



SAFETY DATA SHEET

According to Safe Work Australia

Printing date 12.10.2016

Revision: 12.10.2016

1. IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

Product Name: DP1**Other Means of Identification:** Mixture**Recommended Use of the Chemical and Restriction on Use:** Part one of a two part beer line cleaning solution**Details of Manufacturer or Importer:**Bracton Industries (NSW) Pty Ltd
50 Chard Rd
Brookvale NSW 2100**Phone Number:** 02 9938 1800**Emergency telephone number:** National Poison Information Centre: 13 11 26

2. HAZARDS IDENTIFICATION

Hazardous Nature:

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition).



corrosion

Skin Corrosion/Irritation 1A H314 Causes severe skin burns and eye damage.

Serious Eye Damage/Irritation 1 H318 Causes serious eye damage.



Acute Toxicity (Oral) 4 H302 Harmful if swallowed.

Signal Word Danger**Hazard Statements**

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

Precautionary Statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P321 Specific treatment (see on this label).

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P363 Wash contaminated clothing before reuse.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national regulations.

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3 . COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical Characterization: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Hazardous Components:

1310-58-3	Potassium hydroxide ⚠ Skin Corrosion/Irritation 1A, H314; ⚠ Acute Toxicity (Oral) 4, H302	30 - 60%
10213-79-3	Sodium metasilicate pentahydrate ⚠ Corrosive To Metals 1, H290; ⚠ Skin Corrosion/Irritation 1B, H314; ⚠ Acute Toxicity (Oral) 4, H302; STOT SE 3, H335	<10%

4 . FIRST AID MEASURES

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if breathing problems develop.

Skin Contact:

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if symptoms occur.

Eye Contact:

In case of eye contact, hold eyelids open and rinse with water for at least 15 minutes. Seek medical attention if symptoms occur.

Ingestion:

If swallowed, do not induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention.

Symptoms Caused by Exposure:

Inhalation: Aerosols may cause respiratory irritation, sneezing, coughing, breathing difficulties, burning sensation and sores in the upper respiratory system.

Skin Contact: Causes severe skin burns and redness.

Eye Contact: Causes serious eye damage, redness and blurred vision. May cause permanent blindness.

Ingestion: Harmful if swallowed. May cause burns to the gastrointestinal tract. May cause burning sensation, pain and vomiting. May cause ulceration, bleeding and perforation of the stomach and intestines.

5 . FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water fog or fine spray.

Specific Hazards Arising from the Chemical:

Hazardous combustion products include oxides of carbon, potassium and sodium and water vapour. Product is not flammable.

Special Protective Equipment and Precautions for Fire Fighters:

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

6 . ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Wear approved respiratory protection, chemical resistant gloves, protective clothing and safety boots. Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation.

Environmental Precautions:

In the event of a major spill, prevent spillage from entering drains or water courses.

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Methods and Materials for Containment and Cleaning Up:

Stop leak if safe to do so and absorb spill with sand, earth, vermiculite or some other absorbent material. Collect the spilled material and place into a suitable container for disposal. Small spills can be mopped up, diluting with plenty of water.

7. HANDLING AND STORAGE

Precautions for Safe Handling:

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours. Use only outdoors or in a well-ventilated area.

Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

Conditions for Safe Storage:

Store in a cool, dry and well ventilated area away from direct sunlight. Keep container tightly closed when not in use. Protect containers from physical damage. Keep away from acids, some metals (such as aluminium, tin and zinc), ammonium compounds, nitro compounds, organic halogen compounds, paper and other wood products.

Do not store in or near aluminium, tin, zinc, galvanised iron, paper or wood.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Standards:

1310-58-3 Potassium hydroxide

WES Peak limitation: 2 mg/m³

Engineering Controls:

Maintain air concentration below occupational exposure standards, providing adequate ventilation.

Respiratory Protection:

Use an approved vapour respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapour, inadequate ventilation, development of respiratory tract irritation) and engineering controls are not feasible. See Australian Standards AS/NZS 1715 and 1716 for more information.

Skin Protection:

PVC, nitrile or rubber gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information. When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered.

Occupational protective clothing (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.

Eye and Face Protection:

Eye and face protectors for protection against splashing materials or liquids. See Australian/New Zealand Standard AS/NZS 1337 for more information.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Form: Liquid
Colour: Clear
Odour: Almost odourless

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Odour Threshold:	No information available
pH-Value:	14 Very Alkaline
Melting point/Melting range:	<0 °C
Initial Boiling Point/Boiling Range:	>100 °C
Flash Point:	No information available
Flammability:	Product is not flammable.
Auto-ignition Temperature:	No information available
Decomposition Temperature:	No information available
Explosion Limits:	
Lower:	No information available
Upper:	No information available
Vapour Pressure at 20 °C:	~23 hPa (Water)
Density at 20 °C:	1.5 g/cm ³
Vapour Density:	No information available
Evaporation Rate:	No information available
Solubility in Water:	Miscible with water in all proportions
Partition Coefficient (n-octanol/water):	No information available
Viscosity:	Mobile
% Volatiles by Volume:	~38 %

10. STABILITY AND REACTIVITY**Possibility of Hazardous Reactions:**

Will react violently with acids. Contact with some metals can generate hydrogen. Contact with ammonium compounds can generate ammonia. May cause fire or explosion in contact with organic halogen compounds. May form shock-sensitive salts with organic nitro compounds.

