

SAFETY DATA SHEET

MICRO
MEASUREMENTS
AVPG Brand

TEC-1 Tetra Etch

ACCORDING TO: CODE OF PRACTICE FOR THE PREPARATION OF SAFETY DATA SHEETS FOR HAZARDOUS CHEMICALS (SAFE WORK AUSTRALIA, 2020) & GHS 7

www.vpgsensors.com

Date of issue: 22/09/2022
Date of First Issue: 22/09/2022
Version: 1.0

SECTION 1: IDENTIFICATION

1.1 GHS Product identifier

Product name TEC-1 Tetra Etch
CAS No. Not applicable - Mixture

1.2 Recommended use of the chemical and restrictions on use

Identified Use(s) Etchant and acids
Uses advised against None Known

1.3 Details of the supplier

Company Identification VISHAY MEASUREMENTS GROUP, INC.
Post Office Box 27777
Raleigh, NC 27611
USA

Telephone +1 919-365-3800
E-mail (competent person) mm.us@vpgsensors.com

Importer/Distributor name, address and telephone number

Name
Company Address
Telephone

1.4 Emergency Phone No.

Emergency Phone No. 1-800-424-9300 (24 hours)
61-290372994 (for spills and releases) CHEMTRAC (24 hours)
Languages spoken English

SECTION 2: HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

2.1.1 In accordance with the Safe Work Australia model Work Health and Safety Regulations (2020) & GHS 7

Flammable liquid - Category 2
Acute toxicity – oral – Category 4
Skin corrosion/irritation - Category 1B
Serious eye damage/ Eye Irritation - Category 1
Acute toxicity – inhalation – Category 4
Specific target organ toxicity - Single exposure - Category 3
Carcinogenicity - Category 2
Reproductive toxicity – Category 1B
Hazardous to the aquatic environment - Acute - Category 1
Hazardous to the aquatic environment - Chronic - Category 1

2.2 GHS label elements, including precautionary statements

Product name TEC-1 Tetra Etch

Hazard Pictogram(s)



Corrosion Health Hazard Exclamation mark Flame Environment

Signal Word(s)

DANGER

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Hazard Statement(s)

H225: Highly flammable liquid and vapour.
H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.
H318: Causes serious eye damage.
H332: Harmful if inhaled.
H335: May cause respiratory irritation.
H351: Suspected of causing cancer.
H360: May damage fertility or the unborn child.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.

Precautionary Statement(s)

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233: Keep container tightly closed.
P260: Do not breathe mist/vapours/spray.
P264: Wash hands and exposed skin thoroughly after handling
P273: Avoid release to the environment.
P280: Wear protective gloves and eye/face protection.
P302+P335+P334: IF ON SKIN: Brush off loose particles from skin. Immerse in cool water.
P303+P361+P353: IF ON SKIN or hair: Take off immediately all contaminated clothing. Rinse skin with water.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P370+P378: In case of fire: Use dry powder, preferably with a nitrogen propellant to extinguish.

Supplemental information

AUH019: May form explosive peroxides

2.3 Other hazards which do not result in classification

Vapours can form explosive mixtures with air. Vapours may cause drowsiness and dizziness.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances - Not applicable.

3.2 Mixtures

GHS Classification

Chemical identity of the substance	Common name(s), synonym(s) of the substance	%W/W	CAS No.	EC No.	Hazard classification
Ethylene glycol dimethyl ether	1,2-Dimethoxyethane; EGDME	70 - 80	110-71-4	203-794-9	Flammable liquid, Category 2 Skin corrosion/irritation, Category 2 Reproductive toxicity, Category 1B Acute toxicity – inhalation – Category 4 AUH019
Naphthalene	-	15 - 25	91-20-3	202-049-5	Acute toxicity – oral –Category 4 Carcinogenicity - Category 2 Specific target organ toxicity - Single exposure- Category 3 Hazardous to the aquatic environment, acute, Category 1

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					Hazardous to the aquatic environment, Chronic, Category 1
Sodium	-	1 - 5	7440-23-5	231-132-9	Water-reactive - Category 1 Serious eye damage/ Eye Irritation - Category 1 Skin corrosion/irritation, Category 1

For full text of H phrases see section 16.

SECTION 4: FIRST AID MEASURES



4.1 Description of necessary first-aid measures

Self-protection of the first aider

Do not breathe vapours excessively. Wear suitable protective clothing. Wear suitable respiratory protective equipment if exposure to high levels of material are likely. Do not use mouth-to-mouth resuscitation.

