	Urine	End of shift (As soon as possible after exposure ceases)	8 mg/l	ACGIH BEI
dimethoate (ISO)	60-51-5	Acetylcholinesterase activity	In red blood cells	End of shift	70 % of an individual's baseline	ACGIH BEI
		Butyrylcholinesterase activity	In serum or plasma	End of shift	60 % of an individual's baseline	ACGIH BEI

Personal protective equipment

Respiratory protection : In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

Hand protection
Material : Wear chemical resistant gloves, such as barrier laminate, butyl rubber or nitrile rubber.

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.

Skin and body protection : Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Protective measures : Plan first aid action before beginning work with this product.
Always have on hand a first-aid kit, together with proper instructions.
Wear suitable protective equipment.
When using do not eat, drink or smoke.

In the context of professional plant protection use as recommended, the end user must refer to the label and the instructions for use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : liquid

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Form	:	liquid
Colour	:	blue
Odour	:	Aromatic, Almond
Odour Threshold	:	No data available
pH	:	3.14 (25 °C) Method: CIPAC MT 75.3 (1% solution in water)
Boiling point/boiling range	:	No data available
Flash point	:	48 °C Method: closed cup
Evaporation rate	:	No data available
Self-ignition	:	310 °C Method: EEC A.15
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	1.06
Density	:	1,060 g/cm ³ (20 °C)
Solubility(ies) Water solubility	:	emulsifiable
Partition coefficient: n-octanol/water	:	Not available for this mixture.
Decomposition temperature	:	No data available
Viscosity Viscosity, dynamic	:	6.4 mPa.s (20 °C) 4 mPa.s (40 °C)

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Viscosity, kinematic	:	No data available
Explosive properties	:	Not explosive Method: Regulation (EC) No. 440/2008, Annex, A.14
Oxidizing properties	:	Non-oxidizing Method: Regulation (EC) No. 440/2008, Annex, A.21
Surface tension	:	42.1 mN/m, 20 °C, Regulation (EC) No. 440/2008, Annex, A.5
Molecular weight	:	Not applicable
Particle size	:	Not applicable

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No decomposition if stored and applied as directed. Heating may cause a fire or explosion.
Chemical stability	:	No decomposition if stored and applied as directed. Follow precautionary advice and avoid incompatible materials and conditions
Possibility of hazardous reactions	:	No decomposition if stored and applied as directed. Vapours may form explosive mixture with air. Hazardous decomposition products formed under fire conditions.
Conditions to avoid	:	Heat, flames and sparks. Temperatures greater than recommended storage temperature. Heating of the product will produce harmful and irritant vapours. Avoid shock and friction.
Incompatible materials	:	Avoid strong acids, bases, and oxidizers

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Harmful if swallowed.

Product:

Acute oral toxicity	:	LD50 (Rat, male and female): > 300 - 500 mg/kg Method: OECD Test Guideline 423
Acute inhalation toxicity	:	LC50 (Rat, male and female): > 2.1 mg/l

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Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity

Components:

dimethoate (ISO):

Acute oral toxicity : LD50 (Rat, male and female): 348 - 423 mg/kg
Method: OECD Test Guideline 425
Symptoms: hypoactivity, Tremors

LD50 (Rat, female): 300 - 2,000 mg/kg
Method: OECD Test Guideline 423
Symptoms: hypoactivity, Tremors
GLP: yes
Assessment: The component/mixture is moderately toxic after single ingestion.

LD50 (Mouse, male and female): 160 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): ca. 1.6 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

LC50 (Rat): 3 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rat, female): > 2,000 mg/kg
Symptoms: Tremors
Assessment: The component/mixture is minimally toxic after single contact with skin.
Remarks: no mortality

LD50 (Rat, male and female): > 2,000 mg/kg
Method: OECD Test Guideline 402
GLP: yes
Assessment: The component/mixture is minimally toxic after single contact with skin.
Remarks: no mortality

cyclohexanone:

Acute oral toxicity : LD50 (Rat): 1,890 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): > 6.2 mg/l

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Exposure time: 4 h
Test atmosphere: vapour
Assessment: The component/mixture is moderately toxic after short term inhalation.

