

Safety Data Sheet

Elmotherm VA42 SPRAY

Revision: 14/10/2020
SDS according to WHS and ADG requirements

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SECTION 1: Identification of the Substance / Mixture and of the Company / Undertaking

1.1 Product Identifier

Trade Name: Elmotherm VA42 SPRAY

1.2 Relevant Identified Uses of the Substance or Mixture and uses Advised Against

Air dry, finishing spray insulating varnish based on an alkyd resin with good dielectric and thermal properties. It provides fast, trouble free and clean application to all electrical repair and maintenance items. This product is for industrial use only; it is not intended for consumer use or retail sale.

1.3 Details of the Distributor

Distributor :	Swift Supplies Online Pty Ltd 99 Harburg Drive, Beenleigh, QLD 4207 Australia	Manufacturer :	Elantas Europe S.r.l. Starda Antolini 1 43044 Collecchio Italy
Phone :	61 (0)7 3180 - 8824	Phone :	+39 07363081
Email :	service@swiftsupplies.com.au	Fax :	+39 0736402746
Web :	www.swiftsupplies.com.au	Web :	www.elantas.it

Poisons Information Centre: 13 1126 from anywhere in Australia, (0800 764 766 in New Zealand)

SECTION 2: Hazards Identification

2.1 Classification of the Substance or Mixture

Hazardous Classification Statement

HAZARDOUS SUBSTANCE. DANGEROUS GOOD. According to the WHS Regulations and ADG Criteria

Classification

Aerosols, Category 1	H222: Extremely flammable aerosol. H229: Pressurised container: May burst if heated.
Skin irritation, Category 2	H315: Causes skin irritation.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Specific target organ toxicity -single exposure, Category 3 (Central nervous system)	H336: May cause drowsiness or dizziness.
Specific target organ toxicity repeated exposure, Category 2	H373: May cause damage to organs through prolonged or - repeated exposure.

2.2 Label Elements

Hazard Pictograms:



Signal Word : **Danger**
Hazard Statements : H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H315 Causes skin irritation.

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H318 Causes serious eye damage.
H336 May cause drowsiness or dizziness.
H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary Statement(s) **Prevention:**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P280 Wear eye protection/ face protection.

Precautionary Statement(s) **Response:**

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/ doctor.

Precautionary Statement(s) **Storage:**

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F

Precautionary Statement(s) **Disposal:**

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

2.3 Additional Labelling: H208 Contains: 2-butanone oxime. May produce an allergic reaction.

2.4 Other Hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
Warning: Container under pressure.

SECTION 3: Composition / Information on Ingredients

Chemical Nature : Alkyd Resin Solution

Hazardous Components

<u>Chemical Name</u>	<u>CAS-No.</u>	<u>Concentration (%)</u>
Xylene, mixture of isomers	1330-20-7	>= 12.5 - < 20
acetone	67-64-1	>= 12.5 - < 20
Hydrocarbons, C3-4; petroleum gas	68476-40-4	>= 10 - < 12,5
butanone	78-93-3	>= 1 - < 3
iso-butanol	78-83-1	>= 1 - < 3
cyclohexanone	108-94-1	>= 1 - < 3
2-butanone oxime	96-29-7	>= 0,1 - < 0,25

Substances with a workplace exposure limit:

dimethyl ether	115-10-6	>= 30 - < 50
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SECTION 4: First Aid Measures

4.1 Description of First Aid Measures

General Advice : Consult a physician.

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Show this safety data sheet to the doctor in attendance.
Treat symptomatically.
Do not leave the victim unattended.

Protection of First Aiders : If potential for exposure exists refer to Section 8 for specific personal protective equipment.
Avoid inhalation, ingestion and contact with skin and eyes.

If Inhaled : Move to fresh air.
Oxygen or artificial respiration if needed.
If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.

In Case of Skin Contact: Take off contaminated clothing and shoes immediately.
Wash off immediately with plenty of water for at least 15 minutes.
Use a mild soap if available.
If skin irritation persists, call a physician.
If on clothes, remove clothes. Wash contaminated clothing before re-use.

In Case of Eye Contact : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Keep eye wide open while rinsing.

