

SAFETY DATA SHEET



Danadim Insecticide

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	17.09.2021	50000650	Date of first issue: 17.09.2021

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Danadim Insecticide

Other means of identification : DANADIM
ROKAR 40
DIMERAN
DIMETHOATE 400 G/L EC (BLUE) (STABILIZED)
DIMISTAR
DIMISTAR PROGRESS
PERFEKTION TOP
ROGOR L40
RUBITOX
SYSTOGOR
NTEKOR
AMCODIM
CHIMIGOR
DANADIM PROGRESS
RODACUS
ARAGOL L40

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, Level 2, 12 Julius Avenue,
North Ryde NSW 2113

Telephone : +6161029887900

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

SAFETY DATA SHEET



Danadim Insecticide

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	17.09.2021	50000650	Date of first issue: 17.09.2021

Acute toxicity (Oral) : Category 4

Acute toxicity (Inhalation) : Category 4

Serious eye damage/eye irritation : Category 2A

Skin sensitisation : Sub-category 1B

GHS label elements

Hazard pictograms :

Signal word : Warning

Hazard statements : H226 Flammable liquid and vapour.
H302 + H332 Harmful if swallowed or if inhaled.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.

Precautionary statements :

Prevention:

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

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

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

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

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

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

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/ eye protection/ face protection.

Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.

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

P304 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P337 + P313 If eye irritation persists: Get medical advice/ at-

SAFETY DATA SHEET



Danadim Insecticide

Version 1.0 Revision Date: 17.09.2021 SDS Number: 50000650 Date of last issue: -
Date of first issue: 17.09.2021

tention.
P363 Wash contaminated clothing before reuse.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage:

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

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)
cyclohexanone	108-94-1	>= 30 -< 60
dimethoate (ISO)	60-51-5	>= 30 -< 60
Solvent naphtha (petroleum), light arom.	64742-95-6	< 10
maleic anhydride	108-31-6	< 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 : Call a physician or poison control centre immediately.
If unconscious, place in recovery position and seek medical advice.
- In case of skin contact : If skin irritation persists, call a physician.
If on skin, rinse well with water.
If on clothes, remove clothes.
- 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.
- Most important symptoms : Harmful if swallowed or if inhaled.

SAFETY DATA SHEET



Danadim Insecticide

Version 1.0	Revision Date: 17.09.2021	SDS Number: 50000650	Date of last issue: - Date of first issue: 17.09.2021
----------------	------------------------------	-------------------------	--

and effects, both acute and delayed : May cause an allergic skin reaction.
Causes serious eye irritation.

Notes to physician : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry chemical

Unsuitable extinguishing media : High volume water jet

Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Thermal decomposition can lead to release of irritating gases and vapours.
Oxides of phosphorus
Nitrogen oxides (NO_x)
Carbon oxides
Sulphur oxides

Specific extinguishing methods : 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.
Use a water spray to cool fully closed containers.

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Hazchem Code : •3Y

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
Ensure adequate ventilation.
Remove all sources of ignition.
Evacuate personnel to safe areas.
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

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

Methods and materials for containment and cleaning up : Neutralize with chalk, alkali solution or ammonia.
Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, ver-

SAFETY DATA SHEET



Danadim Insecticide

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	17.09.2021	50000650	Date of first issue: 17.09.2021

miculite) and place in container for disposal according to local / national regulations (see section 13).

SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : 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.
- Hygiene measures : When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.
- 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.
- Materials to avoid : Do not store near acids.
- Recommended storage temperature : 25 °C
- Further information on storage stability : No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type	Control parame-	Basis
------------	---------	------------	-----------------	-------

SAFETY DATA SHEET



Danadim Insecticide

Version 1.0 Revision Date: 17.09.2021 SDS Number: 50000650 Date of last issue: -
Date of first issue: 17.09.2021

		(Form of exposure)	ters / Permissible concentration	
cyclohexanone	108-94-1	TWA	25 ppm 100 mg/m3	AU OEL
Further information: Skin absorption				
		TWA	20 ppm	ACGIH
		STEL	50 ppm	ACGIH
Solvent naphtha (petroleum), light arom.	64742-95-6	TWA	900 mg/m3	AU OEL
		TWA	200 mg/m3 (total hydrocarbon vapor)	ACGIH
maleic anhydride	108-31-6	TWA	0.25 ppm 1 mg/m3	AU OEL
Further information: Sensitiser				
		TWA (Inhalable fraction and vapor)	0.01 mg/m3	ACGIH

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sam-pling time	Permissible concentra-tion	Basis
cyclohexanone	108-94-1	1,2-Cyclohex- anediol	Urine	End of shift at end of work- week	80 mg/l	ACGIH BEI
		Cyclohexa- nol	Urine	End of shift (As soon as possible after exposure ceases)	8 mg/l	ACGIH BEI
dimethoate (ISO)	60-51-5	Acetylcho- linesterase activity	In red blood cells	End of shift	70 % of an individual's baseline	ACGIH BEI
		Butyrylcho- linesterase 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

SAFETY DATA SHEET



Danadim Insecticide

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	17.09.2021	50000650	Date of first issue: 17.09.2021

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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Colour	: blue
Odour	: aromatic
pH	: 3.14 (25 °C)
Flash point	: 48 °C
	Method: closed cup
Flammability (liquids)	: Sustains combustion
Self-ignition	: 310 °C
Density	: 1,060 g/l
Solubility(ies)	
Water solubility	: emulsifiable
Viscosity	
Viscosity, dynamic	: 6.4 mPa.s (20 °C)
	4 mPa.s (40 °C)
Explosive properties	: Not explosive
Oxidizing properties	: Non-oxidizing
Surface tension	: 42.1 mN/m, 20 °C

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No decomposition if stored and applied as directed.
Chemical stability	: No decomposition if stored and applied as directed.
Possibility of hazardous reac-	: No decomposition if stored and applied as directed.

SAFETY DATA SHEET



Danadim Insecticide

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	17.09.2021	50000650	Date of first issue: 17.09.2021

tions	Vapours may form explosive mixture with air.
Conditions to avoid	: Heat, flames and sparks. Temperatures greater than recommended storage temperature.
Incompatible materials	: Strong oxidizing agents Strong bases Strong acids
Hazardous decomposition products	: Stable under recommended storage conditions.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Harmful if swallowed or if inhaled.

Product:

Acute oral toxicity	: LD50 (Rat): 550 mg/kg Method: OECD Test Guideline 425
Acute inhalation toxicity	: LC50 (Rat): ca. 3 mg/l Exposure time: 4 h Test atmosphere: dust/mist
Acute dermal toxicity	: LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402

Components:

cyclohexanone:

Acute oral toxicity	: LD50 (Rat): 1,890 mg/kg
Acute inhalation toxicity	: LC50 (Rat, male and female): > 6.2 mg/l Exposure time: 4 h Test atmosphere: vapour Assessment: The component/mixture is moderately toxic after short term inhalation.

dimethoate (ISO):

Acute oral toxicity	: LD50 (Rat): 387 mg/kg Method: OECD Test Guideline 425
Acute inhalation toxicity	: LC50 (Rat): ca. 1.6 mg/l Exposure time: 4 h Test atmosphere: dust/mist
Acute dermal toxicity	: LD50 (Rat): > 2,000 mg/kg

Solvent naphtha (petroleum), light arom.:

Acute oral toxicity	: LD50 (Rat, female): 3,492 mg/kg Method: OECD Test Guideline 401
---------------------	--

SAFETY DATA SHEET



Danadim Insecticide

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	17.09.2021	50000650	Date of first issue: 17.09.2021

LD50 (Rat, male): 6,984 mg/kg
Method: OECD Test Guideline 401

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
Remarks: no mortality

Acute dermal toxicity : LD50 (Rabbit, male and female): > 3,160 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity

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

Not classified based on available information.

