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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : VIRKON H

Product code : 62162572

Manufacturer or supplier's details

Supplier : LANXESS Pty Ltd

2d Factory Street Granville, NSW 2142, Australia

Telephone : +61288687211

E-mail address of person responsible for the SDS

infosds@lanxess.com

Emergency telephone number : IXOM Emergency Response Service (ERS)

Phone 1800 033 111 • 24 hours • Toll-free • Australia wide

Recommended use of the chemical and restrictions on use

Recommended use : Disinfectants

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Skin corrosion/irritation : Category 2

Serious eye damage/eye irri-

tation

Category 1

Short-term (acute) aquatic

hazard

Category 2

Long-term (chronic) aquatic

hazard

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Category 3

GHS label elements

Hazard pictograms :

下至)

Signal word : Danger

Hazard statements : H315 Causes skin irritation.

H318 Causes serious eye damage.

H401 Toxic to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements : Prevention:

P264 Wash skin thoroughly after handling.



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P273 Avoid release to the environment.

P280 Wear protective gloves/ eye protection/ face protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON

CENTER or doctor/ physician.

P332 + P313 If skin irritation occurs: Get medical advice/ atten-

tion.

P362 Take off contaminated clothing and wash before reuse.

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)
pentapotassium bis(peroxymonosulphate)	70693-62-8	>= 30 -< 60
bis(sulphate)		
Benzenesulfonic acid, C10-13-alkyl derivs., so-	68411-30-3	>= 10 -< 25
dium salts		
malic acid	6915-15-7	< 10
sulphamidic acid	5329-14-6	>= 2.5 -< 10
potassium hydrogensulphate	7646-93-7	>= 1 -< 3
dipotassium disulphate	7790-62-7	>= 1 -< 3
sodium toluenesulphonate	12068-03-0	< 10
dipotassium peroxodisulphate	7727-21-1	>= 0.25 -< 1
dipentene	138-86-3	>= 0.025 -< 0.25

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.

Consult a physician.

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 : If skin irritation persists, call a physician.

If on skin, rinse well with water. If on clothes, remove clothes.



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In case of eye contact : Small amounts splashed into eyes can cause irreversible tis-

sue damage and blindness.

In the case of contact with eyes, rinse immediately with plenty

of water and seek medical advice.

Continue rinsing eyes during transport to hospital.

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.

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

None known.

Notes to physician : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or car-

bon dioxide.

Unsuitable extinguishing

media

Carbon dioxide (CO2)

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 prod: :

ucts

Sulphur oxides Metal oxides

Carbon dioxide (CO2)
Carbon monoxide
Nitrogen oxides (NOx)
Halogenated compounds

Specific extinguishing meth-

ods

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 nec-

essary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- :

tive equipment and emer-

gency procedures

Use personal protective equipment.

Avoid dust formation. Avoid breathing dust.



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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

Neutralize with chalk, alkali solution or ammonia. Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against :

fire and explosion

Avoid dust formation.

Provide appropriate exhaust ventilation at places where dust

is formed.

Advice on safe handling : Protect from moisture.

Avoid formation of respirable particles.

Do not breathe vapours/dust. Avoid contact with skin and eyes. For personal protection see section 8.

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

Protect from moisture.

Combustible substances

Strong bases

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.

Electrical installations / working materials must comply with

the technological safety standards.

Materials to avoid : Do not store near acids.

Recommended storage tem-

perature

< 50 °C

Further information on stor-

age stability

Keep in a dry place.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components CAS-No	(Form of t	Control parameters / Permissible concentration	Basis
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dipotassium peroxodisulphate	7727-21-1	Peak limit	0.1 mg/m3	AU OEL	
	Further information: Sensitiser				
		TWA	0.1 mg/m3	ACGIH	
			(Persulphate)		

Engineering measures : This information is not available.

Personal protective equipment

Respiratory protection : In the case of dust or aerosol formation use respirator with an

approved filter.