If Swallowed : Call a physician immediately.
Gently wipe or rinse the inside of the mouth with water.
Do not induce vomiting without medical advice.
Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Nausea
Central nervous system depression
Drowsiness

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

SECTION 5: Fire Fighting Measures

5.1 Extinguishing Media

Suitable Extinguishing Media : Water spray
Alcohol resistant foam
Carbon dioxide (CO₂)
Dry chemical
Keep containers and surroundings cool with water spray

Unsuitable Extinguishing Media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : The pressure in sealed containers can increase under the influence of heat.
Warning: water promotes the spread of fire.

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Burning produces irritant fumes.
Exposure to decomposition products may be a hazard to health.

5.3 Advice for Fire Fighters

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

Further information : Cool containers/tanks with water spray.
Keep away from heat and sources of ignition.
Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Ensure adequate ventilation.
Keep people away from and upwind of spill/leak.
Refer to protective measures listed in sections 7 and 8.
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
Remove all sources of ignition.

6.2 Environmental precautions

Environmental precautions : Do not allow material to contaminate ground water system.
Prevent product from entering drains.
Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
Sweep up and shovel into suitable containers for disposal.
Clean contaminated surface thoroughly.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and Storage

7.1 Precautions for Safe Handling

Advice on safe handling : Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.
Do not spray on a naked flame or any incandescent material.
Keep away from sources of ignition - No smoking. Keep away from children.
Operate, if possible, out of doors or in a well-ventilated place.

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Advice on protection against: Use only in area provided with appropriate exhaust ventilation.

Hygiene measures: Store personal protection equipment in a clean location away from the work area. Keep working clothes separately.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage: Keep containers in a dry, cool and well-ventilated place.
areas and containers

7.3 Specific end use(s): Consult the technical guidelines for the use of this substance /mixture.

Specific use(s)

SECTION 8: Exposure Controls / Personal Protection

8.1 Control Parameters

Components with workplace control parameters

Component	CAS -No.	Value type (Form of exposure)	Control parameters	Basis
dimethyl ether	115-10-6	TWA	1.000 ppm (1.920 mg/m ³)	20000/39/EC
Xylene, mixture of isomers	1330-20-7	TWA	50 ppm (221 mg/ m ³)	20000/39/EC
		STEL	100 ppm (442 mg/ m ³)	20000/39/EC
acetone	67-64-1	TWA	500 ppm (1.210 mg/ m ³)	20000/39/EC
butanone	78-93-3	TWA	200 ppm (600 mg/ m ³)	20000/39/EC
		STEL	300 ppm (900 mg/ m ³)	20000/39/EC
cyclohexanone	108-94-1	TWA	10 ppm (40,8 mg/ m ³)	20000/39/EC
		STEL	20 ppm (81,6 mg/ m ³)	20000/39/EC

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Xylene, mixture of isomers

: End Use: Workers

Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 77 mg/m³

End Use: Workers

Exposure routes: Inhalation

Potential health effects: Acute systemic effects

Value: 289 mg/m³

End Use: Workers

Exposure routes: Inhalation

Potential health effects: Acute local effects

Value: 289 mg/m³

End Use: Workers

Exposure routes: Dermal

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Potential health effects: Long-term systemic effects
Value: 180 mg/kg

End Use: Consumers
Exposure routes: Inhalation

Potential health effects: Long-term systemic effects
Value: 14,8 mg/m³

End Use: Consumers
Exposure routes: Dermal
Potential health effects: Long-term systemic effects
Value: 108 mg/kg

End Use: Consumers
Exposure routes: Oral
Potential health effects: Long-term systemic effects
Value: 1,6 mg/kg

End Use: Consumers
Exposure routes: Inhalation
Potential health effects: Short-term exposure
Value: 174 mg/m³

acetone

: End Use: Workers
Exposure routes: Inhalation
Potential health effects: Acute local effects
Value: 2420 mg/m³

End Use: Workers
Exposure routes: Inhalation
Potential health effects: Long-term exposure
Value: 1210 mg/m³

End Use: Workers
Exposure routes: Skin contact
Potential health effects: Long-term exposure
Value: 186 mg/kg

End Use: Consumers
Exposure routes: Skin contact
Potential health effects: Long-term exposure
Value: 62 mg/kg

End Use: Consumers
Exposure routes: Inhalation
Potential health effects: Long-term exposure
Value: 200 mg/m³

End Use: Consumers
Exposure routes: Ingestion
Potential health effects: Long-term exposure
Value: 62 mg/kg