Aromatic hydrocarbons, C9; Alkylbenzenes; C9-aromatics:

Acute oral toxicity : LD50 (Rat, female): 3,492 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): > 6.193 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit, male and female): > 3,160 mg/kg

maleic anhydride:

Acute oral toxicity : LD50 (Rat, male and female): 1,090 mg/kg
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rabbit, female): 2,620 mg/kg

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Product:

Species : Rabbit
Method : OECD Test Guideline 404
Result : Mild skin irritation

Components:

dimethoate (ISO):

Species : Rabbit
Assessment : Not classified as irritant
Method : OECD Test Guideline 404
Result : slight or no skin irritation.
GLP : yes

cyclohexanone:

Species : Rabbit
Method : OECD Test Guideline 404
Result : Skin irritation

Aromatic hydrocarbons, C9; Alkylbenzenes; C9-aromatics:

Species : Rabbit
Method : OECD Test Guideline 404
Result : Mild skin irritation

Assessment : Repeated exposure may cause skin dryness or cracking.

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maleic anhydride:

Species	:	Rabbit
Exposure time	:	4 h
Result	:	Corrosive after 3 minutes to 1 hour of exposure

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Species	:	Rabbit
Result	:	Eye irritation
Method	:	OECD Test Guideline 405

Components:

dimethoate (ISO):

Species	:	Rabbit
Result	:	Mild eye irritation
Assessment	:	Mild eye irritation
Method	:	EPA OPP 81-4

Species	:	Rabbit
Result	:	Eye irritation
Assessment	:	Irritating to eyes.
Method	:	OECD Test Guideline 405
GLP	:	yes

cyclohexanone:

Result	:	Irreversible effects on the eye
Method	:	Hen egg chorioallantoic membrane bioassay

Aromatic hydrocarbons, C9; Alkylbenzenes; C9-aromatics:

Species	:	Rabbit
Result	:	No eye irritation

maleic anhydride:

Species	:	Rabbit
Result	:	Irreversible effects on the eye

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Based on available data, the classification criteria are not met.

Product:

Test Type	:	Local lymph node assay (LLNA)
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Exposure routes	: Skin contact
Species	: Mouse
Method	: OECD Test Guideline 429
Result	: The product is a skin sensitizer, sub-category 1B.

Components:

dimethoate (ISO):

Test Type	: Maximisation Test
Exposure routes	: Dermal
Species	: Guinea pig
Assessment	: Not a skin sensitizer.
Method	: OECD Test Guideline 406
Result	: Does not cause skin sensitisation.
GLP	: yes

Test Type	: Local lymph node test
Assessment	: Not a skin sensitizer.
Method	: OECD Test Guideline 429
Result	: Does not cause skin sensitisation.

Aromatic hydrocarbons, C9; Alkylbenzenes; C9-aromatics:

Test Type	: Maximisation Test
Species	: Guinea pig
Method	: OECD Test Guideline 406

maleic anhydride:

Test Type	: Local lymph node assay (LLNA)
Exposure routes	: Dermal
Species	: Mouse
Assessment	: The product is a skin sensitizer, sub-category 1A.
Method	: OECD Test Guideline 429

Chronic toxicity

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Components:

dimethoate (ISO):

Genotoxicity in vitro	: Test Type: Ames test Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Result: negative
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Genotoxicity in vivo	: Test Type: unscheduled DNA synthesis assay Species: Rat Cell type: Liver cells Result: positive
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Test Type: dominant lethal test

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Species: Mouse
 Method: OECD Test Guideline 478
 Result: negative
 GLP: yes

Test Type: Micronucleus test
 Species: Mouse
 Method: OECD Test Guideline 474
 Result: negative
 GLP: yes

Test Type: chromosome aberration assay
 Species: Rat
 Result: negative

cyclohexanone:

