

SAFETY DATA SHEET



Sportak® EW

Version 1.0	Revision Date: 01.12.2023	SDS Number: 50001334	Date of last issue: - Date of first issue: 01.12.2023
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Section 1: Identification

Product name : Sportak® EW

Recommended use of the chemical and restrictions on use

Recommended use : Can be used as fungicide only.

Restrictions on use : Use as recommended by the label.

Manufacturer or supplier's details

Company : FMC New Zealand Ltd

Address : Level 5, 3 Te Kahu Way
Mount Wellington
Auckland 1060
New Zealand

Telephone : +640800658080

Telefax : (09)-271-2961

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

Emergency telephone number : For leak, fire, spill or accident emergencies, call:
0800 734 607 (Ixm)

Medical emergency:
0800 764 766 (NZ Poisons Information Centre)
0800 111174 (24 hour Medical Emergency)
0800 387668 (Transport Emergency)

Section 2: Hazard identification

GHS Classification

Specific target organ toxicity - repeated exposure : Category 2

Hazardous to the aquatic environment - acute hazard : Category 1

Hazardous to the aquatic environment - chronic hazard : Category 1

Hazardous to the environment : Hazardous to terrestrial vertebrates



GHS label elements

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- Hazard pictograms :  
- Signal word : Warning
- Hazard statements : H373 May cause damage to organs through prolonged or repeated exposure.
H410 Very toxic to aquatic life with long lasting effects.
H433 Harmful to terrestrial vertebrates.
- Precautionary statements : P103 Read carefully and follow all instructions.
- Prevention:**
P260 Do not breathe mist or vapours.
P273 Avoid release to the environment.
- Response:**
P314 Get medical advice/ attention if you feel unwell.
P391 Collect spillage.
- 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)
prochloraz (ISO)	67747-09-5	>= 30 -< 50
2-sec-butylphenol	89-72-5	>= 10 -< 20
propane-1,2-diol	57-55-6	>= 1 -< 10
Solvent naphtha, petroleum, heavy aromatic	64742-94-5	>= 2.5 -< 10
Alcohols, coco, ethoxylated	61791-13-7	>= 1 -< 2.5

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 : If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.
- In case of skin contact : Wash off immediately with soap and plenty of water.
Call a physician if irritation develops or persists.

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| In case of eye contact | : Flush eyes with water as a precaution.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist. |
| If swallowed | : Induce vomiting immediately and call a physician.
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 and effects, both acute and delayed | : May cause damage to organs through prolonged or repeated exposure. |
| Notes to physician | : Treat symptomatically.
It may be helpful to show this safety data sheet to physician. |

Section 5: Fire-fighting measures

- | | |
|---|---|
| Suitable extinguishing media | : Water spray
Foam
Carbon dioxide (CO ₂)
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.
Carbon oxides
Nitrogen oxides (NO _x)
Chlorine compounds |
| 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. |
| Special protective equipment for firefighters | : Wear self-contained breathing apparatus for firefighting if necessary. |
| Hazchem Code | : 3Z |

Section 6: Accidental release measures

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| Personal precautions, protective equipment and emergency procedures | : Use personal protective equipment. |
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- 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 : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

Section 7: Handling and storage

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling : 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.
Dispose of rinse water in accordance with local and national regulations.
- 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 : 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 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 exposure)	Control parameters / Permissible concentration	Basis
2-sec-butylphenol	89-72-5	WES-TWA	5 ppm 31 mg/m ³	NZ OEL
Further information: Skin absorption				
		TWA	5 ppm	ACGIH
propane-1,2-diol	57-55-6	WES-TWA (particulate)	10 mg/m ³	NZ OEL
		WES-TWA (Vapour and particulates)	150 ppm 474 mg/m ³	NZ OEL

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Solvent naphtha, petroleum, heavy aromatic	64742-94-5	TWA	200 mg/m3 (total hydrocarbon vapor)	ACGIH
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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
- 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

- Physical state : liquid
- Form : liquid
- Colour : off-white
- Odour : characteristic
- pH : 7.67
- Flash point : > 95 °C
Method: Pensky-Martens closed cup - PMCC
- Self-ignition : not determined
- Vapour pressure : 0.3 hPa (20 °C)
- Density : 1.135 g/cm3 (20 °C)
- Solubility(ies)
Water solubility : completely miscible
- Viscosity
Viscosity, dynamic : 5 - 35 mPa.s (20 °C)
- Explosive properties : Not explosive

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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.
Incompatible materials	: Strong acids Strong bases Strong oxidizing agents
Hazardous decomposition products	: Nitrogen oxides (NO _x) Carbon oxides Chlorine compounds

Section 11: Toxicological information

Acute toxicity

Not classified due to lack of data.