Product:

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation

Remarks : May cause skin irritation and/or dermatitis.

Components:

cyclohexanone:

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

Remarks : Extremely corrosive and destructive to tissue.

dimethoate (ISO):

Method : FIFRA 81.05
Result : slight irritation

Solvent naphtha (petroleum), light arom.:

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

maleic anhydride:

Species : Rabbit

SAFETY DATA SHEET



Danadim Insecticide

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	17.09.2021	50000650	Date of first issue: 17.09.2021

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 : Irritation to eyes, reversing within 21 days
Method : OECD Test Guideline 405

Remarks : May cause irreversible eye damage.

Components:

cyclohexanone:

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

Remarks : May cause irreversible eye damage.

dimethoate (ISO):

Species : Rabbit
Result : slight irritation

Solvent naphtha (petroleum), light arom.:

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

Not classified based on available information.

Product:

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

Remarks : Causes sensitisation.

Danadim Insecticide

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	17.09.2021	50000650	Date of first issue: 17.09.2021

Components:**dimethoate (ISO):**

Method	:	OECD Test Guideline 429
Result	:	Does not cause skin sensitisation.

Solvent naphtha (petroleum), light arom.:

Test Type	:	Maximisation Test
Exposure routes	:	Skin contact
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	Not a skin sensitizer.

maleic anhydride:

Test Type	:	Local lymph node assay (LLNA)
Exposure routes	:	Dermal
Species	:	Mouse
Method	:	OECD Test Guideline 429
Result	:	May cause sensitisation by skin contact.
	:	Inhalation
	:	Rat
	:	May cause sensitisation by inhalation.

Chronic toxicity**Germ cell mutagenicity**

Not classified based on available information.

Components:**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)

Danadim Insecticide

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	17.09.2021	50000650	Date of first issue: 17.09.2021

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.

dimethoate (ISO):

Genotoxicity in vivo : Method: OECD Test Guideline 478
Result: negative

Solvent naphtha (petroleum), light arom.:

Genotoxicity in vitro : Test Type: in vitro DNA damage and/or repair study
Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Result: negative

Test Type: reverse mutation assay
Metabolic activation: with and without metabolic activation
Result: negative

Genotoxicity in vivo : Test Type: Bone marrow chromosome aberration
Species: Rat (male and female)
Application Route: Inhalation
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.

Danadim Insecticide

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	17.09.2021	50000650	Date of first issue: 17.09.2021

Carcinogenicity

Not classified based on available information.

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
------------------------------	--

dimethoate (ISO):

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
------------------------------	--

Reproductive toxicity

Not classified based on available information.

Components:**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
-------------------------------	---

SAFETY DATA SHEET



Danadim Insecticide

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	17.09.2021	50000650	Date of first issue: 17.09.2021

Result: No teratogenic effects

Reproductive toxicity - Assessment : Animal testing did not show any effects on fertility.

dimethoate (ISO):

Reproductive toxicity - Assessment : Animal testing showed no reproductive toxicity.

Solvent naphtha (petroleum), light arom.:

Effects on fertility : Test Type: Three-generation study
Species: Rat
Application Route: inhalation (vapour)
Fertility: NOAEC Mating/Fertility: 7.5 mg/l
Result: negative
Remarks: Based on data from similar materials

Effects on foetal development : Species: Mouse
Application Route: inhalation (vapour)
General Toxicity Maternal: LOAEC: 500 part per million
Symptoms: Maternal effects

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: ≥ 140 mg/kg body weight
Teratogenicity: NOAEL: ≥ 140 mg/kg body weight
Embryo-foetal toxicity: NOAEL: ≥ 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

Not classified based on available information.

Components:

dimethoate (ISO):

Remarks : No significant adverse effects were reported

SAFETY DATA SHEET



Danadim Insecticide

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	17.09.2021	50000650	Date of first issue: 17.09.2021

Solvent naphtha (petroleum), light arom.:

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

STOT - repeated exposure

Not classified based on available information.