Filter type : Recommended Filter type:

ABEK-P2-filter

Hand protection

Material : Butyl rubber - IIR

Wearing time : < 60 min

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves. After contamination with product change the gloves immediately and dispose of them according to relevant national and local regulations

Eye protection : Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing

problems.

Skin and body protection : Dust impervious protective suit

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

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : powder

Colour : pink

Odour : pleasant, sweet

Odour Threshold : No data available

pH : 2.35 - 2.65

Concentration: 1 %

Melting point/freezing point : No data available

Boiling point/boiling range : No data available

Flash point : No data available

Evaporation rate : No data available



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Flammability (solid, gas) : No data available

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit : No data available

Vapour pressure : No data available

Relative vapour density : No data available

Relative density : No data available

Density : 1.07 g/cm³ (20 °C)

Solubility(ies)

Water solubility : 65 g/l

Partition coefficient: n-

octanol/water

No data available

Ignition temperature : No data available

Decomposition temperature : > 50 °C

Viscosity : No data available

Explosive properties : No data available

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Method: Regulation (EC) No. 440/2008, Annex, A.17

Molecular weight : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No specific test data related to reactivity available for this

product or its ingredients.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reac-

tions

Under normal conditions of storage and use, hazardous reac-

tions will not occur.

Stable under recommended storage conditions.

Dust may form explosive mixture in air.

Conditions to avoid : Exposure to moisture

Incompatible materials : Incompatible with acids.

Combustible material
Oxidizing agents
Strong bases

brass Cyanides



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Copper

Halogenated compounds

Metal salt.

Hazardous decomposition

products

Oxygen Chlorine

Sulphur oxides Hypochlorites

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity : LD50 (Rat, male and female): 4,123 mg/kg

Method: OECD Test Guideline 401

GLP: yes

Acute inhalation toxicity : LC50 (Rat): 3.7 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Remarks: the particle size measurements of the product indicate that it is not respirable and therefore not bioavailable by

the inhalation route.

Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg

Remarks: Extrapolation according to Regulation (EC) No.

440/2008

Components:

pentapotassium bis(peroxymonosulphate) bis(sulphate):

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

Method: OECD Test Guideline 423

Acute inhalation toxicity : LC0 (Rat, male): > 5 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Remarks: Highest producible concentration.

Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg

Method: OECD Test Guideline 402

Remarks: Extrapolation according to Regulation (EC) No.

440/2008

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:

Acute oral toxicity : LD50 (Rat, male and female): 1,080 mg/kg

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Method: OECD Test Guideline 401

GLP: no

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg

Method: OECD Test Guideline 402

GLP: yes

Assessment: The substance or mixture has no acute dermal

toxicity

Remarks: Dosage caused no mortality

malic acid:

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

Method: OECD Test Guideline 401

GLP: no

Acute inhalation toxicity : LC0 (Rat, male and female): > 1.306 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist Method: OECD Test Guideline 403

Remarks: Highest producible concentration.

Acute dermal toxicity : LD50 (Rabbit, female): > 5,000 mg/kg

Method: OECD Test Guideline 401

GLP: no

sulphamidic acid:

Acute oral toxicity : LD50 (Rat, female): 2,140 mg/kg

Method: OECD Test Guideline 401

GLP: yes

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg

Method: OECD Test Guideline 402

GLP: yes

Assessment: The substance or mixture has no acute dermal

toxicity

potassium hydrogensulphate:

Acute oral toxicity : LD50 (Rat): 2,340 mg/kg

dipotassium disulphate:

Acute oral toxicity : LD50 (Rat, male): 2,140 mg/kg

Method: OECD Test Guideline 401

Remarks: Test results on an analogous product

Acute inhalation toxicity : Assessment: Corrosive to the respiratory tract.

Assessment: The component/mixture is toxic after short term

inhalation.

sodium toluenesulphonate:

Acute oral toxicity : LD50 (Rat): 6,500 mg/kg

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Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

dipotassium peroxodisulphate:

Acute oral toxicity : LD50 (Rat): 700 mg/kg

Acute inhalation toxicity : LC0 (Rat): > 2.95 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Remarks: Highest producible concentration.