Product:

Acute oral toxicity	: LD50 (Rat, male and female): > 2,000 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	: Acute toxicity estimate: > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
Acute dermal toxicity	: LD50 (Rat, male and female): > 4,000 mg/kg Method: OECD Test Guideline 402

Components:

prochloraz (ISO):

Acute oral toxicity	: LD50 (Rat, female): ca. 1,010 mg/kg Method: OECD Test Guideline 425 Symptoms: Breathing difficulties GLP: yes
Acute inhalation toxicity	: LC50 (Rat, male and female): > 2.16 mg/l Exposure time: 4 h Test atmosphere: dust/mist

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Method: OECD Test Guideline 403

Symptoms: Breathing difficulties

GLP: yes

Remarks: no mortality

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

2-sec-butylphenol:

Acute oral toxicity : LD50 (Rat, male and female): > 300 - 2,000 mg/kg
Method: OECD Test Guideline 401

propane-1,2-diol:

Acute oral toxicity : LD50 (Rat, male and female): 22,000 mg/kg

Acute inhalation toxicity : LC0 (Rabbit): 31.7 mg/l
Exposure time: 2 h
Test atmosphere: vapour
Remarks: no mortality

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity

Solvent naphtha, petroleum, heavy aromatic:

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 401
Remarks: Based on data from similar materials

Acute inhalation toxicity : LC50 (Rat): > 4.778 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2,000 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity
Remarks: Based on data from similar materials

Alcohols, coco, ethoxylated:

Acute oral toxicity : LD50 (Rat): 1,380 mg/kg
Method: OECD Test Guideline 401

Skin corrosion/irritation

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

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Product:

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

Components:

prochloraz (ISO):

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

2-sec-butylphenol:

Species	: Rabbit
Method	: OECD Test Guideline 404
Result	: Corrosive after 1 to 4 hours of exposure

propane-1,2-diol:

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

Solvent naphtha, petroleum, heavy aromatic:

Species	: Rabbit
Result	: No skin irritation

Alcohols, coco, ethoxylated:

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

Serious eye damage/eye irritation

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

Product:

Species	: Rabbit
Result	: No eye irritation
Method	: OECD Test Guideline 405
Remarks	: Minimal effects that do not meet the threshold for classification.

Components:

prochloraz (ISO):

Species	: Rabbit
Result	: Slight or no eye irritation
Assessment	: Not classified as irritant
Method	: OECD Test Guideline 405

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GLP : yes

2-sec-butylphenol:

Species : Chicken eye
Result : Irreversible effects on the eye
Method : OECD Test Guideline 438

propane-1,2-diol:

Species : Rabbit
Result : No eye irritation
Method : OECD Test Guideline 405

Solvent naphtha, petroleum, heavy aromatic:

Species : Rabbit
Result : No eye irritation
Remarks : Based on data from similar materials

Alcohols, coco, ethoxylated:

Species : Rabbit
Result : Irreversible effects on the eye
Method : OECD Test Guideline 405

Respiratory or skin sensitisation

Skin sensitisation

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

Respiratory sensitisation

Not classified due to lack of data.

Product:

Test Type : Buehler Test
Species : Guinea pig
Method : OECD Test Guideline 406
Result : Not a skin sensitizer.

Components:

prochloraz (ISO):

Test Type : Local lymph node assay (LLNA)
Species : mice
Assessment : Not a skin sensitizer.
Method : OECD Test Guideline 429
Result : Not a skin sensitizer.

propane-1,2-diol:

Test Type : Maximisation Test
Species : Guinea pig
Result : negative

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Solvent naphtha, petroleum, heavy aromatic:

Test Type	: Maximisation Test
Species	: Guinea pig
Result	: Not a skin sensitizer.
Remarks	: Based on data from similar materials

Chronic toxicity**Germ cell mutagenicity**

Not classified due to lack of data.

