



airandé

SUPERIOR DISINFECTION SOLUTIONS

MSDS

Airandé Solution 7P (EN)

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H2O2 SOLUTION 7P

Revision Date : 25.01.2018

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

- Trade name H2O2 SOLUTION 7P

1.2 Relevant identified uses of the substance or mixture and uses advised

against

Uses of the Substance/Mixture

- Biocides

1.3 Details of the supplier of the safety data sheet

Company

Airandé Pty Limited
Suite 1a, Level 2, 802 Pacific Highway
GORDON NSW 2072 AUSTRALIA
Tel: +61 2 9844 5826

E-mail address

office@airande.global

1.4 Emergency telephone number

+61 131126

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (Regulation (EC) No 1272/2008)

|| Skin irritation, Category 2
|| Serious eye damage, Category 1
|| Chronic aquatic toxicity, Category 2

H315: Causes skin irritation.
H318: Causes serious eye damage.
H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Regulation (EC) No 1272/2008

|| • Index-No. 008-003-00-9
|| • Index-No. 607-094-00-8
|| • Index-No. 607-002-00-6

hydrogen peroxide (7 %)
peracetic acid (0.4 %)
acetic acid (5 %)

Pictogram



Signal word

■ - Danger

Hazard statements

|| - H318 Causes serious eye damage.
|| - H315 Causes skin irritation.
|| - H411 Toxic to aquatic life with long lasting effects.

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Precautionary statements
Prevention

- P273
- P280

Avoid release to the environment.
 Wear eye protection/ face protection.

Response

- P302 + P352
- P305 + P351 + P338
- P310

IF ON SKIN: Wash with plenty of water.
 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.


2.3 Other hazards which do not result in classification
Results of PBT and vPvB assessment

- 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).

SECTION 3: Composition/information on ingredients
3.1 Substance

- Not applicable, this product is a mixture.

3.2 Mixture

- Synonyms PAA, Peroxyacetic acid, Peroxyethanoic acid

Information on Components and Impurities

Chemical Name	Identification number	Classification Regulation (EC) No 1272/2008	Concentration [%]
hydrogen peroxide	Index-No. : 008-003-00-9 CAS-No. : 7722-84-1 EINECS-No. : 231-765-0 Registration number: 01-2119485845-22-xxxx	Oxidizing liquids , Category 1 ; H271 Acute toxicity , Category 4 ; H302 Acute toxicity , Category 4 ; H332 Skin corrosion , Category 1A ; H314 Serious eye damage , Category 1 ; H318 Specific target organ toxicity - single exposure , Category 3 ; H335 (Respiratory system) Chronic aquatic toxicity , Category 3 ; H412	>= 5 - < 8
acetic acid	Index-No. : 607-002-00-6 CAS-No. : 64-19-7 EINECS-No. : 200-580-7 Registration number: 01-2119475328-30-xxxx	Serious eye damage , Category 1 ; H318 Flammable liquids , Category 3 ; H226 Skin corrosion , Category 1A ; H314	>= 5 - < 10
peracetic acid	Index-No. : 607-094-00-8 CAS-No. :	Flammable liquids , Category 3 ; H226 Organic peroxides , Type D ; H242 Acute toxicity , Category 4 ; H302	>= 0.3 - < 0.5

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	<p>79-21-0 EINECS-No. : 201-186-8</p>	<p>Acute toxicity , Category 4 ; H332 Acute toxicity , Category 4 ; H312 Skin corrosion , Category 1A ; H314 Serious eye damage , Category 1 ; H318 Specific target organ toxicity - single exposure , Category 3 ; H335 (Respiratory system) Acute aquatic toxicity , Category 1 ; H400 Chronic aquatic toxicity , Category 1 ; H410</p>	
<p>Registration number: 01-2119531330-56-xxxx</p>			

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

In case of inhalation

- Move to fresh air.
- Oxygen or artificial respiration if needed.
- Victim to lie down in the recovery position, cover and keep him warm.
- Call a physician immediately.

In case of skin contact

- Take off contaminated clothing and shoes immediately.
- Wash off immediately with plenty of water.
- Keep warm and in a quiet place.
- Call a physician or poison control centre immediately.
- Wash contaminated clothing before re-use.

In case of eye contact

- Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
- In the case of difficulty of opening the lids, administer an analgesic eye wash (oxybuprocaine).
- Call a physician or poison control centre immediately.
- Take victim immediately to hospital.