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butanone

: End Use: Workers

Exposure routes: Skin contact

Potential health effects: Long-term systemic effects

Value: 1161 mg/kg

End Use: Workers

Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 600 mg/m³

End Use: Consumers

Exposure routes: Skin contact

Potential health effects: Long-term systemic effects

Value: 412 mg/kg

End Use: Consumers

Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 106 mg/m³

End Use: Consumers

Exposure routes: Ingestion

Potential health effects: Long-term systemic effects

Value: 31 mg/kg

iso-butanol

: End Use: Workers

Exposure routes: Inhalation

Potential health effects: Long-term local effects

Value: 310 mg/m³

End Use: Consumers

Exposure routes: Ingestion

Potential health effects: Long-term systemic effects

Value: 25 mg/kg

End Use: Consumers

Exposure routes: Inhalation

Potential health effects: Long-term local effects

Value: 55 mg/m³

cyclohexanone

: End Use: Workers

Exposure routes: Inhalation

Potential health effects: Short-term exposure, Systemic effects

Value: 80 mg/m³

End Use: Workers

Exposure routes: Skin contact

Potential health effects: Short-term exposure, Systemic effects

Value: 4 mg/kg

End Use: Workers

Exposure routes: Inhalation

Potential health effects: Short-term exposure, Local effects

Value: 80 mg/m³

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End Use: Workers
Exposure routes: Skin contact
Potential health effects: Long-term exposure, Systemic effects
Value: 4 mg/kg

End Use: Workers
Exposure routes: Inhalation
Potential health effects: Long-term exposure, Systemic effects
Value: 40 mg/m³

End Use: Workers
Exposure routes: Inhalation
Potential health effects: Long-term exposure, Local effects
Value: 40 mg/m³

End Use: Consumers
Exposure routes: Skin contact
Potential health effects: Short-term exposure, Systemic effects
Value: 1 mg/kg

End Use: Consumers
Exposure routes: Inhalation
Potential health effects: Short-term exposure, Systemic effects
Value: 20 mg/m³

End Use: Consumers
Exposure routes: Ingestion
Potential health effects: Short-term exposure, Systemic effects
Value: 1,5 mg/kg

End Use: Consumers
Exposure routes: Inhalation
Potential health effects: Short-term exposure, Local effects
Value: 40 mg/m³

End Use: Consumers
Exposure routes: Skin contact
Potential health effects: Long-term exposure, Systemic effects
Value: 1 mg/kg

End Use: Consumers
Exposure routes: Inhalation
Potential health effects: Long-term exposure, Systemic effects
Value: 10 mg/m³

End Use: Consumers
Exposure routes: Ingestion
Potential health effects: Long-term exposure, Systemic effects
Value: 1,5 mg/kg

End Use: Consumers
Exposure routes: Inhalation
Potential health effects: Local effects
Value: 20 mg/m³

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Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Xylene, mixture of isomers : Fresh water
Value: 0,327 mg/l
Marine water
Value: 0,327 mg/l
Fresh water sediment
Value: 12,46 mg/kg
Marine sediment
Value: 12,46 mg/kg
Soil
Value: 2,31 mg/kg
Sewage treatment plant
Value: 6,58 mg/l
Intermittent releases
Value: 0,327 mg/l

acetone : Fresh water
Value: 10,6 mg/l
Marine water
Value: 1,06 mg/l
Fresh water sediment
Value: 30,4 mg/kg
Marine sediment
Value: 3,04 mg/kg
Soil
Value: 29,5 mg/kg
Intermittent releases
Value: 21 mg/l
Sewage treatment plant
Value: 19,5 mg/l

butanone : Fresh water sediment
Value: 284,74 mg/kg
Marine sediment
Value: 2847 mg/kg
Soil
Value: 22,5 mg/kg
Oral
Value: 1000 mg/kg
Fresh water
Value: 55,8 mg/l

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	Intermittent releases Value: 55,8 mg/l
	Sewage treatment plant Value: 709 mg/l
<u>iso-butanol</u>	: Fresh water Value: 0,4 mg/l
	Marine water Value: 0,04 mg/l
	Fresh water sediment Value: 1,52 mg/kg
	Marine sediment Value: 0,152 mg/kg
	Soil Value: 0,0699 mg/kg
	Sewage treatment plant Value: 10 mg/l
	Intermittent releases Value: 11 mg/l
cyclohexanone	: Fresh water Value: 0,0329 mg/l
	Marine water Value: 0,0329 mg/l
	Fresh water sediment Value: 0,0951 mg/kg
	Marine sediment Value: 0,0512 mg/kg
	Soil Value: 0,0143 mg/kg
	Sewage treatment plant Value: 10 mg/l
	Intermittent releases Value: 1 mg/l

8.2 Exposure Controls

Engineering Measures

- Use with adequate ventilation.