- | | | |
|-------------------------------------|---|---|
| Genotoxicity in vitro | : | Test Type: in vitro DNA damage and/or repair study
Test system: human diploid fibroblasts
Method: OECD Test Guideline 482
Result: negative

Test Type: reverse mutation assay
Method: OECD Test Guideline 471
Result: negative

Test Type: In vitro mammalian cell gene mutation test
Method: OECD Test Guideline 476
Result: negative |
| Genotoxicity in vivo | : | Test Type: chromosome aberration assay
Species: Rat (male and female)
Application Route: inhalation (vapour)
Method: OECD Test Guideline 475
Result: negative

Test Type: dominant lethal test
Species: Rat (male and female)
Application Route: inhalation (vapour)
Method: OECD Test Guideline 478
Result: negative

Species: Drosophila melanogaster (vinegar fly) (male and female)
Application Route: Inhalation
Method: OECD Test Guideline 477
Result: negative |
| Germ cell mutagenicity - Assessment | : | Weight of evidence does not support classification as a germ cell mutagen. |

Aromatic hydrocarbons, C9; Alkylbenzenes; C9-aromatics:

- | | | |
|-----------------------|---|--|
| Genotoxicity in vitro | : | Test Type: reverse mutation assay
Metabolic activation: with and without metabolic activation |
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Result: negative

Genotoxicity in vivo : Test Type: Bone marrow chromosome aberration
Species: Rat
Result: negative

maleic anhydride:

Genotoxicity in vitro : Test Type: reverse mutation assay
Method: OECD Test Guideline 471
Result: negative

Test Type: In vitro mammalian cell gene mutation test
Method: OECD Test Guideline 476
Result: negative
Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Bone marrow chromosome aberration
Species: Rat (male and female)
Application Route: Inhalation
Method: OECD Test Guideline 475
Result: negative

Germ cell mutagenicity - Assessment : Weight of evidence does not support classification as a germ cell mutagen.

Carcinogenicity

Based on available data, the classification criteria are not met.

Components:

cyclohexanone:

Species : Rat
Application Route : Oral
Exposure time : 104 weeks
Dose : (462 and 910 mg/kg/d)
LOAEL : 3,300 ppm
Result : positive

Carcinogenicity - Assessment : Weight of evidence does not support classification as a carcinogen

maleic anhydride:

Species : Rat, male and female
Application Route : Oral
Exposure time : 2 Years
Dose : 0, 10, 32, 100 mg/kg body weight
NOEL : 10 mg/kg body weight
Method : OECD Test Guideline 451
Result : negative

Carcinogenicity - Assessment : Weight of evidence does not support classification as a carcinogen

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Reproductive toxicity

Based on available data, the classification criteria are not met.

Components:

dimethoate (ISO):

- Effects on fertility : Test Type: Two-generation study
Species: Rat
Dose: 1, 15, 65 parts per million
General Toxicity F1: LOAEL: 15 ppm
Symptoms: Effects on mating performance
GLP: yes
- Test Type: Two-generation study
Species: Rat
Dose: 0.2, 1, 6.5 mg/kg bw/day
General Toxicity - Parent: NOAEL: 1 mg/kg body weight
Early Embryonic Development: NOAEL: 6.5 mg/kg body weight
Method: OECD Test Guideline 416
GLP: yes
- Test Type: one-generation reproductive toxicity
Species: Rat
Application Route: Oral
Dose: 6.5 mg/kg bw/day
General Toxicity - Parent: LOAEL: 6.5 mg/kg bw/day
Symptoms: Effects on mating performance
Method: OECD Test Guideline 415
GLP: yes
- cyclohexanone:**
- Effects on fertility : Test Type: Two-generation study
Species: Rat
Application Route: inhalation (vapour)
Dose: 1.02, 2.04, 4.1 mg/l
General Toxicity - Parent: NOAEC: 4.1 mg/l
General Toxicity F1: NOAEC: 2.04 mg/l
General Toxicity F2: NOAEC: 2.04 mg/l
Result: negative
- Effects on foetal development : Species: Rabbit
Application Route: Oral
Dose: 50, 250, 500 mg/kg b.w.
General Toxicity Maternal: NOAEL: 250 mg/kg body weight
Teratogenicity: NOAEL: 500 mg/kg body weight
Method: OECD Test Guideline 414
Result: No teratogenic effects
- Reproductive toxicity - Assessment : Animal testing did not show any effects on fertility.

