

# 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 (Disinfecting Process One)

**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/m<sup>3</sup>

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

#### LD<sub>50</sub>/LC<sub>50</sub> Values Relevant for Classification:

##### 1310-58-3 Potassium hydroxide

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

Oral	LD <sub>50</sub>	770 mg/kg (mouse)
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	LD <sub>50</sub>	1153 mg/kg (rat)
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Dermal	LD <sub>50</sub>	>5000 mg/kg (rat)
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Inhalation	LC <sub>50</sub>	>2060 mg/m <sup>3</sup> (rat)
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### 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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<b>Packing Group:</b> ADG, IMDG, IATA	II
<b>EMS Number:</b>	F-A,S-B
<b>Hazchem Code:</b>	2R
<b>Special Provisions:</b>	274
<b>Limited Quantities:</b>	1L
<b>Packagings &amp; IBCs - Packing Instruction:</b>	P001, IBC02
<b>Portable Tanks &amp; Bulk Containers - Instructions:</b>	T11
<b>Portable Tanks &amp; Bulk Containers - Special Provisions:</b>	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)  
 LC<sub>50</sub>: Lethal concentration, 50 percent  
 LD<sub>50</sub>: 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”

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