In case of ingestion

- Call a physician or poison control centre immediately.
- Take victim immediately to hospital.
- If swallowed, rinse mouth with water (only if the person is conscious).
- Do NOT induce vomiting.
- Artificial respiration and/or oxygen may be necessary.

4.2 Most important symptoms and effects, both acute and

delayed In case of inhalation

Symptoms

- Nose and throat irritation
- Risk of: Lung oedema

Effects

- Severe respiratory irritant
- Repeated or prolonged exposure***
- Nose bleeding
- Risk of chronic bronchitis

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In case of skin contact

Symptoms

- Irritation
- Redness
- Swelling of tissue

In case of eye contact

Symptoms

- Redness
- Lachrymation
- Swelling of tissue
- Burn

Effects

- Severe eye irritation
- May cause irreversible eye damage.

In case of ingestion

Symptoms

- Severe irritation
- Nausea
- Abdominal pain
- Bloody vomiting
- Diarrhoea

Effects

- Risk of respiratory disorder

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician

- Take victim immediately to hospital.
- Immediate medical attention is required.
- Consult with an ophthalmologist immediately in all cases.
- Burns must be treated by a physician.
- If swallowed
- Avoid gastric lavage (risk of perforation).
- Keep under medical supervision for at least 48 hours.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

- Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Water
- Water spray

Unsuitable extinguishing media

- None

5.2 Special hazards arising from the substance or mixture

- May intensify fire; oxidiser.
- Oxygen released in thermal decomposition may support combustion

5.3 Advice for firefighters

Special protective equipment for firefighters

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- In the event of fire, wear self-contained breathing apparatus.
- Use personal protective equipment.
- Wear chemical resistant oversuit
- Cool containers/tanks with water spray.
- 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

Advice for non-emergency personnel

- Evacuate personnel to safe areas.
- Keep people away from and upwind of spill/leak.

Advice for emergency responders

- Use personal protective equipment.
- Drying of this product on clothing or combustible materials may cause fire.
- Keep wetted with water.
- Prevent further leakage or spillage.
- Keep away from incompatible products

6.2 Environmental precautions

- Discharge into the environment must be avoided.
- If the product contaminates rivers and lakes or drains inform respective authorities.
- Prevent product from entering sewage system.

6.3 Methods and materials for containment and cleaning up

- Dam up.
- Soak up with inert absorbent material.
- Prevent product from entering sewage system.
- Keep in suitable, closed containers for disposal.
- Keep in properly labelled containers.

6.4 Reference to other sections

- Refer to protective measures listed in sections 7 and 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Use only in well-ventilated areas.
- Before all operations, passivate the piping circuits and vessels according to the procedure recommended by the producer.
- Use only clean and dry utensils.
- Never return unused material to storage receptacle.
- May not get in touch with:
 - Organic materials
- Keep away from heat.
- Keep away from incompatible products

Hygiene measures

- Ensure that eyewash stations and safety showers are close to the workstation location.
- Take off contaminated clothing and shoes immediately.
- Wash contaminated clothing before re-use.
- When using do not eat, drink or smoke.
- Wash hands before breaks and at the end of workday.
- Handle in accordance with good industrial hygiene and safety practice.

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7.2 Conditions for safe storage, including any

incompatibilities Technical measures/Storage conditions

- Keep in properly labelled containers.
- Keep tightly closed in a dry, cool and well-ventilated place.
- Keep in a banded area.
- Electrical equipment should be protected to the appropriate standard.
- Keep away from incompatible products
- Store in original container.
- Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Packaging material

Suitable material

- Stainless steel cleaned and passivated
- Approved grades of HDPE.

7.3 Specific end use(s)

- Contact your supplier for additional information

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with workplace occupational exposure limits

Components	Value type	Value	Basis
hydrogen peroxide	TWA	1 ppm 1.4 mg/m3	UK. EH40 WEL - Workplace Exposure Limits
	STEL	2 ppm 2.8 mg/m3	UK. EH40 WEL - Workplace Exposure Limits
hydrogen peroxide	TWA	1 ppm	USA. ACGIH Threshold Limit Values (TLV)
acetic acid	TWA	10 ppm 25 mg/m3	Europe. Commission Directive 91/322/EEC on establishing indicative limit values
	Indicative		
acetic acid	TWA	10 ppm	USA. ACGIH Threshold Limit Values (TLV)
acetic acid	STEL	15 ppm	USA. ACGIH Threshold Limit Values (TLV)
peracetic acid	STEL	0.4 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Form of exposure : Inhalable fraction and vapor	

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Derived No Effect Level (DNEL) / Derived minimal effect level (DMEL)