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Aromatic hydrocarbons, C9; Alkylbenzenes; C9-aromatics:

Effects on fertility : Test Type: Three-generation study
Species: Rat
Application Route: Inhalation
Result: negative

Effects on foetal development : Test Type: Pre-natal
Species: Rat
Application Route: inhalation (vapour)
Method: OECD Test Guideline 414
Result: negative
Remarks: Based on data from similar materials

maleic anhydride:

Effects on fertility : Test Type: Two-generation study
Species: Rat, male and female
Application Route: Oral
Dose: 0, 20, 55, and 150 milligram per kilogram
General Toxicity - Parent: LOAEL: 20 mg/kg body weight
Fertility: NOEL: 55 mg/kg body weight
Method: OECD Test Guideline 416
Result: negative

Effects on foetal development : Species: Rat
Application Route: Oral
Duration of Single Treatment: 15 d
General Toxicity Maternal: NOAEL: \geq 140 mg/kg body weight
Teratogenicity: NOAEL: \geq 140 mg/kg body weight
Embryo-foetal toxicity: NOAEL: \geq 140 mg/kg body weight
Method: OECD Test Guideline 414
Result: negative

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

STOT - single exposure

Based on available data, the classification criteria are not met.

Components:**Aromatic hydrocarbons, C9; Alkylbenzenes; C9-aromatics:**

Assessment : May cause respiratory irritation.
May cause drowsiness or dizziness.

STOT - repeated exposure

Causes damage to organs (Nervous system) through prolonged or repeated exposure.

Components:**dimethoate (ISO):**

Target Organs : Nervous system
Assessment : Causes damage to organs through prolonged or repeated

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exposure.

cyclohexanone:

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

maleic anhydride:

Exposure routes : inhalation (dust/mist/fume)
Target Organs : Respiratory system
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 1.

Repeated dose toxicity

Components:

dimethoate (ISO):

Species : Rat
LOAEL : 2.5 mg/kg bw/day
Exposure time : 90 days
Symptoms : cholinesterase inhibition

Species : Rat
NOAEL : 0.06 - 0.08 mg/kg bw/day
LOAEL : 3.22 - 3.78 mg/kg bw/day
Exposure time : 90d
Symptoms : cholinesterase inhibition

cyclohexanone:

Species : Rat, male and female
NOAEL : 143 mg/kg
Application Route : Oral
Exposure time : 90 d
Dose : 40, 143 and 407 mg/kg b.w.
Method : OECD Test Guideline 408

Aromatic hydrocarbons, C9; Alkylbenzenes; C9-aromatics:

Species : Rat, males
NOAEC : 1.8 mg/l
Application Route : inhalation (vapour)
Exposure time : 12 months
Remarks : Based on data from similar materials

maleic anhydride:

Species : Dog, male and female
NOAEL : 60 mg/kg
Application Route : Oral
Exposure time : 90 d
Dose : 0, 20, 40, or 60 mg/kg bw/day
Method : OECD Test Guideline 409

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Species	: Rat, male and female
NOEL	: 10 mg/kg
Application Route	: Oral
Exposure time	: 2 years
Dose	: 0, 10, 32, and 100 mg/kg bw/day
Method	: OECD Test Guideline 452

Species	: Rat, male and female
LOAEC	: 0.0011 mg/l
Application Route	: Inhalation
Exposure time	: 6 months
Target Organs	: Respiratory system

Aspiration toxicity

Based on available data, the classification criteria are not met.

Components:

dimethoate (ISO):

The substance does not have properties associated with aspiration hazard potential.