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Personal Protective Equipment



- Eye Protection** : Safety glasses with side-shields conforming to AS/NZS 1337.1
Ensure that eyewash stations and safety showers are close to the workstation location.
Do not wear contact lenses.
Tightly fitting safety goggles
- Hand Protection Material** : Polyvinyl alcohol or nitrile- butyl-rubber gloves complying with AS/NZS 2161.10:2005
Remarks : Protective gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
- Skin and Body Protection**: Remove and wash contaminated clothing before re-use.
Choose body protection according to the amount and concentration of the dangerous substance at the workplace.
- Respiratory Protection** : In the case of vapour formation use a respirator with an approved filter.
Respiratory protection complying with AS/NZS 1715:2009
Filter Type : Organic vapour type (A)

Hygiene measures

- When using do not eat or drink.
- When using do not smoke.
- Wash hands before breaks and at the end of workday.

SECTION 9: Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Appearance	: Aerosol	Melting Point/Freezing Point	: lower - 15°C
Colour	: Dark Red	Initial Boiling Point	: <35°C
Odour	: Characteristic	Upper Explosion Limit	: No data available
pH	: N/A	Lower Explosion Limit	: No data available
Flash Point	: <-1°C	Relative Vapour Density	: lower 1 (Air=1)
Density	: 0.76 g/ml	Water Solubility	: No data available
Flammability	: Extremely flammable aerosol	Auto-ignition Temperature	: >250°C

9.2 Other Information: No data available

SECTION 10: Stability and Reactivity

10.1 Reactivity : Stable under recommended storage conditions.

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10.2 Chemical Stability : No decomposition if stored and applied as directed.

10.3 Possibility of Hazardous Reactions

Hazardous Reactions : Stable under recommended storage conditions.

10.4 Conditions to Avoid : Keep away from open flames, hot surfaces and sources of ignition.

10.5 Hazardous Decomposition Products:

Materials to Avoid : Strong acids and strong bases
Strong oxidizing agents
Strong reducing agents

10.6 Hazardous Decomposition Products:

- Carbon dioxide (CO₂) in a fire.
- Carbon monoxide (CO) in a fire.
- Nitrogen oxides (NO_x) in a fire.
- Dense black smoke.

SECTION 11: Toxicological Information

11.1 Information on Toxicological Effects

Acute Toxicity

Product:

Acute oral toxicity : Acute toxicity estimate: 2.000 mg/kg
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: >20 mg/l
Exposure time: 4 hr
Test atmosphere: vapour
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate>2.000 mg/kg
Method: Calculation method

Acute toxicity (other routes: See section 2.1
of administration)

Components:

Xylene, mixture of isomers:

Acute oral toxicity : LD50 (Rat): 4.300 mg/kg
Method: EC Directive 92/69/EEC B.1 Acute toxicity (Oral)
GLP: no

Acute dermal toxicity : LD50 (Rabbit): > 4.200 mg/kg
GLP: No information available

butanone:

Acute oral toxicity : LD50 (Rat, male and female): > 2.000 mg/kg
Method: OECD Test Guideline 423
GLP: yes

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Iso-butanol:

Acute oral toxicity : LD50 (Rat, male): > 2.830 mg/kg
Method: OECD Test Guideline 401
GLP: yes

Acute dermal toxicity : LD50 (Rabbit, male): > 2.000 mg/kg
Method: OECD Test Guideline 402
GLP: yes

Cyclohexanone:

Acute oral toxicity : LD50 (Rat): > 1.890 mg/kg

Skin Corrosion / Irritation

Product:

Remarks: No data available

Components:

butanone:

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

iso-butanol:

Species: Rabbit
Result: Skin irritation

cyclohexanone:

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

Serious Eye Damage/ Eye Irritation

Product:

Remarks: No data available.