Product name	Population	Route of exposure	Potential health effects	Exposure time	Value	Remarks
hydrogen peroxide	Workers	Inhalation	Local effects	Acute	3 mg/m ³	
	Workers	Inhalation	Local effects	Long term	1.4 mg/m ³	
	Consumers	Inhalation	Local effects	Acute	1.93 mg/m ³	
	Consumers	Inhalation	Local effects	Long term	0.21 mg/m ³	
acetic acid	General population	Inhalation	Local effects	Acute	25 mg/m ³	
	General population	Inhalation	Systemic effects	Long term	25 mg/m ³	
	General population	Oral	Systemic effects	Long term	7.20 µg/kg bw/day	
peracetic acid	Workers	Inhalation	Systemic effects	Acute	0.6 mg/m ³	
	Workers	Inhalation	Systemic effects	Long term	0.6 mg/m ³	
	Workers	Inhalation	Local effects	Acute	0.6 mg/m ³	
	Workers	Inhalation	Local effects	Long term	0.6 mg/m ³	
	Workers	Dermal	Local effects	Acute	0.12 %	
	Consumers	Inhalation	Systemic effects	Acute	0.6 mg/m ³	
	Consumers	Inhalation	Systemic effects	Long term	0.6 mg/m ³	
	Consumers	Inhalation	Local effects	Long term	0.6 mg/m ³	
	Consumers	Inhalation	Local effects	Acute	0.3 mg/m ³	
	General population	Dermal	Local effects	Acute	0.12 %	

Predicted No Effect Concentration (PNEC)

Product name	Compartment	Value	Remarks
hydrogen peroxide	Fresh water	0.0126 mg/l	
	Marine water	0.0126 mg/l	
	Sewage treatment plant	4.66 mg/l	
	Intermittent use/release	0.0138 mg/l	
	Fresh water sediment	0.047 mg/kg	
	Marine sediment	0.047 mg/kg	
	Soil	0.0023 mg/kg	

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peracetic acid	Fresh water	0.000224 mg/l	
	Sewage treatment plant	0.051 mg/l	
	Fresh water sediment	0.00018 mg/kg	
	Soil	0.320 mg/kg	

8.2 Exposure controls

Control measures

Engineering measures

- Provide adequate ventilation.
- Apply technical measures to comply with the occupational exposure limits.

Individual protection measures

Respiratory protection

- In case of insufficient ventilation, wear suitable respiratory equipment.
- Respirator with a vapour filter (EN 141)
- Recommended Filter type:
- ABEK-P2

Hand protection

- Impervious gloves
- Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Suitable material

- butyl-rubber
- Break through time: > 480 min
- Glove thickness: >= 0.4 mm

Eye protection

- Chemical resistant goggles must be worn.
- If splashes are likely to occur, wear:
- Tightly fitting safety goggles
- Face-shield

Skin and body protection

- Apron/boots of butyl rubber if risk of splashing.

Hygiene measures

- Ensure that eyewash stations and safety showers are close to the workstation location.
- Take off contaminated clothing and shoes immediately.
- Wash contaminated clothing before re-use.
- When using do not eat, drink or smoke.
- Wash hands before breaks and at the end of workday.
- Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls

- Dispose of rinse water in accordance with local and national regulations.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

<u>Appearance</u>	<u>Physical state:</u> liquid <u>Colour:</u> colourless
<u>Odour</u>	pungent
<u>Odour Threshold</u>	no data available
<u>pH</u>	acidic <u>pKa:</u> 8.2 (25 °C)
<u>Melting point/range</u>	ca. -42 °C Method: Calculation method
<u>Boiling point/boiling range</u>	ca. 105 °C Method: Calculation method
<u>Flash point</u>	74 - 83 °C Method: closed cup
<u>Evaporation rate (Butylacetate =</u>	no data available
<u>1) Flammability (solid, gas)</u>	Not applicable
<u>Flammability (liquids)</u>	The product is not flammable., Heating may cause a fire.
<u>Flammability/Explosive limit</u>	<u>Explosiveness:</u> Not explosive
<u>Auto-ignition temperature</u>	no data available
<u>Vapour pressure</u>	no data available
<u>Vapour density</u>	no data available
<u>Density</u>	<u>Bulk density:</u> Not applicable
<u>Solubility</u>	<u>Relative density:</u> 1.1 <u>Water solubility :</u> completely miscible <u>Solubility in other solvents:</u> common organic solvents : soluble
<u>Partition coefficient: n-octanol/water</u>	Aromatic solvents : slightly soluble
<u>Thermal decomposition</u>	log Pow: -1.25 Method: Calculation method
<u>Viscosity</u>	log Pow: -0.52 Method: measured value
<u>Explosive properties</u>	
<u>Oxidizing properties</u>	>= 60 °C Self-Accelerating decomposition temperature (SADT)