Chemical Stability: Stable at ambient temperature and under normal conditions of use.

Conditions to Avoid: No further relevant information available.

Incompatible Materials:

Acids, some metals (such as aluminium, tin and zinc), ammonium compounds, nitro compounds, organic halogen compounds, paper and other wood products.

Hazardous Decomposition Products: Oxides of carbon, potassium and sodium and water vapour.

11. TOXICOLOGICAL INFORMATION**Toxicity:****LD₅₀/LC₅₀ Values Relevant for Classification:****1310-58-3 Potassium hydroxide**

Oral	LD ₅₀	273 mg/kg (rat)
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10213-79-3 Sodium metasilicate pentahydrate

Oral	LD ₅₀	770 mg/kg (mouse)
	LD ₅₀	1153 mg/kg (rat)
Dermal	LD ₅₀	>5000 mg/kg (rat)
	LC ₅₀	>2060 mg/m ³ (rat)

Acute Health Effects**Inhalation:**

Aerosols may cause respiratory irritation, sneezing, coughing, breathing difficulties, burning sensation and sores in the upper respiratory system.

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Skin: Causes severe skin burns and redness.**Eye:** Causes serious eye damage, redness and blurred vision. May cause permanent blindness.**Ingestion:**

Harmful if swallowed. May cause burns to the gastrointestinal tract. May cause burning sensation, pain and vomiting. May cause ulceration, bleeding and perforation of the stomach and intestines.

Skin Corrosion / Irritation: Causes severe skin burns.**Serious Eye Damage / Irritation:** Causes serious eye damage.**Respiratory or Skin Sensitisation:** Based on classification principles, the classification criteria are not met.**Germ Cell Mutagenicity:** Based on classification principles, the classification criteria are not met.**Carcinogenicity:** This product does NOT contain any IARC listed chemicals.**Reproductive Toxicity:** Based on classification principles, the classification criteria are not met.**Specific Target Organ Toxicity (STOT) - Single Exposure:**

Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Repeated Exposure:

Based on classification principles, the classification criteria are not met.

Aspiration Hazard: Based on classification principles, the classification criteria are not met.**Chronic Health Effects:** Repeated or prolonged skin exposure may cause dermatitis.**Existing Conditions Aggravated by Exposure:** No information available**Additional toxicological information:** No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity:**Aquatic toxicity:** May be harmful to aquatic organisms.**Persistence and Degradability:** No further relevant information available.**Bioaccumulative Potential:** No further relevant information available.**Mobility in Soil:** This product is readily transported by water.**Other adverse effects:** No information available

13. DISPOSAL CONSIDERATIONS

Disposal Methods and Containers: Dispose according to applicable local and state government regulations.**Special Precautions for Landfill or Incineration:**

Please consult your state Land Waste Management Authority for more information.

14. TRANSPORT INFORMATION

UN Number

ADG, IMDG, IATA

UN1719

Proper Shipping Name

ADG, IMDG, IATA

CAUSTIC ALKALI LIQUID, N.O.S. (POTASSIUM HYDROXIDE)

Dangerous Goods Class

ADG Class:

8 Corrosive substances.

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Packing Group: ADG, IMDG, IATA	II
EMS Number:	F-A,S-B
Hazchem Code:	2R
Special Provisions:	274
Limited Quantities:	1L
Packagings & IBCs - Packing Instruction:	P001, IBC02
Portable Tanks & Bulk Containers - Instructions:	T11
Portable Tanks & Bulk Containers - Special Provisions:	TP2, TP27

15. REGULATORY INFORMATION

Australian Inventory of Chemical Substances:

1310-58-3	Potassium hydroxide
7732-18-5	Water

Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule:
Poisons Schedule: 6

16. OTHER INFORMATION

Date of Preparation or Last Revision: 12.10.2016

Prepared by: MSDS.COM.AU Pty Ltd

www.msds.com.au

Abbreviations and acronyms:

ADG: Australian Dangerous Goods
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 LC₅₀: Lethal concentration, 50 percent
 LD₅₀: Lethal dose, 50 percent
 IARC: International Agency for Research on Cancer
 STEL: Short Term Exposure Limit
 TWA: Time Weighted Average
 NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)
 Corrosive To Metals 1: Corrosive to metals – Category 1
 Acute Toxicity (Oral) 4: Acute toxicity – Category 4
 Skin Corrosion/Irritation 1A: Skin corrosion/irritation – Category 1A
 Skin Corrosion/Irritation 1B: Skin corrosion/irritation – Category 1B
 Serious Eye Damage/Irritation 1: Serious eye damage/eye irritation – Category 1
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Disclaimer

This SDS is prepared in accord with the Safe Work Australia document "Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - December 2011"

The information contained in this safety data sheet is provided in good faith and is believed to be accurate at the date of issuance. Bracton Industries (NSW) Pty Ltd makes no representation of the accuracy or comprehensiveness of the information and to the full extent allowed by law excludes all liability for any loss or damage related to the supply or use of the information in this material safety data sheet. MSDS.COM.AU Pty Ltd is not in a position to warrant the accuracy of the data herein. The user is cautioned to make their own determinations as to the suitability of the information provided to the particular circumstances in which the product is used.



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1. IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

Product Name: DP2**Other Means of Identification:** Mixture**Other Name:** Mixture**Recommended Use of the Chemical and Restriction on Use:** Part two of a two part beer line cleaning solution**Details of Manufacturer or Importer:**Bracton Industries (NSW) Pty Ltd
50 Chard Rd
Brookvale NSW 2100**Phone Number:** 02 9938 1800**Emergency telephone number:** National Poison Information Centre: 13 11 26

2. HAZARDS IDENTIFICATION

Hazardous Nature:

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)



corrosion

Serious Eye Damage/Irritation 1 H318 Causes serious eye damage.



Acute Toxicity (Oral) 4

H302 Harmful if swallowed.

Signal Word Danger**Hazard Statements**

H302 Harmful if swallowed.

H318 Causes serious eye damage.

Precautionary Statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P330 Rinse mouth.

P501 Dispose of contents/container in accordance with local/regional/national regulations.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical Characterization: Mixtures**Description:** Mixture of substances listed below with nonhazardous additions.

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Product Name: DP2

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Hazardous Components:

7722-84-1	Hydrogen peroxide solution	<10%
	 Oxidising Liquids 1, H271;  Skin Corrosion/Irritation 1A, H314;  Acute Toxicity (Oral) 4, H302; Acute Toxicity (Inhalation) 4, H332	

4. FIRST AID MEASURES

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if breathing problems develop.

Skin Contact:

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if symptoms occur.

Eye Contact:

In case of eye contact, hold eyelids open and rinse with water for at least 15 minutes. Seek medical attention if symptoms occur.

Ingestion:

If swallowed, do not induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention.

Symptoms Caused by Exposure:

Inhalation: Inhalation is unlikely. Inhalation of aerosols may cause irritation to the upper respiratory system and possibly pulmonary oedema.

Skin Contact: May cause skin irritation and bleaching.

Eye Contact: Causes serious eye damage. May cause corneal burns.

Ingestion: Harmful if swallowed. May cause irritation or burns to the mouth, throat and stomach, nausea and vomiting. Large quantities may cause pulmonary oedema and can be fatal.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Use fire extinguishing methods suitable to surrounding conditions.

Specific Hazards Arising from the Chemical:

Hazardous combustion products include water vapour.

Product is not flammable.

Special Protective Equipment and Precautions for Fire Fighters:

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Wear approved respiratory protection, chemical resistant gloves, protective clothing and safety boots. Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation.

Environmental Precautions:

In the event of a major spill, prevent spillage from entering drains or water courses.

Methods and Materials for Containment and Cleaning Up:

Stop leak if safe to do so and absorb spill with sand, earth, vermiculite or some other absorbent material. Collect the spilled material and place into a suitable container for disposal. Small spills can be mopped up, diluting with plenty of water.

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Product Name: DP2

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7. HANDLING AND STORAGE

Precautions for Safe Handling:

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours. Use only outdoors or in a well-ventilated area.

Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

Conditions for Safe Storage:

Store in a cool, dry and well ventilated area. Keep container tightly closed when not in use. Protect from heat, sparks, open flames and other sources of ignition. Protect containers from physical damage. Keep away from reducing agents, alkalis, metals (such as copper and other transition metals), combustible materials (such as fabric, wood, paper and sawdust), and almost any other contaminant. Do not store in or near combustible materials.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Standards:

7722-84-1 Hydrogen peroxide solution

WES | TWA: 1.4 mg/m³, 1 ppm

Engineering Controls:

Maintain air concentration below occupational exposure standards, providing adequate ventilation.

Respiratory Protection:

Use an approved vapour respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapour, inadequate ventilation, development of respiratory tract irritation) and engineering controls are not feasible. See Australian Standards AS/NZS 1715 and 1716 for more information.