Acute dermal toxicity : LD50 (Rabbit): > 10,000 mg/kg

dipentene:

Acute oral toxicity : LD50 (Rat): 5,300 mg/kg

Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg

Skin corrosion/irritation

Product:

Species: Rabbit

Method: OECD Test Guideline 404

Result: Irritating to skin.

Components:

pentapotassium bis(peroxymonosulphate) bis(sulphate):

Species: Rabbit

Method: OECD Test Guideline 404

Result: Causes burns.

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:

Species: Rabbit

Method: OECD Test Guideline 404

Result: Irritating to skin.

GLP: no

malic acid:

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

sulphamidic acid:

Species: Rabbit

Method: OECD Test Guideline 404

Result: Irritating to skin.

potassium hydrogensulphate:

Assessment: Causes burns.



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dipotassium disulphate:

Assessment: Causes severe burns.

sodium toluenesulphonate:

Species: Rabbit

Result: Irritating to skin.

dipotassium peroxodisulphate:

Species: Rabbit

Method: OECD Test Guideline 404

Result: Irritating to skin.

dipentene:

Assessment: Irritating to skin.

Serious eye damage/eye irritation

Components:

pentapotassium bis(peroxymonosulphate) bis(sulphate):

Species: Rabbit

Result: Risk of serious damage to eyes. Method: OECD Test Guideline 405

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:

Species: Rabbit

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

GLP: yes

malic acid:

Species: Rabbit

Result: Irritating to eyes.

Method: OECD Test Guideline 405

sulphamidic acid:

Species: Rabbit

Result: Irritating to eyes.

Method: OECD Test Guideline 405

dipotassium disulphate:

Assessment: Risk of serious damage to eyes.

sodium toluenesulphonate:

Species: Rabbit

Result: Irritating to eyes.



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dipotassium peroxodisulphate:

Result: Irritating to eyes.

dipentene:

Species: Rabbit

Result: Irritating to eyes.

Respiratory or skin sensitisation

Product:

Exposure routes: Skin contact

Species: Guinea pig

Method: OECD Test Guideline 406

Result: Did not cause sensitisation on laboratory animals.

Exposure routes: Inhalation

Species: Mammal - species unspecified

Method: Expert judgement

Result: Does not cause respiratory sensitisation.

Components:

pentapotassium bis(peroxymonosulphate) bis(sulphate):

Exposure routes: Skin contact

Species: Guinea pig

Method: OECD Test Guideline 406 Result: Does not cause skin sensitisation.

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:

Test Type: Maximisation Test Exposure routes: Skin contact

Species: Guinea pig

Method: OECD Test Guideline 406

Result: Did not cause sensitisation on laboratory animals.

GLP: yes

malic acid:

Exposure routes: Skin contact

Species: Guinea pig

Method: OECD Test Guideline 406

Result: Did not cause sensitisation on laboratory animals.

GLP: yes

sulphamidic acid:

Result: Did not cause sensitisation on laboratory animals.

sodium toluenesulphonate:

Exposure routes: Skin contact

Species: Guinea pig

Method: OECD Test Guideline 406

Result: Did not cause sensitisation on laboratory animals.

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dipotassium peroxodisulphate:

Exposure routes: Inhalation

Species: Mammal - species unspecified Result: May cause sensitisation by inhalation.

Exposure routes: Skin contact

Species: Mouse

Method: OECD Test Guideline 429

Result: May cause sensitisation by skin contact.

dipentene:

Test Type: Maximisation Test Exposure routes: Dermal Species: Guinea pig

Result: May cause sensitisation by skin contact.

