

SAFETY DATA SHEET



Danadim Insecticide

Version 1.0 Revision Date: 30.09.2021 SDS Number: 50001279 Date of last issue: -
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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Danadim Insecticide

Other means of identification : DIMETHOATE 400 EC (BLUE) (STABILIZED)
ROGOR PLUS
DANADIM PROGRESS
DANADIM
ROGOR L40
DIMISTAR P
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, 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 (Ixom)

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

Acute toxicity (Inhalation) : Category 4

Serious eye damage/eye irritation : Category 2A

Skin sensitisation : Category 1

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Aspiration hazard : Category 1

GHS label elements

Hazard pictograms : 

Signal word : Danger

Hazard statements : H226 Flammable liquid and vapour.
H302 + H332 Harmful if swallowed or if inhaled.
H304 May be fatal if swallowed and enters airways.
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 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
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.
P331 Do NOT induce vomiting.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P363 Wash contaminated clothing before reuse.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

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Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.

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
xylene	1330-20-7	< 10
ethylbenzene	100-41-4	< 10
maleic anhydride	108-31-6	< 1
toluene	108-88-3	< 3

SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Symptoms of poisoning may appear several hours later.
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 induce vomiting.
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.
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Most important symptoms and effects, both acute and delayed : Harmful if swallowed or if inhaled.
May be fatal if swallowed and enters airways.
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 : Contain spillage, and then collect with non-combustible ab-

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containment and cleaning up sorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) 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.
- 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 (Form of	Control parameters / Permissible	Basis
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		exposure)	concentration	
cyclohexanone	108-94-1	TWA	25 ppm 100 mg/m ³	AU OEL
	Further information: Skin absorption			
		TWA	20 ppm	ACGIH
		STEL	50 ppm	ACGIH
xylene	1330-20-7	STEL	150 ppm 655 mg/m ³	AU OEL
		TWA	80 ppm 350 mg/m ³	AU OEL
		TWA	100 ppm	ACGIH
		STEL	150 ppm	ACGIH
ethylbenzene	100-41-4	TWA	100 ppm 434 mg/m ³	AU OEL
		STEL	125 ppm 543 mg/m ³	AU OEL
		TWA	20 ppm	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
toluene	108-88-3	TWA	50 ppm 191 mg/m ³	AU OEL
	Further information: Skin absorption			
		STEL	150 ppm 574 mg/m ³	AU OEL
	Further information: Skin absorption			
		TWA	20 ppm	ACGIH

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
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
xylene	1330-20-7	Methylhip-	Urine	End of	1.5 g/g cre-	ACGIH

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		puric acids		shift (As soon as possible after exposure ceases)	atinine	BEI
ethylbenzene	100-41-4	Sum of mandelic acid and phenyl glyoxylic acid	Urine	End of shift (As soon as possible after exposure ceases)	0.15 g/g creatinine	ACGIH BEI
toluene	108-88-3	Toluene	In blood	Prior to last shift of work-week	0.02 mg/l	ACGIH BEI
		Toluene	Urine	End of shift (As soon as possible after exposure ceases)	0.03 mg/l	ACGIH BEI
		o-Cresol	Urine	End of shift (As soon as possible after exposure ceases)	0.3 mg/g Creatinine	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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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Appearance : liquid

Colour : light yellow

Odour : acetone-like

Odour Threshold : not determined

pH : 4.3 - 6.6
(1% solution in water)

Melting point/freezing point : < 10 °C

Boiling point/boiling range : not determined

Flash point : 39 °C

Flammability (solid, gas) : No data available

Density : 1.044 g/cm³

Solubility(ies)
Water solubility : emulsifiable

Explosive properties : Not explosive

Oxidizing properties : Non-oxidizing

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 reactions : No decomposition if stored and applied as directed.

Conditions to avoid : Heat, flames and sparks.
Temperatures greater than recommended storage temperature.

Incompatible materials : Strong oxidizing agents

Strong acids

Strong bases

Hazardous decomposition products : Stable under recommended storage conditions.

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SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Harmful if swallowed or if inhaled.