Skin Protection:

Impervious gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information. When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered.

Occupational protective clothing (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.

Eye and Face Protection:

Eye and face protectors for protection against splashing materials or liquids. See Australian/New Zealand Standard AS/NZS 1337 for more information.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Form:	Liquid
Colour:	Clear, colourless
Odour:	Odourless
Odour Threshold:	No information available
pH-Value:	Slightly acidic
Melting point/Melting range:	No information available
Initial Boiling Point/Boiling Range:	~100 °C
Flash Point:	No information available

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Product Name: DP2

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Flammability:	Product is not flammable.
Auto-ignition Temperature:	No information available
Decomposition Temperature:	No information available
Explosion Limits:	
Lower:	No information available
Upper:	No information available
Vapour Pressure:	No information available
Density at 20 °C:	1.0 g/cm ³
Vapour Density:	No information available
Evaporation Rate:	No information available
Solubility in Water:	Miscible with water in all proportions
Partition Coefficient (n-octanol/water):	No information available
Viscosity:	No information available
% Volatiles by Volume:	>95 %

10. STABILITY AND REACTIVITY

Possibility of Hazardous Reactions:

Releases oxygen on contact with alkalis, metals, combustible materials and almost any other contaminant.

Chemical Stability: Stable at ambient temperature and under normal conditions of use.

Conditions to Avoid: Heat, sparks, open flames, hot surfaces and direct sunlight.

Incompatible Materials:

Reducing agents, alkalis, metals, combustible materials (such as fabric, wood, paper and sawdust), and almost any other contaminant.

Hazardous Decomposition Products: Water vapour.

11. TOXICOLOGICAL INFORMATION

Toxicity:

LD₅₀/LC₅₀ Values Relevant for Classification:

7722-84-1 Hydrogen peroxide solution

Oral	LD ₅₀	1518 mg/kg (rat)
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Acute Health Effects

Inhalation:

Inhalation is unlikely. Inhalation of aerosols may cause irritation to the upper respiratory system and possibly pulmonary oedema.

Skin: May cause skin irritation and bleaching.

Eye: Causes serious eye damage. May cause corneal burns.

Ingestion:

Harmful if swallowed. May cause irritation or burns to the mouth, throat and stomach, nausea and vomiting. Large quantities may cause pulmonary oedema and can be fatal.

Skin Corrosion / Irritation: Based on classification principles, the classification criteria are not met.

Serious Eye Damage / Irritation: Causes serious eye damage.

Respiratory or Skin Sensitisation: Based on classification principles, the classification criteria are not met.

Germ Cell Mutagenicity: Based on classification principles, the classification criteria are not met.

Carcinogenicity:

Hydrogen Peroxide are classified by IARC as Group 3 - Not classifiable as to its carcinogenicity to humans.

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Reproductive Toxicity: Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Single Exposure:

Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Repeated Exposure:

Based on classification principles, the classification criteria are not met.

Aspiration Hazard: Based on classification principles, the classification criteria are not met.

Chronic Health Effects:

Repeated or prolonged skin exposure may cause skin bleaching and burns. Prolonged or repeated exposure may cause liver damage.

Existing Conditions Aggravated by Exposure: No information available

Additional toxicological information: No information available

12 . ECOLOGICAL INFORMATION

Ecotoxicity:

Aquatic toxicity: May be harmful to aquatic life.

Persistence and Degradability: Hydrogen peroxide is readily degradable.

Bioaccumulative Potential: Bioaccumulation is not expected to occur.

Mobility in Soil: This product is readily transported by water.

Other adverse effects: No further relevant information available.

13 . DISPOSAL CONSIDERATIONS

Disposal Methods and Containers: Dispose according to applicable local and state government regulations.

Special Precautions for Landfill or Incineration:

Please consult your state Land Waste Management Authority for more information.

14 . TRANSPORT INFORMATION

UN Number Not regulated

Proper Shipping Name Not regulated

Dangerous Goods Class Not regulated

Packing Group: Not regulated

15 . REGULATORY INFORMATION

Australian Inventory of Chemical Substances:

7722-84-1	Hydrogen peroxide solution
7732-18-5	Water

Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule:

Poisons Schedule: 6

16 . OTHER INFORMATION

Date of Preparation or Last Revision: 12.10.2016

Prepared by: MSDS.COM.AU Pty Ltd

www.msds.com.au

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Abbreviations and acronyms:

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC₅₀: Lethal concentration, 50 percentLD₅₀: Lethal dose, 50 percent

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

Oxidising Liquids 1: Oxidising liquids, Hazard Category 1

Acute Toxicity (Oral) 4: Acute toxicity – Category 4

Skin Corrosion/Irritation 1A: Skin corrosion/irritation – Category 1A

Serious Eye Damage/Irritation 1: Serious eye damage/eye irritation – Category 1

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