Chronic toxicity

Germ cell mutagenicity

Components:

pentapotassium bis(peroxymonosulphate) bis(sulphate):

Genotoxicity in vitro : Test system: Mammalian-Animal

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: positive GLP: yes

Test system: Bacteria

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

GLP: yes

Test system: Mammalian-Human

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: positive GLP: yes

Genotoxicity in vivo : Species: Mammalian-Animal

Application Route: Oral

Method: OECD Test Guideline 474

Result: negative

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:

Genotoxicity in vitro : Test Type: Ames test

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

GLP: yes



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Test Type: Chromosome aberration test in vitro Test system: Chinese hamster ovary cells Metabolic activation: without metabolic activation

Method: OECD Test Guideline 473

Result: negative GLP: yes

Test Type: Chromosome aberration test in vitro Test system: Chinese hamster ovary cells Metabolic activation: with metabolic activation

Method: OECD Test Guideline 473

Result: positive GLP: yes

Test Type: In vitro mammalian cell gene mutation test

Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative GLP: yes

Genotoxicity in vivo

Test Type: Cytogenetic assay

Species: Mouse (male) Cell type: Bone marrow Application Route: Oral

Result: negative

GLP: no

Test Type: dominant lethal test

Species: Mouse (male) Application Route: Oral Result: negative

GLP: no

malic acid:

Genotoxicity in vitro

Remarks: Not mutagenic in a standard battery of genetic toxi-

cological tests.

sulphamidic acid:

Genotoxicity in vitro : Test system: Mammalian-Human

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 487

Result: negative

GLP: yes

Test system: Mammalian-Animal

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

Test system: Bacteria

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

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sodium toluenesulphonate:

Genotoxicity in vitro : Remarks: No mutagenic effect.

dipotassium peroxodisulphate:

Genotoxicity in vitro : Remarks: Not mutagenic in a standard battery of genetic toxi-

cological tests.

Reproductive toxicity

Components:

pentapotassium bis(peroxymonosulphate) bis(sulphate):

Effects on foetal develop: : Remarks: No teratogenic or foetotoxic effects were found at all

ment dose levels tested.

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:

Effects on fertility : Test Type: Three-generation study

Species: Rat, male and female

Application Route: Oral

Dose: 0 - 14 - 70 - 350 milligram per kilogram

General Toxicity - Parent: NOAEL: 350 mg/kg body weight General Toxicity F1: NOAEL: 350 mg/kg body weight General Toxicity F2: NOAEL: 350 mg/kg body weight

Fertility: NOAEL: 350 mg/kg body weight

Result: Animal testing did not show any effects on fertility.

GLP: no

Remarks: Test results on an analogous product

Effects on foetal develop-

ment

Species: Rat, female Application Route: Oral

General Toxicity Maternal: NOAEL: 300 mg/kg body weight

Teratogenicity: NOAEL: 300 mg/kg body weight

Result: No teratogenic effects

GLP: no

Remarks: Test results on an analogous product

malic acid:

Effects on foetal develop-

ment

Remarks: No known significant effects or critical hazards.

STOT - single exposure

Components:

potassium hydrogensulphate:

Assessment: May cause respiratory irritation.

dipotassium peroxodisulphate:

Assessment: May cause respiratory irritation.

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Repeated dose toxicity

Components:

pentapotassium bis(peroxymonosulphate) bis(sulphate):

Species: Rat, male and female LOAEL: > 1,000 mg/kg Application Route: Oral

Exposure time: 28 d

Number of exposures: 7 days/week Method: OECD Test Guideline 407 Remarks: Subacute toxicity

Species: Rat, male and female

LOAEL: 600 mg/kg Application Route: Oral Exposure time: 90 d

Number of exposures: 7 days/week Method: OECD Test Guideline 408 Remarks: Subchronic toxicity

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:

Species: Rat, male and female

NOAEL: 85 mg/kg LOAEL: 145 mg/kg Application Route: Oral Exposure time: 36 w

Number of exposures: daily

GLP: no

Remarks: Subchronic toxicity

malic acid:

Remarks: No known significant effects or critical hazards.

sodium toluenesulphonate:

Species: Rat NOAEL: 114 mg/kg Application Route: Oral Exposure time: 91 d

Method: OECD Test Guideline 408 Remarks: Subchronic toxicity

Further information

Product:

Remarks: No data available



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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish : LC50 (Salmo salar (Atlantic salmon)): 24.6 mg/l