Aromatic hydrocarbons, C9; Alkylbenzenes; C9-aromatics:

May be fatal if swallowed and enters airways.

Further information

Product:

Remarks	: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Concentrations substantially above the TLV value may cause narcotic effects. Solvents may degrease the skin.
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Components:

dimethoate (ISO):

Remarks	: Dimethoate is rapidly absorbed and excreted following oral administration. It is extensively metabolised. Dimethoate and its metabolites are primarily found in the liver and kidneys. There is no evidence for accumulation.
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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish	: LC50 (Lepomis macrochirus (Bluegill sunfish)): > 100 mg/l Exposure time: 96 h
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Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 8.9 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : IC50 (*Pseudokirchneriella subcapitata* (green algae)): 246 mg/l
Exposure time: 72 h

Toxicity to terrestrial organisms : LC50 (*Apis mellifera* (bees)): 0.37 µg/bee
Exposure time: 48 h
End point: Acute contact toxicity

LC50 (*Apis mellifera* (bees)): 0.29 µg/bee
Exposure time: 48 h
End point: Acute oral toxicity

Components:

dimethoate (ISO):

Toxicity to fish : NOEC (*Cyprinodon variegatus* (sheepshead minnow)): 2.4 mg/l
Test Type: Early-life Stage
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 0.48 - 0.66 mg/l
Exposure time: 48 h
Test Type: static test

NOEC (*Daphnia magna* (Water flea)): 0.04 mg/l
Exposure time: 21 d

LC50 (*Mysidopsis bahia* (opossum shrimp)): 15 mg/l
Exposure time: 96 h
Test Type: static test
Method: US EPA Test Guideline OPP 72-3
GLP: yes

EC50 (*Daphnia magna* (Water flea)): 1.6 - 2.5 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
GLP: yes

NOEC (*Crassostrea virginica* (atlantic oyster)): 46 mg/l
Exposure time: 96 h

Toxicity to algae/aquatic plants : EC50 (*Selenastrum capricornutum* (green algae)): 117 mg/l
End point: Growth inhibition
Exposure time: 72 h
Method: OECD Test Guideline 201

EC50 (*Pseudokirchneriella subcapitata* (algae)): > 95 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201

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		EC50 (Navicula pelliculosa (Diatom)): > 98 mg/l Exposure time: 72 h Method: US EPA Test Guideline OPPTS 850.5400 GLP: yes
		NOEC (Lemna gibba (duckweed)): 41.5 mg/l Exposure time: 7 d Test Type: Static renewal test Method: OECD Test Guideline 221 GLP: yes
Toxicity to fish (Chronic toxicity)	:	NOEC (Oncorhynchus mykiss (rainbow trout)): 0.4 mg/l Exposure time: 21 d NOEC (Cyprinodon variegatus (sheepshead minnow)): 2.4 mg/l Test Type: Early-life Stage GLP: yes NOEC (Oncorhynchus mykiss (rainbow trout)): 1.25 mg/l Test Type: Early Life-Stage Method: OECD Test Guideline 210 GLP: yes LOEC (Pimephales promelas (fathead minnow)): 96 mg/l Exposure time: 21 d Method: OECD Test Guideline 229 GLP: yes
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC (Daphnia magna (Water flea)): 0.04 mg/l Exposure time: 21 d NOEC (Americamysis bahia (mysid shrimp)): 0.14 mg/l Exposure time: 32 d Test Type: flow-through test GLP: yes
Toxicity to soil dwelling organisms	:	LC50 (Eisenia fetida (earthworms)): 31 mg/kg Exposure time: 14 d Method: OECD Test Guideline 207 GLP: yes NOEC (Eisenia fetida (earthworms)): 2.87 mg/kg Exposure time: 28 d End point: reproduction GLP: yes
Toxicity to terrestrial organisms	:	LD50 (Anas platyrhynchos (Mallard duck)): 44 mg/kg End point: Acute oral toxicity Method: US EPA Test Guideline OPPTS 850.2100 NOEC (Anas platyrhynchos (Mallard duck)): 35.4 ppm