Components:

cyclohexanone:

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

Solvent naphtha (petroleum), light arom.:

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:

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

dimethoate (ISO):

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

Solvent naphtha (petroleum), light arom.:

Species : Rat, male and female
: 0.8 - 0.9 mg/l
Application Route : Inhalation
Test atmosphere : vapour
Remarks : Based on data from similar materials

Species : Rat, male
NOAEL : 600 mg/kg
Application Route : Oral

SAFETY DATA SHEET



Danadim Insecticide

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	17.09.2021	50000650	Date of first issue: 17.09.2021

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

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
Method : OECD Test Guideline 452

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

Aspiration toxicity

Not classified based on available information.

Components:

dimethoate (ISO):

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

Solvent naphtha (petroleum), light arom.:

May be fatal if swallowed and enters airways.

Further information

Product:

Remarks : Solvents may degrease the skin.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): > 100 mg/l
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 8.9 mg/l
aquatic invertebrates Exposure time: 48 h

Toxicity to algae/aquatic : IC50 (Pseudokirchneriella subcapitata (green algae)): 246

SAFETY DATA SHEET



Danadim Insecticide

Version 1.0	Revision Date: 17.09.2021	SDS Number: 50000650	Date of last issue: - Date of first issue: 17.09.2021
----------------	------------------------------	-------------------------	--

plants
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:

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

dimethoate (ISO):

Toxicity to fish : LC50 (*Salmo gairdneri*): 30.2 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 2 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : IC50 (*Selenastrum capricornutum* (green algae)): 90.4 mg/l
Exposure time: 72 h

Toxicity to fish (Chronic toxicity) : NOEC (*Salmo gairdneri*): 0.4 mg/l
Exposure time: 21 d

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (*Daphnia magna* (Water flea)): 0.04 mg/l
Exposure time: 21 d

SAFETY DATA SHEET



Danadim Insecticide

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	17.09.2021	50000650	Date of first issue: 17.09.2021

Toxicity to soil dwelling organisms : LC50 (*Eisenia fetida* (earthworms)): 31 mg/kg dry weight (d.w.)
Exposure time: 14 d

Toxicity to terrestrial organisms : LD50 (*Anas platyrhynchos* (Mallard duck)): 42 mg/kg

LD50 (*Colinus virginianus* (Bobwhite quail)): 10.5 mg/kg

LD50 (*Coturnix japonica* (Japanese quail)): 84 mg/kg

LD50 (*Phasianus colchicus* (ring-necked pheasant)): 14.1 mg/kg

LD50 (*Apis mellifera* (bees)): 0.12 µg/bee
Remarks: Contact

LD50 (*Apis mellifera* (bees)): 0.15 µg/bee
Remarks: Oral

Solvent naphtha (petroleum), light arom.:

Toxicity to fish : NOEC (*Oncorhynchus mykiss* (rainbow trout)): 4.5 mg/l
Exposure time: 96 h
Test Type: semi-static test
Method: OECD Test Guideline 203
Remarks: Based on data from similar materials

LL50 (*Pimephales promelas* (fathead minnow)): 8.2 mg/l
Exposure time: 96 h
Test Type: semi-static test
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EL50 (*Daphnia magna* (Water flea)): 4.5 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : EL50 (*Pseudokirchneriella subcapitata* (microalgae)): 3.1 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
Remarks: Based on data from similar materials

Toxicity to fish (Chronic toxicity) : NOELR (*Pimephales promelas* (fathead minnow)): 2.6 mg/l
Exposure time: 14 d
Method: OECD Test Guideline 204
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOELR (*Daphnia magna* (Water flea)): 2.6 mg/l
Exposure time: 21 d
Method: OECD Test Guideline 211

SAFETY DATA SHEET



Danadim Insecticide

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	17.09.2021	50000650	Date of first issue: 17.09.2021

Toxicity to microorganisms : EC50 (Tetrahymena pyriformis): 15.41 mg/l
Exposure time: 40 h
Test Type: Growth inhibition
Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.