Components:

acetone:

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

Iso-butanol:

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

cyclohexanone:

Species: Rabbit

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

Respiratory or Skin Sensitisation

Components:

butanone:

Test Type: Buehler Test
Exposure routes: Dermal
Species: Guinea pig
Method: OECD Test Guideline 406
Result: Does not cause sensitisation.
GLP: yes

Iso-butanol:

Test Type: Maximisation Test
Exposure routes: Dermal
Species: Guinea pig
Method: OECD Test Guideline 406
Result: Does not cause sensitisation.

Germ Cell Mutagenicity

Components:

Hydrocarbons, C3-4; Petroleum gas:

Germ cell mutagenicity-
Assessment : Classified based on 1,3-butadiene content < 0.1% (Regulation
(EC) 1272/2008, Annex VI, Part 3, Note K)

Carcinogenicity

Components:

Hydrocarbons, C3-4; Petroleum gas:

Carcinogenicity-Assessment : Classified based on 1,3-butadiene content < 0.1% (Regulation
(EC) 1272/2008, Annex VI, Part 3, Note K)

Reproductive Toxicity

STOT – single exposure
STOT – repeated exposure

Repeated Dose Toxicity

Product:

Remarks: No data available

Aspiration Toxicity

Components:

acetone:

No aspiration toxicity classification

Iso-butanol:

No aspiration toxicity classification

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SECTION 12: Ecological Information

12.1 Toxicity

Components:

Xylene, mixture of isomers:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1 mg/l
Exposure time: 24 hr

Test type: Immobilization

Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Selenastrum capricornutum (green algae)): 2,2 mg /l

Exposure time: 72 hr

Test Type: static test

Method: OECD Test Guideline 201

GLP: yes

: NOEC (Pseudokirchneriella subcapitata (green algae)): 0,44 mg/l

Exposure time: 72 hr

Test Type: Growth inhibition

Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity) : NOEC: > 1,3 mg/l
Exposure time: 56 d)
Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity): NOEC: 1,17 mg/l
Exposure time: 7 d
Species: Daphnia sp. (water flea)

NOEC: 0,96 mg/l

Exposure time: 7 d

Species: Daphnia sp. (water flea)

butanone:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 2.993 mg/l
Exposure time: 96 hr
Test Type: static test
Method: OECD Test Guideline 203
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 308 mg/l
Exposure time: 48 hr
Test Type: static test
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae : ErC50 (Selenastrum capricornutum (green algae)): 2.029 mg/l
Exposure time: 96 hr
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes

iso-butanol:

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Toxicity to fish	: LC50 (Pimephales promelas (fathead minnow)): 1.430 mg/l Exposure time: 96 hr
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia pulex (Water flea)): 1.100 mg/l Exposure time: 48 hr Test Type: static test
Toxicity to algae	: ErC50 (Pseudokirchneriella subcapitata (green algae)): 1.799 mg/l Exposure time: 72 hr Method: OECD Test Guideline 201 GLP: yes
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC: 20 mg/l Exposure time: 21 d End point: Reproduction Species: Daphnia magna (Water flea) Test Type: semi-static test
cyclohexanone: Toxicity to algae	: ErC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l Exposure time: 72 hr Test Type: static test Method: OECD Test Guideline 201 GLP: yes

12.2 Persistence and Degradability

Components:

Xylene, mixture of isomers:

Biodegradability : Test Type: aerobic
Result: Readily biodegradable.
Method: OECD Test Guideline 301F
GLP: yes

butanone:

Biodegradability : Test Type: aerobic
Result: Readily biodegradable.
Method: OECD Test Guideline 301D
GLP: yes

iso-butanol:

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

12.3 Bioaccumulative Potential

Product:

Bioaccumulation : Remarks: This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT). This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB)

Components:

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Xylene, mixture of isomers:

Bioaccumulation : Species: Oncorhynchus mykiss (rainbow trout)
Exposure time: 56 d
Bioconcentration factor (BCF): 25,9
GLP: no

Partition coefficient : Pow: 3,2 (20 °C)
n-octanol/water pH: 7

butanone:

Partition coefficient : log Pow: 0,3 (40 °C)
n-octanol/water pH: 7
Method: OECD Test Guideline 117
GLP: yes

iso-butanol:

Partition coefficient : log Pow: 1
n-octanol/water Method: OECD Test Guideline 117
GLP: yes

12.4 Mobility in Soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Component:

dimethyl ether:

Global warming potential 100-year global warming potential: 1
Further information: Based on the Fourth Assessment Report adopted by the Intergovernmental Panel on Climate Change.
Regulation: Regulation 517/2014 on Fluorinated Greenhouse Gasses Annex 4 - Method of Calculating the Total GWP of a Mixture

SECTION 13: Disposal Considerations

13.1 Waste Treatment Methods

Product : Dispose of in accordance with the Australian regulations on waste and hazardous waste.
Do not dispose of with domestic refuse.
Container hazardous when empty.
The product should not be allowed to enter drains, water courses or the soil.
Can be incinerated, when in compliance with local regulations.