9.2 Other information

Henry's Constant no data available

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no data available

Oxidizing properties

22 Pa.m3/mol
not significant, Air, Volatility

SECTION 10: Stability and reactivity

10.1 Reactivity

- Decomposes on heating.
- Heating may cause a fire.
- Potential for exothermic hazard

10.2 Chemical stability

- Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

- Contact with combustible material may cause fire., Contact with flammables may cause fire or explosions., Risk of explosion if heated under confinement., Fire or intense heat may cause violent rupture of packages.

10.4 Conditions to avoid

- Contamination
- To avoid thermal decomposition, do not overheat.

10.5 Incompatible materials

- Acids
- Bases
- Metals
- Heavy metal salts
- Powdered metal salts
- Reducing agents
- Organic materials
- Flammable materials

10.6 Hazardous decomposition products

- Oxygen

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity LD50 : > 300 mg/kg - Rat
Test substance: 5 % PAA mixture

Acute inhalation toxicity LC50 - 4 h (aerosol) 4 mg/l - Rat
Test substance: 5 % PAA mixture

Acute dermal toxicity LD50 1,147 mg/kg - Rabbit
Test substance: 5 % PAA mixture

Acute toxicity (other routes of administration) no data available

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye irritation Rabbit
Risk of serious damage to eyes.

Respiratory or skin sensitisation Guinea pig
Did not cause sensitization on laboratory animals.

Toxicity for reproduction and development

Toxicity to reproduction/Fertility No toxicity to reproduction

Developmental Toxicity/Teratogenicity Rat
Test substance: 15 % PAA mixture
No effect observed on development
Published data

STOT

STOT - single exposure May cause respiratory irritation.

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

Ingestion 13 weeks - Rat
NOAEL: 0.75 mg/kg
Test substance: Peracetic acid

Oral 90-day - Mouse
NOAEL: 100 ppm
Test substance: Hydrogen peroxide

Inhalation 90-day - Rat
NOAEL: 7 ppm
Test substance: Hydrogen peroxide

Experience with human exposure

Experience with human exposure : no data available

Inhalation

Experience with human exposure : no data available

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Ingestion
CMR effects

Carcinogenicity

acetic acid

No evidence of carcinogenicity in animal studies.

Mutagenicity

acetic acid

Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Aspiration toxicity

Not applicable

Further information

no data available

SECTION 12: Ecological information

12.1 Toxicity

Aquatic Compartment

Acute toxicity to fish

LC50 - 96 h : 1.1 mg/l - Lepomis macrochirus (Bluegill sunfish)

Acute toxicity to daphnia and other aquatic invertebrates.

EC50 - 48 h : 0.73 mg/l - Daphnia magna (Water flea)

Toxicity to aquatic plants

EC50 - 96 h : 0.16 mg/l - Pseudokirchneriella subcapitata (green algae)

Toxicity to microorganisms

no data available

Chronic toxicity to fish

NOEC: 0.00094 mg/l - 33 d - Danio rerio (zebra fish)
Early-life Stage
Test substance: Peracetic acid

Chronic toxicity to daphnia and other aquatic invertebrates.

12.4 Mobility in soil

Adsorption potential (Koc)

12.2 Persistence and degradability

Biodegradation

Biodegradability

Degradability assessment

acetic acid

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water acetic acid

Bioconcentration factor (BCF)

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no data available

The product is considered to be rapidly degradable in the environment

Not potentially bioaccumulable

Does not bioaccumulate.

aerobic
Biodegradable.

Effects on waste water treatment plants

Inhibitor

Method: Abiotic degradation

|| Water
|| soluble
|| mobile

Soil/sediments
non-significant adsorption

Known distribution to environmental compartments

|| acetic acid

Ultimate destination of the product : Water

Structure-activity relationship (SAR)

Air

Structure-activity relationship (SAR)

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12.5 Results of PBT and vPvB assessment 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).

12.6 Other adverse effects no data available

Ecotoxicity assessment

Acute aquatic toxicity Information refers to the main component.

Chronic aquatic toxicity Information refers to the main component.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product Disposal

- Contact manufacturer.
- Contact waste disposal services.
- In accordance with local and national regulations.