Inhalation
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Apply artificial respiration only if patient is not breathing or under medical supervision. Call a POISON CENTER/doctor if you feel unwell.

Skin contact
IF ON SKIN: Remove contaminated clothing and wash all affected areas with plenty of water. Contaminated clothing should be thoroughly cleaned. If skin irritation or rash occurs: Get medical advice/attention.

Eye contact
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion
IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration into the lungs. Do not give milk or alcoholic beverages.

4.2 Most important symptoms/effects, acute and delayed

Harmful if swallowed. Causes severe skin burns and eye damage.
Harmful if inhaled. May cause respiratory irritation. Suspected of causing cancer. May damage fertility or the unborn child.

IF IN EYES: Obtain prompt consultation, preferably from an ophthalmologist. Chemical eye burns may require extended irrigation.

IF SWALLOWED: Due to irritant properties, swallowing may result in burns/ulceration of mouth, stomach and lower gastrointestinal tract with subsequent stricture.

4.3 Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically. Due to possible delayed effect of poisoning and for safety reasons, they should be kept under medical observation for at least 48 hours.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Dry powder (Nitrogen propellant). Extinguish preferably with dry chemical, sand, foam or carbon dioxide.

Unsuitable extinguishing media

Do not use water.

5.2 Specific hazards arising from the chemical

Highly flammable liquid and vapour. May decompose in a fire giving off toxic fumes. Carbon dioxide and Carbon monoxide. Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback. May decompose in a fire giving off toxic fumes.: Oxides of carbon, Acrid smoke, Naphthalene, Vinyl methyl ether, Methanol, Sodium methoxide, Hydrogen and

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5.3 Special protective actions for fire-fighters

polycyclic compounds. May form explosive peroxides. Sealed containers may rupture explosively if hot. In contact with water releases flammable gases.

Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Avoid run off to waterways and sewers.

•3WE(3)

5.4 Hazchem Code

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Ensure adequate ventilation. Stop leak if safe to do so. Eliminate all ignition sources if safe to do so. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid all contact. Avoid breathing vapours. Use personal protective equipment as required. See Section: 8.

6.2 Environmental precautions

Avoid release to the environment. Do not allow to enter drains, sewers or watercourses. Spillages or uncontrolled discharges into watercourses must be alerted to the Environment Agency or other appropriate regulatory body.

6.3 Methods and material for containment and cleaning up

Use non-sparking equipment when picking up flammable spill. Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a container for disposal. Suitable containers: Polyethylene or Steel (drums), with a polyethylene liner. Dispose of this material and its container as hazardous waste

See Section: 8,13

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Handle and open container with care. Take precautionary measures against static discharge. Do not use sparking tools. Ensure adequate ventilation. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid all contact. Do not breathe vapour. Use personal protective equipment as required. See Section: 8. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Protect from moisture.

7.2 Conditions for safe storage, including any incompatibilities

Ground/bond container and receiving equipment. Store in a cool/low-temperature, well-ventilated (dry) place away from heat and ignition sources. Keep container tightly closed. Handle and open container with care. Suitable containers: Polyethylene or Steel (drums), with a polyethylene liner. Dispose of this material and its container as hazardous waste. Store contents under: Nitrogen. Protect from moisture.

Keep at temperature not exceeding (°C): 0.

Stable under normal conditions. Keep only in original container.

Strong oxidising agents and Acids. Keep away from moisture.

7.3 Specific end use(s)

See Section: 1.2

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational exposure limits

Chemical name	Synonym(s)	CAS No.	TWA (ppm)	TWA (mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Advisory carcinogen category	Other advisory information	Notes
Naphthalene	-	91-20-3	10	52	15	79	Carc. 2	-	-

Source: Safe Work Australia Workplace Exposure Standards for Airbourne Contaminants (16 December 2019)

Agent [CAS No.]	Time-Weighted Average Limit (TWA)	Short-Term Exposure Limit (STEL) or Ceiling Limit (C)	Notations
Ethylene glycol dimethyl ether [110-71-4]	5 ppm, or 18 mg/m ³	-	Skin

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Source: Ontario Occupational Health and Safety Act, R.R.O. 1990, Reg. 833: Control of Exposure to Biological or Chemical Agents

8.1.2 Biological limit value

Substance	Biological monitoring guidance value	Sampling Time
Polycyclic aromatic hydrocarbons (PAHs)	4 µmol 1-hydroxypyrene/mol creatinine in urine	Post shift

Source: Bmgv: Biological monitoring guidance value (UK HSE EH40)

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Ensure adequate ventilation or use appropriate containment. Atmospheric levels should be controlled in compliance with the occupational exposure limit. Local exhaust recommended. Use non-sparking ventilation systems, approved explosion-proof equipment, and intrinsically safe electrical systems. Guarantee that the eye flushing systems and safety showers are located close to the working place.