Exposure time: 96 h

Method: Regulation (EC) No. 440/2008, Annex, C.1

Remarks: Fresh water

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 6.5 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Remarks: Fresh water

Toxicity to algae : NOEC (Desmodesmus subspicatus (green algae)): 6.25 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Remarks: Fresh water

Components:

pentapotassium bis(peroxymonosulphate) bis(sulphate):

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 53 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

GLP: yes

Remarks: Fresh water

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 3.5 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

GLP: yes

Remarks: Fresh water

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (microalgae)): > 1 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

GLP: yes

Remarks: Fresh water

NOEC (Pseudokirchneriella subcapitata (microalgae)): 0.5

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

GLP: yes

Remarks: Fresh water

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 2.88 mg/l

Exposure time: 96 h Analytical monitoring: yes

Method: OECD Test Guideline 203

GLP: no

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Remarks: Fresh water

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 2.9 mg/l

Exposure time: 48 h Analytical monitoring: yes

Method: OECD Test Guideline 202

GLP: yes

Remarks: Fresh water

Toxicity to algae : ErC50 (Pseudokirchneriella subcapitata (green algae)): 235

mg/l

Exposure time: 72 h Analytical monitoring: no

Method: OECD Test Guideline 201

GLP: no

Remarks: Fresh water

EC10 (Pseudokirchneriella subcapitata (green algae)): 13.1

mg/l

Exposure time: 72 h Analytical monitoring: no

Method: OECD Test Guideline 201

GLP: no

Remarks: Fresh water

Toxicity to fish (Chronic tox-

icity)

NOEC (Oncorhynchus mykiss (rainbow trout)): 0.23 mg/l

Exposure time: 72 d Analytical monitoring: yes

Method: OECD Test Guideline 210

GLP: no

Remarks: Fresh water

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC (Daphnia magna (Water flea)): 1.18 mg/l

Exposure time: 21 d Analytical monitoring: yes

Method: OECD Test Guideline 211

GLP: no

Remarks: Fresh water

malic acid:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 100 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

GLP: yes

Remarks: Fresh water

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 240 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

GLP: yes

Remarks: Fresh water

Toxicity to algae : EC50 (algae): > 100 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

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GLP: yes

Remarks: Fresh water

NOEC (algae): 100 mg/l Exposure time: 72 h

Method: OECD Test Guideline 201

GLP: yes

Remarks: Fresh water

sulphamidic acid:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 70.3 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

GLP: no

Remarks: Fresh water

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 71.6 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

GLP: yes

Remarks: Fresh water

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): 48 mg/l

End point: Growth rate Exposure time: 72 h

Method: OECD Test Guideline 201

GLP: yes

Remarks: Fresh water

NOEC (Desmodesmus subspicatus (green algae)): 18 mg/l

End point: Growth rate Exposure time: 72 h

Method: OECD Test Guideline 201

GLP: yes

Remarks: Fresh water

Toxicity to fish (Chronic tox-

icity)

NOEC (Danio rerio (zebra fish)): >= 60 mg/l

Exposure time: 34 d

Method: OECD Test Guideline 210

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC (Daphnia magna (Water flea)): 19 mg/l

Exposure time: 21 d

Method: OECD Test Guideline 211

Toxicity to microorganisms : EC50: > 200 mg/l

End point: Respiration inhibition

Exposure time: 3 h

Method: OECD Test Guideline 209

GLP: yes

Remarks: Fresh water

dipotassium disulphate:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 680 mg/l

Exposure time: 96 h Remarks: Fresh water

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Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 720 mg/l

Exposure time: 48 h Remarks: Fresh water

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (microalgae)): 1,492

mg/l

Exposure time: 96 h Remarks: Fresh water

EC10 (Pseudokirchneriella subcapitata (microalgae)): 656

mg/l

Exposure time: 96 h Remarks: Fresh water

Toxicity to fish (Chronic tox-

icity)