Components:**prochloraz (ISO):**

Genotoxicity in vitro	: Test Type: reverse mutation assay Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative GLP: yes Test system: mouse lymphoma cells Metabolic activation: with and without metabolic activation Result: negative
Genotoxicity in vivo	: Test Type: Micronucleus test Species: mice (male and female) Application Route: Oral Method: OECD Test Guideline 474 Result: negative GLP: yes
Germ cell mutagenicity - Assessment	: Weight of evidence does not support classification as a germ cell mutagen.

2-sec-butylphenol:

Genotoxicity in vitro	: Test Type: reverse mutation assay Method: Mutagenicity (Salmonella typhimurium - reverse mutation assay) Result: negative Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative
Germ cell mutagenicity - Assessment	: In vitro tests did not show mutagenic effects

propane-1,2-diol:

Genotoxicity in vitro	: Test Type: reverse mutation assay
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Result: negative

Genotoxicity in vivo : Test Type: In vivo micronucleus test
Species: Mouse
Result: negative

Solvent naphtha, petroleum, heavy aromatic:

Genotoxicity in vitro : Test Type: reverse mutation assay
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
Remarks: Based on data from similar materials

Test Type: Chromosome aberration test in vitro
Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Result: negative
Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Micronucleus test
Species: Mouse
Application Route: Ingestion
Result: negative

Carcinogenicity

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

Product:

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

Components:

prochloraz (ISO):

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

propane-1,2-diol:

Species : Rat
Application Route : Oral
Exposure time : 2 Years
Result : negative

Solvent naphtha, petroleum, heavy aromatic:

Carcinogenicity - Assessment : Limited evidence of carcinogenicity in animal studies

Reproductive toxicity

Not classified due to lack of data.

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Components:

prochloraz (ISO):

Reproductive toxicity - Assessment : No toxicity to reproduction

2-sec-butylphenol:

Effects on fertility : Test Type: Developmental Toxicity Screening Test
Species: Rat, male and female
Application Route: Oral
Dose: 0, 12, 60, 300 mg/kg bw/day
General Toxicity - Parent: NOAEL: 300 mg/kg bw/day
General Toxicity F1: NOAEL: 300 mg/kg bw/day
Method: OECD Test Guideline 422
Result: negative

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

propane-1,2-diol:

Effects on fertility : Test Type: reproductive and developmental toxicity study
Species: Mouse
Application Route: Oral
Result: negative

Effects on foetal development : Test Type: Embryo-foetal development
Species: Mouse
Application Route: Oral
Method: OECD Test Guideline 414
Result: Animal testing did not show any effects on fertility.
Remarks: Based on data from similar materials

Solvent naphtha, petroleum, heavy aromatic:

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

Effects on foetal development : Test Type: Pre-natal
Species: Rat
Application Route: Ingestion
Symptoms: Maternal effects
Method: OECD Test Guideline 414
Result: negative

STOT - single exposure

Not classified due to lack of data.

Components:

2-sec-butylphenol:

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

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STOT - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Product:

Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

Components:**Solvent naphtha, petroleum, heavy aromatic:**

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

Repeated dose toxicity**Components:****prochloraz (ISO):**

Species : Rat, male and female
LOAEL : 6 mg/kg bw/day
Application Route : Oral
Exposure time : 90 d
Dose : 6, 25, 100 mg/kg bw/day
Symptoms : increased liver weight

Species : Mouse, male and female
LOAEL : 25 mg/kg bw/day
Application Route : Oral
Exposure time : 90 d
Dose : 6, 25, 100, 400 mg/kg bw/day
Symptoms : increased liver weight

Species : Dog, male and female
NOAEL : 2.5 mg/kg
LOAEL : 7 mg/kg bw/day
Application Route : Oral
Exposure time : 90 d
Dose : 1, 2.5, 7, 20 mg/kg bw/day
Symptoms : increased liver weight

2-sec-butylphenol:

Species : Rat, male
NOEL : 12 mg/kg
LOAEL : 60 mg/kg
Application Route : Oral - gavage
Exposure time : 42 d
Dose : 0, 12, 60, 300 mg/kg/day
Method : OECD Test Guideline 422

propane-1,2-diol:

Species : Rat, male and female

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NOAEL	: 1,700 mg/kg
Application Route	: Oral
Exposure time	: 2 Years
Species	: Rat, male and female
NOAEL	: 1,000 mg/kg
LOAEL	: 160 mg/kg
Application Route	: Inhalation
Exposure time	: 90 Days

Solvent naphtha, petroleum, heavy aromatic:

Species	: Rat
NOAEL	: 300 mg/kg
Application Route	: Oral - gavage
Exposure time	: 13 weeks
Remarks	: mortality

Aspiration toxicity

Not classified due to lack of data.