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

Persistence and degradability

Components:

cyclohexanone:

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

dimethoate (ISO):

Biodegradability : Result: Not rapidly biodegradable

Solvent naphtha (petroleum), light arom.:

Biodegradability : Concentration: 49.2 mg/l
Result: Inherently biodegradable.
Biodegradation: 77.05 %
Exposure time: 28 d
Method: OECD Test Guideline 301F

maleic anhydride:

SAFETY DATA SHEET



Danadim Insecticide

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	17.09.2021	50000650	Date of first issue: 17.09.2021

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:

cyclohexanone:

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

dimethoate (ISO):

Bioaccumulation : Species: Salmo gairdneri
Bioconcentration factor (BCF): > 1,000
Remarks: Does not bioaccumulate.
See section 9 for octanol-water partition coefficient.

Partition coefficient: n-octanol/water : log Pow: 0.704

maleic anhydride:

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

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:

cyclohexanone:

Additional ecological information : No data available

SAFETY DATA SHEET



Danadim Insecticide

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	17.09.2021	50000650	Date of first issue: 17.09.2021

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

- Waste from residues : 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.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

- UN number : UN 1993
Proper shipping name : FLAMMABLE LIQUID, N.O.S.
(Cyclohexanone, Naptha Aromatic, Dimethoate)
- Class : 3
Packing group : III
Labels : 3

IATA-DGR

- UN/ID No. : UN 1993
Proper shipping name : Flammable liquid, n.o.s.
(Cyclohexanone, Naptha 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, Naptha 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

SAFETY DATA SHEET



Danadim Insecticide

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	17.09.2021	50000650	Date of first issue: 17.09.2021

UN number	:	UN 1993
Proper shipping name	:	FLAMMABLE LIQUID, N.O.S. (Cyclohexanone, Naptha Aromatic, Dimethoate)
Class	:	3
Packing group	:	III
Labels	:	3
Hazchem Code	:	•3Y

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

Standard for the Uniform Scheduling of Medicines and Poisons	:	Schedule 6
--	---	------------

APVMA Approval 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.
------------------------------------	---	---

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 the following components that are not on the Canadian DSL nor NDSL. alkoxylated short fatty alcohol Alkoxylated surfactant O,O-DIMETHYL S-METHYLCARBAMOYLMETHYL PHOSPHORODITHIOATE
ENCS	:	Not in compliance with the inventory
ISHL	:	Not in compliance with the inventory
KECI	:	Not in compliance with the inventory

SAFETY DATA SHEET



Danadim Insecticide

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	17.09.2021	50000650	Date of first issue: 17.09.2021

PICCS	:	Not in compliance with the inventory
IECSC	:	Not in compliance with the inventory
NZIoC	:	Not in compliance with the inventory

SECTION 16. OTHER INFORMATION

Revision Date : 17.09.2021

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; 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

SAFETY DATA SHEET



Danadim Insecticide

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	17.09.2021	50000650	Date of first issue: 17.09.2021

Disclaimer

FMC Corporation believes that the information and recommendations contained herein (including data and statements) are accurate as of the date hereof. You can contact FMC Corporation to ensure that this document is the most current available from FMC Corporation. No warranty of fitness for any particular purpose, warranty of merchantability or any other warranty, expressed or implied, is made concerning the information provided herein. The information provided herein relates only to the specified product designated and may not be applicable where such product is used in combination with any other materials or in any process. The user is responsible for determining whether the product is fit for a particular purpose and suitable for the user's conditions and methods of use. Since the conditions and methods of use are beyond the control of FMC Corporation, FMC Corporation expressly disclaims any and all liability as to any results obtained or arising from any use of the products or reliance on such information.

AU / 6N