NOEC (Pimephales promelas (fathead minnow)): > 595 mg/l

Exposure time: 7 Days Remarks: Fresh water

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC (Ceriodaphnia dubia (Water flea)): 790 mg/l

Exposure time: 7 Days Remarks: Fresh water

sodium toluenesulphonate:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 490 mg/l

Exposure time: 96 h
Remarks: Fresh water

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 318 mg/l

Exposure time: 48 h Remarks: Fresh water

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): 245 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Remarks: Fresh water

NOEC (Desmodesmus subspicatus (green algae)): 18 mg/l

Exposure time: 72 h Remarks: Fresh water

dipotassium peroxodisulphate:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 76.3 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 120 mg/l

Exposure time: 48 h

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (microalgae)): 83.7

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

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Ecotoxicology Assessment

Chronic aquatic toxicity This product has no known ecotoxicological effects.

dipentene:

Toxicity to fish LC50 (Pimephales promelas (fathead minnow)): 0.702 mg/l

> Exposure time: 96 h Remarks: Fresh water

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 0.421 mg/l

Exposure time: 48 h Remarks: Fresh water

M-Factor (Acute aquatic tox- : 1

icity)

M-Factor (Chronic aquatic

toxicity)

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Persistence and degradability

Components:

pentapotassium bis(peroxymonosulphate) bis(sulphate):

Result: The methods for determining the biological degradabil-Biodegradability

ity are not applicable to inorganic substances.

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:

Result: Readily biodegradable. Biodegradability

> Biodegradation: 83 % Exposure time: 28 d

Method: OECD Test Guideline 301B

GLP: ves

malic acid:

Biodegradability aerobic

> Result: Readily biodegradable. Biodegradation: 67.5 %

Exposure time: 28 d

Method: OECD Test Guideline 301B

GLP: yes

sulphamidic acid:

Biodegradability Result: The methods for determining the biological degradabil-

ity are not applicable to inorganic substances.

dipotassium disulphate:

Biodegradability Result: The methods for determining the biological degradabil-

ity are not applicable to inorganic substances.



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sodium toluenesulphonate:

Biodegradability : Result: Not readily biodegradable.

Biodegradation: 0 - 2 % Exposure time: 28 d

Method: OECD Test Guideline 301C

dipotassium peroxodisulphate:

Biodegradability : Result: The methods for determining the biological degradabil-

ity are not applicable to inorganic substances.

dipentene:

Biodegradability : Result: Not rapidly biodegradable

Bioaccumulative potential

Components:

pentapotassium bis(peroxymonosulphate) bis(sulphate):

Partition coefficient: n- : log Pow: < 0.3

octanol/water Method: OECD Test Guideline 117

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:

Partition coefficient: n- : log Pow: 1.4 (23 °C)

octanol/water Method: OECD Test Guideline 123

malic acid:

Partition coefficient: n-

octanol/water

log Pow: -1.26

sulphamidic acid:

Partition coefficient: n-

octanol/water

log Pow: -4.34

Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological infor-

mation

An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Toxic to aquatic life.

Harmful 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

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courses or the soil.

Do not contaminate ponds, waterways or ditches with chemi-

cal 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

National Regulations

ADG

Not regulated as a dangerous good

International Regulations

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

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

Not applicable for product as supplied.

Hazard statements Not dangerous cargo.

Risk of serious damage to eyes.

Irritating to skin.

Keep dry.

Keep separated from foodstuffs.

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

International Chemical Weapons Convention (CWC)

Schedules of Toxic Chemicals and Precursors

Not applicable

There is no applicable prohibition or Prohibition/Licensing Requirements

> notification/licensing requirements, including for carcinogens under Commonwealth, State or Territory

legislation.

Other international regulations

No data available

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SECTION 16. OTHER INFORMATION

Full text of other abbreviations

ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

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ACGIH : USA. ACGIH Threshold Limit Values (TLV)

AU OEL : Australia. Workplace Exposure Standards for Airborne Con-

taminants.

ACGIH / TWA : 8-hour, time-weighted average AU OEL / Peak limit : Exposure standard - peak

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