Components:

prochloraz (ISO):

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

Solvent naphtha, petroleum, heavy aromatic:

May be fatal if swallowed and enters airways.

Further information

Product:

Remarks	: No data available
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Components:

prochloraz (ISO):

Remarks	: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Contact may cause slight irritation.
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Section 12: Ecological information

Ecotoxicity

Product:

Ecotoxicology Assessment

Other organisms relevant to the environment	: Harmful to terrestrial vertebrates.
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Components:

prochloraz (ISO):

- Toxicity to fish : LC50 (Cyprinodon variegatus (sheepshead minnow)): 1.2 mg/l
Exposure time: 96 h
Test Type: static test
GLP: yes
- LC50 (Lepomis macrochirus (Bluegill sunfish)): 2.2 mg/l
Exposure time: 96 h
Test Type: static test
GLP: yes
- LC50 (Oncorhynchus mykiss (rainbow trout)): 1.5 mg/l
Exposure time: 96 h
Test Type: static test
GLP: yes
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 4.3 mg/l
Exposure time: 48 h
Test Type: static test
- EC50 (Crassostrea virginica (atlantic oyster)): 0.69 - 1.3 mg/l
Exposure time: 96 h
Test Type: flow-through test
GLP: yes
- LC50 (Mysidopsis bahia (opossum shrimp)): 0.86 mg/l
Exposure time: 48 h
GLP: yes
- Toxicity to algae/aquatic plants : ErC50 (Desmodesmus subspicatus (green algae)): > 0.032 mg/l
Exposure time: 72 h
- ErC50 (Lemna gibba (duckweed)): 0.109 mg/l
Exposure time: 7 d
- M-Factor (Acute aquatic toxicity) : 10
- Toxicity to fish (Chronic toxicity) : NOEC (Pimephales promelas (fathead minnow)): 0.0485 mg/l
Exposure time: 36 d
- NOEC (Salmo gairdneri): 0.18 mg/l
End point: mortality
Exposure time: 28 d
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.0222 mg/l
Exposure time: 21 d
- M-Factor (Chronic aquatic toxicity) : 1

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Toxicity to terrestrial organisms : LD50 (*Apis mellifera* (bees)): 51 µg/bee
End point: Acute contact toxicity

LD50 (*Apis mellifera* (bees)): 61 µg/bee
End point: Acute oral toxicity

2-sec-butylphenol:

Toxicity to fish : LC50 (*Oncorhynchus mykiss* (rainbow trout)): > 1 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 3.7 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (*Pseudokirchneriella subcapitata* (green algae)): 10 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

NOEC (*Pseudokirchneriella subcapitata* (green algae)): 0.82 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 (activated sludge): > 10 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209

propane-1,2-diol:

Toxicity to fish : LC50 (*Oncorhynchus mykiss* (rainbow trout)): 40,613 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : (Mysidopsis bahia (opossum shrimp)): 18,800 mg/l
Exposure time: 96 h

Toxicity to algae/aquatic plants : EC50 (*Pseudokirchneriella subcapitata* (green algae)): 34,100 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 13,020 mg/l
Exposure time: 7 d

Toxicity to microorganisms : EC50 (*Pseudomonas putida*): > 20,000 mg/l
Exposure time: 18 h

Solvent naphtha, petroleum, heavy aromatic:

Toxicity to fish : LL50 (*Oncorhynchus mykiss* (rainbow trout)): 3 mg/l
Exposure time: 96 h
Method: EPA OPP 72-1

Toxicity to daphnia and other : EL50 (*Daphnia magna* (Water flea)): 1.1 mg/l

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aquatic invertebrates	Exposure time: 48 h
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 fish (Chronic toxicity)	: NOELR (Oncorhynchus mykiss (rainbow trout)): 0.103 mg/l Exposure time: 28 d Method: QSAR
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOELR (Daphnia magna (Water flea)): 0.18 mg/l Exposure time: 21 d Method: QSAR

Alcohols, coco, ethoxylated:

Toxicity to fish	: LC50 (Danio rerio (zebra fish)): 10 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to algae/aquatic plants	: EC10 (Desmodesmus subspicatus (green algae)): > 0.1 - 1 mg/l
Toxicity to microorganisms	: EC50 (Bacteria): > 1,000 mg/l Method: DIN 38 412 Part 8

Persistence and degradability

Components:

prochloraz (ISO):

Biodegradability	: Result: Not readily biodegradable.
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2-sec-butylphenol:

Biodegradability	: Inoculum: Microbial inoculum Result: Readily biodegradable. Biodegradation: 63 % Exposure time: 28 d Method: OECD Test Guideline 301D
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propane-1,2-diol:

Biodegradability	: Result: Readily biodegradable. Biodegradation: 23.6 % Exposure time: 64 d Method: OECD Test Guideline 306
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Biodegradability : Result: Not readily biodegradable.
Biodegradation: 60.74 %
Exposure time: 28 d
Method: OECD Test Guideline 301F

Alcohols, coco, ethoxylated:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 74 %
Exposure time: 28 d
Method: OECD Test Guideline 301B

Result: Readily biodegradable.
Biodegradation: 82 %
Exposure time: 28 d
Method: OECD Test Guideline 301E

Bioaccumulative potential

Components:

prochloraz (ISO):

Bioaccumulation : Remarks: See section 9 for octanol-water partition coefficient.
The product may be accumulated in organisms.

Partition coefficient: n-octanol/water : log Pow: 4.12 (25 °C)

2-sec-butylphenol:

Partition coefficient: n-octanol/water : log Pow: 3 (25 °C)
pH: 7

propane-1,2-diol:

Partition coefficient: n-octanol/water : log Pow: -1.07

Solvent naphtha, petroleum, heavy aromatic:

Partition coefficient: n-octanol/water : log Pow: 3.17 - 5.6
Method: QSAR

Alcohols, coco, ethoxylated:

Partition coefficient: n-octanol/water : log Pow: 2.03

Mobility in soil

Components:

prochloraz (ISO):

Distribution among environmental compartments : Remarks: immobile

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Other adverse effects

Product:

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 : 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.

Section 14: Transport information

International Regulations

UNRTDG

UN number : UN 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(prochloraz)
Class : 9
Packing group : III
Labels : 9
Environmentally hazardous : yes

IATA-DGR

UN/ID No. : UN 3082
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.
(prochloraz)
Class : 9
Packing group : III
Labels : Miscellaneous
Packing instruction (cargo aircraft) : 964
Packing instruction (passenger aircraft) : 964
Environmentally hazardous : yes

IMDG-Code

UN number : UN 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(prochloraz)
Class : 9
Packing group : III

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Labels	:	9
EmS Code	:	F-A, S-F
Marine pollutant	:	yes
Remarks	:	Environmentally hazardous substances/Marine Pollutants in single or combination packaging containing a net quantity per single or inner packaging of 5 kg or less for solids, or having a net quantity per single or inner packaging of 5 L or less for liquids may be transported as non-dangerous goods as provided in special provision A197 of the IATA and section 2.10.2.7 of IMDG code.

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

Not applicable for product as supplied.

National Regulations

NZS 5433

UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (prochloraz)
Class	:	9
Packing group	:	III
Labels	:	9
Hazchem Code	:	3Z
Marine pollutant	:	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

HSNO Approval Number

HSR007837

ACVM Number: P7750

The components of this product are reported in the following inventories:

TCSI	:	On the inventory, or 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. N-PROPYL-N-[2-(2,4,6-

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TRICHLOROPHENOXY)ETHYL]IMIDAZOLE-1-CARBOXAMIDE
Smectite-group minerals

ENCS	: Not in compliance with the inventory
ISHL	: Not in compliance with the inventory
KECI	: On the inventory, or in compliance with the inventory
PICCS	: Not in compliance with the inventory
IECSC	: On the inventory, or in compliance with the inventory
NZIoC	: Not in compliance with the inventory
TECI	: Not in compliance with the inventory

Section 16: Other information

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Full text of other abbreviations

ACGIH	: USA. ACGIH Threshold Limit Values (TLV)
NZ OEL	: New Zealand. Workplace Exposure Standards for Atmospheric Contaminants

ACGIH / TWA	: 8-hour, time-weighted average
NZ OEL / WES-TWA	: Workplace 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

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es; (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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