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable. Avoid contact with skin, eyes or clothing. Do not breathe vapour. Wash hands before breaks and after work. Keep work clothes separately. Contaminated clothing should be laundered before reuse. Do not eat, drink or smoke at the work place.

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Eye/ face protection



Wear eye protection with side protection (EN166). Wear protective eye glasses for protection against liquid splashes. Recommended: Safety spectacles/goggles/full face shield

Skin protection



Hand protection: Wear impervious gloves (EN374). Gloves should be changed regularly to avoid permeation problems. Breakthrough time of the glove material: refer to the information provided by the gloves' producer. Recommended: Butyl rubber.

Respiratory protection



In case of inadequate ventilation wear respiratory protection. Open system(s): Wear suitable respiratory protective equipment. A suitable mask with filter type A (EN141 or EN405) may be appropriate.

Thermal hazards

not applicable

8.2.3 Environmental exposure controls

Avoid release to the environment. Do not allow to enter drains, sewers or watercourses. Spillages or uncontrolled discharges into watercourses must be alerted to the Environment Agency or other appropriate regulatory body.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES AND SAFETY CHARACTERISTICS

9.1 Basic physical and chemical properties

Physical state
Colour
Odour

Liquid
Green
Naphthalene Odour

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Melting point/freezing point	Not determined
Boiling point or initial boiling point and boiling range	85 °C
Flammability	Highly flammable liquid and vapour.
Lower and upper explosion limit	Flammable Limits (Upper) (%v/v): 1.8 (Air). Flammable Limits (Lower) (%v/v): 10.4 (Air)
Flash point	0.5 °C [Closed cup]
Auto-ignition temperature	192 °C
Decomposition temperature	Not determined
pH	> 12.5 (aqueous)
Kinematic viscosity	Not determined
Solubility	Partially soluble (Water)
Partition coefficient: n-octanol/water (log value)	Not available.
Vapour pressure	48 mm Hg (Mixture)
Density and/or relative density	Not available.
Relative vapour density	3.11 (Air = 1) (Ethylene Glycol Dimethyl Ether)
Particle characteristics	Not applicable - Liquid

9.2 Other information

Evaporation rate	5 (BuAc = 1) (Ethylene Glycol Dimethyl Ether)
Volatile Organic Compound Content	73%
Explosive properties	Can form explosive mixture with air.
Oxidising properties	Not oxidising.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	Stable under normal conditions.
10.2 Chemical stability	Stable under normal conditions.
10.3 Possibility of hazardous reactions	Highly flammable liquid and vapour. Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback.
10.4 Conditions to avoid	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from moisture.
10.5 Incompatible materials	Strong oxidising agents and Acids. Keep away from moisture.
10.6 Hazardous decomposition products	May decompose in a fire giving off toxic fumes. Oxides of carbon, Acrid smoke, Naphthalene, Vinyl methyl ether, Methanol, Sodium methoxide, Hydrogen and polycyclic compounds. Reacts with - Water. Forms sodium hydroxide, naphthalene, polycyclic compounds and hydrogen.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity - Ingestion	Mixture: Acute toxicity – oral – Category 4; H302: Harmful if swallowed.
Naphthalene	Acute toxicity – oral – Category 4; H302: Harmful if swallowed.
	Source: Australia HCIS; EU ECHA registration dossier; EU Harmonised Classification
Acute toxicity - Inhalation	Mixture: Acute toxicity – inhalation – Category 4; H332: Harmful if inhaled. (Vapours)
Ethylene glycol dimethyl ether	Acute toxicity – inhalation – Category 4; H332: Harmful if inhaled.
	Source: Australia HCIS; EU ECHA registration dossier; EU Harmonised Classification
Acute toxicity - Dermal	Based upon the available data, the classification criteria are not met.
Skin corrosion/irritation	Mixture: Skin corrosion/irritation, Category 1B: H314: Causes severe skin burns and eye damage.
Ethylene glycol dimethyl ether	Skin corrosion/irritation, Category 2: H315: Causes skin irritation.
	Irritating to skin. (rabbit) (OECD 404)
	Source: EU ECHA registration dossier; EU Harmonised Classification
Sodium	Skin corrosion/irritation, Category 1B: H314: Causes severe skin burns and eye damage.
	Source: EU ECHA registration dossier; EU Harmonised Classification