Advice on cleaning and disposal of packaging

- Empty containers.
- Clean container with water.
- Dispose of rinse water in accordance with local and national regulations.
- Where possible recycling is preferred to disposal or incineration.
- In accordance with local and national regulations.

SECTION 14: Transport information

ADR

14.1 UN number UN 3149

14.2 Proper shipping name HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED

14.3 Transport hazard class 5.1
Subsidiary hazard class: 8
Label(s): 5.1 (8)

14.4 Packing group
Packing group II
Classification Code OC1

14.5 Environmental hazards YES

14.6 Special precautions for user
Hazard Identification Number: 58
Tunnel restriction code (E)

For personal protection see section 8.

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RID

14.1 UN number	UN 3149
14.2 Proper shipping name	HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED
14.3 Transport hazard class Subsidiary hazard class: Label(s):	5.1 8 5.1 (8)
14.4 Packing group Packing group Classification Code	II OC1
14.5 Environmental hazards	YES
14.6 Special precautions for user Hazard Identification Number:	58
For personal protection see section 8.	

IMDG

14.1 UN number	UN 3149
14.2 Proper shipping name	HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED
14.3 Transport hazard class Subsidiary hazard class: Label(s):	5.1 8 5.1 (8)
14.4 Packing group Packing group	II
14.5 Environmental hazards Marine pollutant	YES
14.6 Special precautions for user EmS	F-H , S-Q
For personal protection see section 8.	
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	no data available

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IATA

14.1 UN number	UN 3149
14.2 Proper shipping name	HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE STABILIZED
14.3 Transport hazard class Subsidiary hazard	5.1
class: Label(s):	8 5.1 (8)
14.4 Packing group	II
Packing group	
Packing instruction (cargo aircraft)	554
Max net qty/pkg	5.00 L
Packing instruction (passenger aircraft)	550
Max net qty/pkg	1.00 L
14.5 Environmental hazards	YES
14.6 Special precautions for user	
For personal protection see section 8.	

ADN

14.1 UN number	UN 3149
14.2 Proper shipping name	HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED
14.3 Transport hazard class Subsidiary hazard	5.1
class: Label(s):	8 5.1 (8)
14.4 Packing group	II
Packing group	
Classification Code	OC1
14.5 Environmental hazards	YES
14.6 Special precautions for user	
Hazard Identification Number:	58
For personal protection see section 8.	

Note: The above regulatory prescriptions are those valid on the date of publication of this sheet. Given the possible evolution of transport regulations for hazardous materials, it would be advisable to check their validity with your sales office.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Other regulations

- Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), as amended
- Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, as amended
- Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work, as amended

Notification status

Inventory Information	Status
Mexico INSQ (INSQ)	- Listed on Inventory
New Zealand. Inventory of Chemical Substances	- Listed on Inventory
United States TSCA Inventory	- Listed on Inventory
Canadian Domestic Substances List (DSL)	- Listed on Inventory
Australia Inventory of Chemical Substances (AICS)	- Listed on Inventory
Japan. CSCL - Inventory of Existing and New Chemical Substances	- Listed on Inventory
Korea. Korean Existing Chemicals Inventory (KECI)	- Listed on Inventory
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	- Listed on Inventory
China. Inventory of Existing Chemical Substances in China (IECSC)	- Listed on Inventory
EU. European Registration, Evaluation, Authorisation and Restriction of Chemical (REACH)	- If product is purchased from AER Technologies in Europe it is in compliance with REACH, if not please contact the supplier.

15.2 Chemical Safety Assessment

- no data available

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

- H226 Flammable liquid and vapour.
- H242 Heating may cause a fire.
- H271 May cause fire or explosion; strong oxidiser.
- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.

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- H318 Causes serious eye damage.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.

Key or legend to abbreviations and acronyms used in the safety data sheet

- STEL Short-term exposure limit
- TWA Limit Value - eight hours

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Further information

- Mixture in CLP Format
- This sheet was updated (refer to the date at the top of this page). Subheadings and text which have been modified since the previous version are indicated with two vertical bars.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. Such information is only given as a guidance to help the user handle, use, process, store, transport, dispose and release the product in satisfactory safety conditions and is not to be considered as a warranty or quality specification. It should be used in conjunction with technical sheets but do not replace them. Thus, the information only relates to the designated specific product and may not be applicable if such product is used in combination with other materials or in any other manufacturing process, unless otherwise specifically indicated. It does not release the user from ensuring he is in conformity with all regulations linked to its activity.