Product:

Acute oral toxicity : LD50 (Rat): > 300 - 500 mg/kg
 Method: OECD Test Guideline 423
 Remarks: Based on data from similar materials

Acute inhalation toxicity : LC50 (Rat): ca. 3 mg/l
 Exposure time: 4 h
 Test atmosphere: dust/mist
 Method: FIFRA 81.03
 Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg
 Method: OECD Test Guideline 402
 Remarks: Based on data from similar materials

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

xylene:

Acute oral toxicity : LD50 (Rat, male): 3,523 mg/kg
 Method: Regulation (EC) No. 440/2008, Annex, B.1 bis

LD50 (Rat, female): > 4,000 mg/kg
 Method: Regulation (EC) No. 440/2008, Annex, B.1 bis

Acute inhalation toxicity : LC50 (Rat, male and female): 27.6 mg/l, 6350 ppm
 Exposure time: 4 h
 Test atmosphere: vapour
 Method: Regulation (EC) No. 440/2008, Annex, B.2

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Acute dermal toxicity : LD50 (Rabbit, male): > 4,200 mg/kg

ethylbenzene:

Acute oral toxicity : LD50 Oral (Rat, male and female): 3,500 mg/kg

Acute inhalation toxicity : LC0 (Rat): > 2180 ppm
Exposure time: 4 h
Test atmosphere: vapour

Acute dermal toxicity : LD50 Dermal (Rabbit, male): 15,400 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

toluene:

Acute oral toxicity : LD50 (Rat): 5,580 mg/kg

Acute inhalation toxicity : LC50 (Rat, male): 25.7 mg/l
Exposure time: 4 h
Test atmosphere: vapour

LC50 (Rat, female): 30 mg/l
Exposure time: 4 h
Test atmosphere: vapour

Acute dermal toxicity : (Rabbit): 12,267 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Product:

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation
Remarks : Based on data from similar materials

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.

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dimethoate (ISO):

Method : FIFRA 81.05
Result : slight irritation

xylene:

Species : Rabbit
Result : Skin irritation
Remarks : Based on data from similar materials

ethylbenzene:

Species : Rabbit
Remarks : Moderate skin irritation

maleic anhydride:

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

toluene:

Species : Rabbit
Assessment : Repeated exposure may cause skin dryness or cracking.
Result : Skin irritation

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 : Based on data from similar materials

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

xylene:

Species : Rabbit
Result : Moderate eye irritation

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ethylbenzene:

Species : Rabbit
Result : No eye irritation

maleic anhydride:

Species : Rabbit
Result : Irreversible effects on the eye

toluene:

Species : Rabbit
Result : No eye irritation

Respiratory or skin sensitisation**Skin sensitisation**

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Product:

Method : OECD Test Guideline 406
Result : May cause sensitisation by skin contact.
Remarks : Based on data from similar materials

Remarks : Causes sensitisation.

Components:**dimethoate (ISO):**

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

xylene:

Test Type : Local lymph node assay (LLNA)
Exposure routes : Skin contact
Species : Mouse
Method : OECD Test Guideline 429
Result : Does not cause skin sensitisation.

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.

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toluene:

Test Type : Maximisation Test
 Species : Guinea pig
 Result : Not a skin sensitizer.

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)
 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

xylene:

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Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro
Test system: Chinese hamster ovary cells
Method: Regulation (EC) No. 440/2008, Annex, B.10
Result: negative

Test Type: sister chromatid exchange assay
Test system: Chinese hamster ovary cells
Result: negative

Genotoxicity in vivo : Test Type: Rodent Dominant Lethal Assay
Species: Mouse (male)
Application Route: Intraperitoneal injection
Method: OECD Test Guideline 478
Result: negative

ethylbenzene:

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test
Result: negative

Genotoxicity in vivo : Test Type: In vivo micronucleus test
Species: Mouse
Method: OECD Test Guideline 474
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.

toluene:

Genotoxicity in vitro : Test Type: Ames test
Result: negative

Method: OECD Test Guideline 476
Result: negative

Genotoxicity in vivo : Test Type: Chromosome aberration test in vitro
Species: Rat
Result: negative

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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

xylene:

Species : Rat
Application Route : Oral
Exposure time : 103 weeks
Result : negative

ethylbenzene:

Species : Mouse, male and female
Application Route : Inhalation
Exposure time : 104 weeks
Result : positive

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:**

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- 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.
- dimethoate (ISO):**
Reproductive toxicity - Assessment : Animal testing showed no reproductive toxicity.
- xylene:**
Effects on fertility : Test Type: Two-generation study
Species: Rat
Application Route: inhalation (vapour)
General Toxicity F1: NOAEC: 2.171 mg/l
Result: negative
Remarks: Based on data from similar materials
- Effects on foetal development : Test Type: Pre-natal
Species: Rat
Application Route: inhalation (vapour)
Symptoms: Maternal effects
Result: negative
Remarks: Based on data from similar materials
- ethylbenzene:**
Effects on fertility : Species: Rat, male and female
Application Route: Inhalation
Method: OECD Test Guideline 415
Result: negative
- Effects on foetal development : Test Type: Embryo-foetal development
Species: Rat, female
Application Route: Inhalation
Method: OECD Test Guideline 414
Result: negative

maleic anhydride:

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- 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
- toluene:**
- Effects on foetal development : Species: Rat
Application Route: Inhalation
Result: Teratogenic effects
Remarks: Adverse developmental effects were observed
- Reproductive toxicity - Assessment : Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments.

STOT - single exposure

Not classified based on available information.

Components:

dimethoate (ISO):

Remarks : No significant adverse effects were reported

xylene:

Assessment : May cause respiratory irritation.

toluene:

Assessment : 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

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organ toxicant, repeated exposure.

xylene:

Exposure routes : Inhalation
Target Organs : hearing organs
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

ethylbenzene:

Exposure routes : Inhalation
Target Organs : hearing organs
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

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.

toluene:

Exposure routes : Inhalation
Target Organs : inner ear
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

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

xylene:

Species : Rat
: 3.515 mg/l
Application Route : Inhalation
Exposure time : 13 weeks

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ethylbenzene:

Species : Rat, male and female
NOAEL : 75 mg/kg
Application Route : Oral
Exposure time : 28 days
Method : OECD Test Guideline 407

Species : Rat, male and female
NOAEL : 250 ppm
LOAEL : 75 ppm
Application Route : inhalation (vapour)
Exposure time : 728 days
Method : OECD Test Guideline 453

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

toluene:

Species : Rat
NOAEL : 625 mg/kg
Application Route : Oral
Symptoms : central nervous system effects

Species : Rat
NOAEL : 0.098 mg/l
Application Route : Inhalation
Test atmosphere : vapour

Species : Rat
LOAEL : 2.261 mg/l
Application Route : Inhalation
Test atmosphere : vapour

Aspiration toxicity

May be fatal if swallowed and enters airways.

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Components:

dimethoate (ISO):

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

xylene:

May be fatal if swallowed and enters airways.

ethylbenzene:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

toluene:

May be fatal if swallowed and enters airways.

Experience with human exposure

Components:

xylene:

General Information : Target Organs: inner ear
Symptoms: hearing loss

Target Organs: Central nervous system
Symptoms: Drowsiness, Dizziness

ethylbenzene:

General Information : Target Organs: inner ear
Symptoms: hearing loss

Further information

Product:

Remarks : Solvents may degrease the skin.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

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

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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

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

xylene:

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- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 2.6 mg/l
Exposure time: 96 h
Test Type: Static renewal test
Method: OECD Test Guideline 203
Remarks: Based on data from similar materials
- Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 2.2 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
Remarks: Based on data from similar materials
- NOEC (Pseudokirchneriella subcapitata (green algae)): 0.44 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) : NOEC (Oncorhynchus mykiss (rainbow trout)): > 1.3 mg/l
Exposure time: 56 d
Test Type: flow-through test
Remarks: Based on data from similar materials
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Ceriodaphnia dubia (water flea)): 0.96 mg/l
Exposure time: 7 d
Remarks: Based on data from similar materials
- Toxicity to microorganisms : NOEC (activated sludge): 16 mg/l
Exposure time: 28 h
Method: OECD Test Guideline 301F
- Toxicity to soil dwelling organisms : NOEC (Eisenia fetida (earthworms)): 16 mg/kg
Exposure time: 14 d
Remarks: Based on data from similar materials

ethylbenzene:

- Toxicity to fish : LC50 (Menidia menidia (Atlantic silverside)): 5.1 mg/l
Exposure time: 96 h
- LC50 (Oncorhynchus mykiss (rainbow trout)): 4.2 mg/l
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.8 mg/l
Exposure time: 48 h
- EC50 (Ceriodaphnia dubia (water flea)): 3.2 mg/l
Exposure time: 48 h
- Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (algae)): 3.6 mg/l
Exposure time: 96 h
- EC50 (Skeletonema costatum (marine diatom)): 7.7 mg/l

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Exposure time: 96 h

Toxicity to fish (Chronic toxicity) : NOEC (Fish): 0.25 - 3.4 mg/l
Method: QSAR

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Ceriodaphnia dubia (water flea)): 0.96 mg/l
Exposure time: 7 d

Toxicity to microorganisms : Method: OECD Test Guideline 209

Toxicity to soil dwelling organisms : (Eisenia fetida (earthworms)): 0.047 mg/cm2
Exposure time: 48 d
Method: OECD Test Guideline 207

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

toluene:

Toxicity to fish : LC50 (Fish): 5.5 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50: 3.78 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : NOEC (Skeletonema costatum (marine diatom)): 10 mg/l
Exposure time: 72 h

Toxicity to fish (Chronic toxicity) : NOEC (Oncorhynchus kisutch (coho salmon)): 1.4 mg/l

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Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Ceriodaphnia sp.): 0.74 mg/l
Exposure time: 7 d

Toxicity to microorganisms : EC50 (Bacteria): 134 mg/l
Exposure time: 3 h

Persistence and degradability

Components:

cyclohexanone:

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

dimethoate (ISO):

Biodegradability : Result: Not rapidly biodegradable

xylene:

Biodegradability : aerobic
Inoculum: activated sludge, non-adapted
Concentration: 16 mg/l
Result: Readily biodegradable.
Biodegradation: 98 %
Exposure time: 28 d
Method: OECD Test Guideline 301F
Remarks: Based on data from similar materials

aerobic
Inoculum: activated sludge, non-adapted
Concentration: 16 mg/l
Result: Readily biodegradable.
Biodegradation: 94 %
Exposure time: 28 d
Method: OECD Test Guideline 301F
Remarks: Based on data from similar materials

aerobic
Inoculum: activated sludge, non-adapted
Concentration: 16.2 mg/l
Result: Readily biodegradable.
Biodegradation: 90 %
Exposure time: 28 d
Method: OECD Test Guideline 301F
Remarks: Based on data from similar materials

ethylbenzene:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 79 %
Exposure time: 10 d

maleic anhydride:

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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

toluene:

Biodegradability : Result: Readily biodegradable.

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

xylene:

Bioaccumulation : Species: Oncorhynchus mykiss (rainbow trout)
Bioconcentration factor (BCF): > 4.9
Exposure time: 7 d
Concentration: 1.3 mg/l
Remarks: Based on data from similar materials

Partition coefficient: n-octanol/water : log Pow: 3.2 (20 °C)
pH: 7
Remarks: Based on data from similar materials

log Pow: 3.12 (20 °C)
pH: 7
Remarks: Based on data from similar materials

log Pow: 3.15 (20 °C)
pH: 7
Remarks: Based on data from similar materials

log Pow: 3.15 (20 °C)
pH: 7
Remarks: Based on data from similar materials

ethylbenzene:

Bioaccumulation : Species: Fish

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Bioconcentration factor (BCF): 110

Partition coefficient: n-octanol/water : Pow: 4,170 (20 °C)
log Pow: 3.03 - 3.6 (20 °C)
pH: 7.84

maleic anhydride:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

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

toluene:

Bioaccumulation : Bioconcentration factor (BCF): 90

Partition coefficient: n-octanol/water : log Pow: 2.73 (20 °C)

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

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.

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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, Xylene, Dimethoate)
Class : 3
Packing group : III
Labels : 3

IATA-DGR

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

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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
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

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 : 30.09.2021

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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
AU OEL / STEL : Exposure standard - short term exposure limit

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

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