Contaminated Packaging : Empty spray cans to be disposed as per local regulations.

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SECTION 14: Transport Information

Labels Required



HAZCHEM:
2Y (ADG7)

ADG7 Land Transport (Road and Rail):

Classified as Dangerous Goods by the criteria of the Australian Code for the Transport of Dangerous Goods by Road and Rail and the New Zealand NZS5433: Transport of Dangerous Goods on Land.

Dangerous Goods Class : 2.1 Flammable Gas, Aerosol
UN No. : 1950
Packing Group : Not assigned by regulation

Proper Shipping Name : UN1950 AEROSOLS

Air Transport (IATA):

Classified as Dangerous Goods by the criteria of the Air Transport Association (IATA) Dangerous Goods Regulation for transport by air.

Dangerous Goods Class : 2.1 Flammable Gas, Aerosol
UN No. : 1950
Packing Group : Not assigned by regulation

Proper Shipping Name : UN1950 AEROSOLS

Maritime Transport (IMDG)

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG) for transport by sea.

Dangerous Goods Class : 2.1 Flammable Gas, Aerosol
UN No. : 1950
Packing Group : Not assigned by regulation

Proper Shipping Name : UN1950 AEROSOLS

Marine pollutant : yes
EmS Code : F-D, S-U

SECTION 15: Regulatory Information

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15.1 Safety, Health and Environmental Regulations / Legislation Specific for the Substance or Mixture

National:

SUSMP This product is classified as Schedule 5 (S5) Standard for the Uniform Scheduling of Medicines and Poisons.

AICS All components are listed on the Australian Inventory of Chemical Substances.

International:

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Hydrocarbons, C3-4; Petroleum gas

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

15.2 Chemical Safety Assessment

Not applicable

SECTION 16: Other Information

The information sourced for the preparation of this document was prepared by competent technical personnel and it was correct and accurate to the best of our knowledge. The document represents the commitment to responsibilities surrounding the supply of this product, undertaken in good faith.

This document should be taken as a safety guide for the product and its recommended uses, but it is in no way an absolute authority. No warranty or guarantee, express or implied, is made regarding performance, stability, or otherwise. This information is not intended to be all-inclusive as to the manner and conditions of use, handling, and storage. Other factors may involve other or additional safety or performance considerations.

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Acronyms

ADG7	:	Australian Dangerous Goods Code, Edition 7
AICS	:	Australian Inventory of Chemical Substances
AS/NZS	:	Australian/New Zealand Standards
BCF	:	Bioconcentration factor
CAS	:	Chemical Abstracts Service (division of the American Chemical Society) (USA)
EC	:	European Commission
EC50	:	Half maximal effective concentration
EmS	:	Emergency Response Procedures for Ships
ErC50	:	Concentration of test substance which result in a 50% reduction in grow rate
GLP	:	Good Laboratory Practice
GWP	:	Global Warming Potential
IATA	:	International Air Transport Association
IMDG	:	International Maritime Dangerous Goods Code
LC50	:	Lethal Concentration, 50%
LD50	:	Lethal dose, 50%
NOEC	:	No Observed Effect Concentration
OECD	:	Organization for Economic Co-operation and Development
OSHA	:	Occupation Safety and Health Administration (USA)
PBT	:	Persistent, Bioaccumulative and Toxic
REACH	:	Registration, Evaluation, Authorization and Restriction of Chemicals (Europe)
STEL	:	Short – Term Exposure Limit
STOT RE	:	Specific target organ toxicity – repeated exposure
STOT SE	:	Specific target organ toxicity – single exposure
SUSMP	:	Standard for the Uniform Scheduling of Medicines and Poisons
TWA	:	Time Weighted Average
UN	:	United Nations
vPvB	:	very Persistent and very Bio-Accumulative Substances
WHS	:	Work Health and Safety

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End