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Serious eye damage/irritation	Mixture: Serious eye damage/ Eye Irritation - Category 1; H318: Causes serious eye damage.
Sodium	Serious eye damage/ Eye Irritation - Category 1; H318: Causes serious eye damage. Based upon the available data, the classification criteria are not met.
Respiratory or skin sensitisation	Based upon the available data, the classification criteria are not met.
Germ cell mutagenicity	Based upon the available data, the classification criteria are not met.
Carcinogenicity	Mixture: Carcinogen - Category 2 ;H351: Suspected of causing cancer.
Naphthalene	Carcinogen - Category 2 ;H351: Suspected of causing cancer. LOAEC mg/m ³ (Air): 50. Carcinogenic effect: Positive (Unnamed, 2000)
Reproductive toxicity	Mixture: Reproductive toxicity, Category 1B; H360: May damage fertility or the unborn child. Ethylene Glycol Dimethyl Ether Reproductive toxicity, Category 1B; H360: May damage fertility or the unborn child. Reproductive toxicity: NOEC mg/l 0.019 (OECD 414) Developmental toxicity: NOEC mg/l 0.06 (OECD 414)
STOT - single exposure	Source: EU ECHA registration dossier; EU Harmonised Classification Mixture: Specific target organ toxicity — single exposure, Category 3; H335: May cause respiratory irritation.
Naphthalene	Specific target organ toxicity — single exposure, Category 3; H335: May cause respiratory irritation. Source: Australia HCIS
STOT - repeated exposure	Based upon the available data, the classification criteria are not met.
Aspiration hazard	Based upon the available data, the classification criteria are not met.
Information on likely routes of exposure	
Inhalation	Unlikely – accidental exposure
Ingestion	Unlikely – accidental exposure
Skin contact	Possible – accidental exposure
Eye contact	Unlikely – accidental exposure
Symptoms related to the physical, chemical and toxicological characteristics	Not applicable
Delayed and immediate effects and also chronic affects from short and long term exposure	IF IN EYES: Obtain prompt consultation, preferably from an ophthalmologist. Chemical eye burns may require extended irrigation. IF SWALLOWED: Due to irritant properties, swallowing may result in burns/ulceration of mouth, stomach and lower gastrointestinal tract with subsequent stricture.
Numerical measures of toxicity (such as acute toxicity estimates)	None Known
Interactive effects	None Known
11.2 Other information	
NTP Report on Carcinogens	No components listed.
IARC Monographs	Listed: Naphthalene Group 2B

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity	Mixture: Hazardous to the aquatic environment, acute, Category 1: H400: Very toxic to aquatic life. Hazardous to the aquatic environment, Chronic, Category 1: H410: Very toxic to aquatic life with long lasting effects.
Naphthalene	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 Acute Toxicity: LC50 (rainbow trout) mg/l (96 hour): 1.6 (OECD 203) Chronic Toxicity: LC50 (fish) mg/l (96 hour): 2.1 (Moles, 1981)
12.2 Persistence and degradability	No data for the mixture as a whole.

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	Ethylene Glycol Dimethyl Ether	Not biodegradable. 16% Degradation (48 Days) (OECD 302 B)
	Naphthalene	Readily biodegradable (according to OECD criteria). >74% Degradation (28 Days) (OECD 301 B)
	Sodium	Not applicable for inorganic substances
12.3	Bioaccumulative potential	No data for the mixture as a whole.
	Ethylene Glycol Dimethyl Ether	No data
	Naphthalene	Low bioaccumulation potential. (OECD 305)
	Sodium	Not applicable for inorganic substances
12.4	Mobility in soil	No data for the mixture as a whole.
	Ethylene Glycol Dimethyl Ether	No data
	Naphthalene	The substance has high mobility in soil. (Lindhardt, 1994)
	Sodium	Not applicable for inorganic substances
12.5	Other adverse effects	None known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1	Safe handling and disposal methods	Do not release undiluted and unneutralised to the sewer. This material and its container must be disposed of as hazardous waste. Containers must be decontaminated in accordance with all applicable regulations. Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. Disposal should be in accordance with local, state or national legislation. Avoid release to the environment.
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SECTION 14: TRANSPORT INFORMATION