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End point: Reproduction Test
Method: OECD Test Guideline 206
GLP: yes

LD50 (*Colinus virginianus* (Bobwhite quail)): 17.3 mg/kg
End point: Acute oral toxicity
Method: EPA OPP 71-2 (Avian Dietary Toxicity Test)
GLP: yes

NOEC (*Colinus virginianus* (Bobwhite quail)): 10.1 ppm
End point: Reproduction Test
Method: OECD Test Guideline 206
GLP: yes

LD50 (*Apis mellifera* (bees)): 12 µg/bee
End point: Acute contact toxicity
Method: OECD Test Guideline 214
GLP: yes

LD50 (*Apis mellifera* (bees)): 4 µg/bee
End point: Acute oral toxicity
Method: OECD Test Guideline 213
GLP: yes

cyclohexanone:

Toxicity to fish : LC50 (*Pimephales promelas* (fathead minnow)): 527 - 732 mg/l
Exposure time: 96 h
Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): > 100 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : EC50 (*Desmodesmus subspicatus* (green algae)): > 100 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: Based on data from similar materials

NOEC (*Desmodesmus subspicatus* (green algae)): > 100 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: Based on data from similar materials

Toxicity to microorganisms : EC50 (activated sludge): > 1,000 mg/l
Exposure time: 30 min
Method: OECD Test Guideline 209

Aromatic hydrocarbons, C9; Alkylbenzenes; C9-aromatics:

Toxicity to fish : LL50 (*Oncorhynchus mykiss* (rainbow trout)): 9.2 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

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Remarks: water accommodated fractions (WAF)

Toxicity to daphnia and other aquatic invertebrates : EL50 (*Daphnia magna* (Water flea)): 3.2 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : NOELR (*Pseudokirchneriella subcapitata* (green algae)): 0.22 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

EL50 (*Pseudokirchneriella subcapitata* (green algae)): 7.9 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 (activated sludge): > 99 mg/l
Exposure time: 10 min
Method: OECD Test Guideline 209

Ecotoxicology Assessment

Acute aquatic toxicity : Toxic to aquatic life.

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

maleic anhydride:

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 42.81 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : EC10 (*Pseudokirchneriella subcapitata* (green algae)): 11.8 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: Based on data from similar materials

EC50 (*Pseudokirchneriella subcapitata* (green algae)): 74.35 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (*Daphnia magna* (Water flea)): 10 mg/l
Exposure time: 21 d

Toxicity to microorganisms : EC10 (*Pseudomonas putida*): 44.6 mg/l
Exposure time: 18 h
Method: DIN 38 412 Part 8

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Persistence and degradability

Components:

dimethoate (ISO):

Biodegradability : Result: Not readily biodegradable.

cyclohexanone:

Biodegradability : Result: Readily biodegradable.
Method: OECD Test Guideline 301F

Aromatic hydrocarbons, C9; Alkylbenzenes; C9-aromatics:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 78 %
Exposure time: 28 d
Method: OECD Test Guideline 301F

maleic anhydride:

Biodegradability : Inoculum: activated sludge, non-adapted
Result: Readily biodegradable.
Biodegradation: > 90 %
Exposure time: 25 d
Method: OECD Test Guideline 301B
Remarks: Based on data from similar materials

Bioaccumulative potential

Components:

dimethoate (ISO):

Bioaccumulation : Species: *Salmo gairdneri*
Bioconcentration factor (BCF): > 1,000
Remarks: The product/substance has a potential to bioaccumulate.
See section 9 for octanol-water partition coefficient.

Partition coefficient: n-octanol/water : Pow: 5.7 (20 °C)
log Pow: 0.75 (20 °C)
Method: OECD Test Guideline 107

cyclohexanone:

Partition coefficient: n-octanol/water : log Pow: 0.86 (25 °C)

Aromatic hydrocarbons, C9; Alkylbenzenes; C9-aromatics:

Partition coefficient: n-octanol/water : log Pow: 2.92 - 3.59
Method: QSAR

maleic anhydride:

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Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: -2.61

Mobility in soil

Components:

dimethoate (ISO):

Distribution among environmental compartments : Remarks: Highly mobile in soils

Stability in soil : Remarks: Not expected to adsorb on soil.

Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life.
Very toxic to aquatic life with long lasting effects.

Components:

dimethoate (ISO):

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dimethoate is rapidly hydrolysed at pH > 8.0
The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.
It is recommended to consider possible ways of disposal in the following order:
1. Reuse or recycling should first be considered. If offered for recycling, containers must be emptied and triply rinsed (or equivalent). Do not discharge rinsing water to sewer systems.
2. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

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3. Delivery of the packaging to a licensed service for disposal of hazardous waste.
4. Disposal in a landfill or burning in open air should only occur as a last resort. For disposal in a landfill, containers should be emptied completely, rinsed and punctured to make them unusable for other purposes. If burned, stay out of smoke.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number	: UN 1993
Proper shipping name	: FLAMMABLE LIQUID, N.O.S. (Cyclohexanone, Solvent naphtha (petroleum), light aromatic, Dimethoate)
Class	: 3
Packing group	: III
Labels	: 3
Environmentally hazardous	: yes

IATA-DGR

UN/ID No.	: UN 1993
Proper shipping name	: Flammable liquid, n.o.s. (Cyclohexanone, Solvent naphtha (petroleum), light aromatic, Dimethoate)
Class	: 3
Packing group	: III
Labels	: Flammable Liquids
Packing instruction (cargo aircraft)	: 366
Packing instruction (passenger aircraft)	: 355
Environmentally hazardous	: yes

IMDG-Code

UN number	: UN 1993
Proper shipping name	: FLAMMABLE LIQUID, N.O.S. (Cyclohexanone, Solvent naphtha (petroleum), light aromatic, Dimethoate)
Class	: 3
Packing group	: III
Labels	: 3
EmS Code	: F-E, S-E
Marine pollutant	: yes

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

ADG

UN number	: UN 1993
Proper shipping name	: FLAMMABLE LIQUID, N.O.S.

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(Cyclohexanone, Solvent naphtha (petroleum), light aromatic, Dimethoate)

Class	:	3
Packing group	:	III
Labels	:	3
Hazchem Code	:	•3Y
Environmentally hazardous	:	yes

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Therapeutic Goods (Poisons : Schedule 6
Standard) Instrument

APVMA No.: 56454

Prohibition/Licensing Requirements	:	There is no applicable prohibition, authorisation and restricted use requirements, including for carcinogens referred to in Schedule 10 of the model WHS Act and Regulations.
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The components of this product are reported in the following inventories:

TCSI	:	Not in compliance with the inventory
TSCA	:	Product contains substance(s) not listed on TSCA inventory.
AIIC	:	Not in compliance with the inventory
DSL	:	This product contains chemical substance(s) exempt from CEPA DSL Inventory requirements. It is regulated as a pesticide subject to Pest Control Products Act (PCPA) requirements. Read the PCPA label, authorized under the Pest Control Products Act, prior to using or handling this pest control product.
ENCS	:	Not in compliance with the inventory
ISHL	:	Not in compliance with the inventory
KECI	:	Not in compliance with the inventory
PICCS	:	Not in compliance with the inventory
IECSC	:	Not in compliance with the inventory

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NZIoC : Not in compliance with the inventory

TECI : Not in compliance with the inventory

SECTION 16: ANY OTHER RELEVANT INFORMATION

Revision Date : 01.08.2025

Date format : dd.mm.yyyy

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

ACGIH BEI : ACGIH - Biological Exposure Indices (BEI)

AU OEL : Australia. Workplace Exposure Standards for Airborne Contaminants.

ACGIH / TWA : 8-hour, time-weighted average

ACGIH / STEL : Short-term exposure limit

AU OEL / TWA : Exposure standard - time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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