	ADG	IMDG/ADN	IATA/ICAO
14.1	UN 2924	UN 2924	UN 2924
14.2	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Sodium / Ethylene Glycol Dimethyl Ether).	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Sodium / Ethylene Glycol Dimethyl Ether).	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Sodium / Ethylene Glycol Dimethyl Ether).
14.3	3	3	3
14.4	II	II	II
14.5	Environmentally hazardous substance	Classified as a Marine Pollutant	Environmentally hazardous substance
14.6	See Section: 2		
14.7	Not applicable		

SECTION 15: REGULATORY INFORMATION

15.1	Safety, health and environmental regulations specific for the product in question
15.2	International regulations
	Montreal Protocol / Stockholm Convention / Rotterdam Convention / Basel Convention / MARPOL
	IARC Monographs
15.3	National regulations
	Australian Inventory of Chemical Substances
	Model WHS regulations
	NICNAS - Priority Existing Chemicals
	NICNAS - IMAP Framework
	NICNAS - High Volume Industrial Chemical List
	National Pollutant Inventory

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The Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)

Naphthalene (Polycyclic aromatic hydrocarbon - Threshold Category = 2a, Threshold = 400 tpa/1 tph; Threshold Category = 2b, Threshold = 2,000 tpa/60,000 MWh/rated at 20 MW)
Not listed

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: Not applicable V1.0.

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References:

Existing Safety Data Sheet (SDS), EU Harmonised Classification(s) for Ethylene glycol dimethyl ether (CAS No. 110-71-4), Naphthalene (CAS No. 91-20-3), Sodium (Na) (CAS No. 7440-23-5)

EU Existing ECHA registration(s) for Ethylene glycol dimethyl ether (CAS No. 110-71-4), Naphthalene (CAS No. 91-20-3), Sodium (Na) (CAS No. 7440-23-5)

Literature reference

1. Moles A, Bates S, Rice SD and Korn S. 1981. Reduced Growth of Coho Salmon Fry Exposed to Two Petroleum Components, Toluene and Naphthalene, in Fresh Water. *Trans. Am. Fish. Soc.* 110:430-436.
2. Lindhardt Bo, Christensen Thomas H. 1994. Measured And Estimated Volatilisation Of Naphthalene From a Sandy Soil. *Chemosphere*, Vol. 29, No. 7, pp. 1407-1419, 1994.

GHS Classification	Classification Procedure
Flammable liquid - Category 2	Flash Point Test Result/ Boiling Point (°C)
Acute toxicity – oral – Category 4	Threshold Calculation
Skin corrosion/irritation - Category 1B	Threshold Calculation
Serious eye damage/ Eye Irritation - Category 1	Threshold Calculation
Acute toxicity – inhalation – Category 4	Threshold Calculation
Specific target organ toxicity - Single exposure - Category 3	Threshold Calculation
Carcinogenicity - Category 2	Threshold Calculation
Reproductive toxicity – Category 1B	Threshold Calculation
Hazardous to the aquatic environment - Acute - Category 1	Summation Calculation
Hazardous to the aquatic environment - Chronic - Category 1	Summation Calculation

This Safety Data Sheet was prepared in accordance with Code Of Practice For The Preparation Of Safety Data Sheets For Hazardous Chemicals (Safe Work Australia, 2020) & GHS 7

Legend

ADG	Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)
ADR	ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
ECHA	European Chemicals Agency
EU	European Union
IATA	IATA: International Air Transport Association
ICAO	ICAO: International Civil Aviation Organization
IMDG	IMDG: International Maritime Dangerous Goods
LTEL	Long term exposure limit
NOEC	No Observed Effect Concentration
OECD	Organisation for Economic Cooperation and Development
PBT	PBT: Persistent, Bioaccumulative and Toxic

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STEL Short term exposure limit

Hazard Class / Classification code:

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Skin corrosion/irritation - Category 1B
Serious eye damage/ Eye Irritation - Category 1
Acute toxicity – inhalation – Category 4
Specific target organ toxicity - Single exposure - Category 3
Carcinogenicity - Category 2
Reproductive toxicity – Category 1B
Hazardous to the aquatic environment - Acute - Category 1
Hazardous to the aquatic environment - Chronic - Category 1

Hazard Statement(s)

H226: Flammable liquid and vapour.
H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.
H318: Causes serious eye damage.
H332: Harmful if inhaled.
H335: May cause respiratory irritation.
H351: Suspected of causing cancer.
H360: May damage fertility or the unborn child.
H401: Toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.

AUH019: May form explosive peroxides.

Training advice: Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

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