

# SAFETY DATA SHEET

According to Safe Work Australia

Printing date 07.11.2016

Revision: 07.11.2016

## 1. IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

**Product Name:** 82V 2AH BS BATTERY

**Other Means of Identification:** Mixture

**Other Name:** Briggs and Stratton 82V Lithium - ion Battery 2.0 Ah

**Part Number:** 1760426/BSB2AH82

**Recommended Use of the Chemical and Restriction on Use:**

Recommended for use in Briggs and Stratton and Victa outdoor domestic power tools.

**Details of Manufacturer or Importer:**

Briggs and Stratton Australia Pty Ltd

1 Moorebank Avenue

Moorebank NSW 2170

**Phone Number:** 02 8778 5555

**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).



health hazard

Respiratory Sensitisation 1	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Germ Cell Mutagenicity 1A	H340	May cause genetic defects.
Carcinogenicity 2	H351	Suspected of causing cancer.
Toxic To Reproduction 1B	H360	May damage fertility or the unborn child.
STOT RE 2	H373	May cause damage to organs through prolonged or repeated exposure.
Aspiration Hazard 1	H304	May be fatal if swallowed and enters airways.



corrosion

Skin Corrosion/Irritation 1A	H314	Causes severe skin burns and eye damage.
Serious Eye Damage/Irritation 1	H318	Causes serious eye damage.



environment

Aquatic Acute 1	H400	Very toxic to aquatic life.
Aquatic Chronic 1	H410	Very toxic to aquatic life with long lasting effects.



Acute Toxicity (Oral) 4	H302	Harmful if swallowed.
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Acute Toxicity (Inhalation) 4	H332 Harmful if inhaled.
Skin Sensitisation 1	H317 May cause an allergic skin reaction.
STOT SE 3	H336 May cause drowsiness or dizziness.

**Signal Word** Danger**Hazard Statements**

H302+H332 Harmful if swallowed or if inhaled.  
 H314 Causes severe skin burns and eye damage.  
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 H317 May cause an allergic skin reaction.  
 H340 May cause genetic defects.  
 H351 Suspected of causing cancer.  
 H360 May damage fertility or the unborn child.  
 H336 May cause drowsiness or dizziness.  
 H373 May cause damage to organs through prolonged or repeated exposure.  
 H304 May be fatal if swallowed and enters airways.  
 H410 Very toxic to aquatic life with long lasting effects.

**Precautionary Statements**

P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
 P284 [In case of inadequate ventilation] wear respiratory protection.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P273 Avoid release to the environment.  
 P264 Wash hands thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product.  
 P271 Use only outdoors or in a well-ventilated area.  
 P272 Contaminated work clothing should not be allowed out of the workplace.  
 P201 Obtain special instructions before use.  
 P202 Do not handle until all safety precautions have been read and understood.  
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
 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.  
 P321 Specific treatment (see on this label).  
 P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.  
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P363 Wash contaminated clothing before reuse.  
 P308+P313 IF exposed or concerned: Get medical advice/attention.  
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
 P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
 P314 Get medical advice/attention if you feel unwell.  
 P391 Collect spillage.  
 P362+P364 Take off contaminated clothing and wash it before reuse.  
 P405 Store locked up.  
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
 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****Hazardous Components:**

7439-89-6	Iron ⚠ Flammable Solids 1, H228	10 - 30%
14807-96-6	Talc (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> )	10 - 30%
108-88-3	Benzene, methyl- ⚠ Flammable Liquids 2, H225; ⚠ Toxic To Reproduction 1A, H360; STOT RE 2, H373; ⚠ Skin Corrosion/Irritation 2, H315	10 - 30%
78-93-3	2-Butanone ⚠ Flammable Liquids 2, H225; ⚠ Serious Eye Damage/Irritation 2, H319; STOT SE 3, H335-H336	10 - 30%
110-82-7	Cyclohexane ⚠ Flammable Liquids 2, H225; ⚠ Aspiration Hazard 1, H304; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin Corrosion/Irritation 2, H315; STOT SE 3, H336	10 - 30%
110-54-3	Hexane ⚠ Flammable Liquids 2, H225; ⚠ Toxic To Reproduction 2, H361; STOT RE 2, H373; Aspiration Hazard 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ Skin Corrosion/Irritation 2, H315; STOT SE 3, H336	10 - 30%
14808-60-7	Quartz (SiO <sub>2</sub> )	10 - 30%
12190-79-3	Lithium cobaltite ⚠ Respiratory Sensitisation 1, H334; ⚠ Skin Sensitisation 1, H317	5 - 10%
182442-95-1	Cobalt lithium manganese nickel oxide ⚠ Acute Toxicity (Oral) 4, H302; Skin Sensitisation 1, H317	5 - 10%
7440-02-0	Nickel ⚠ Carcinogenicity 2, H351; STOT RE 1, H372; ⚠ Skin Sensitisation 1, H317	<10%
7440-22-4	Silver	<10%
13463-67-7	Titanium oxide (TiO <sub>2</sub> )	<10%
7782-42-5	Graphite	<10%
26265-08-7	Phenol, 4,4'-(1-methylethylidene)bis[2,6-dibromo-, polymer with (chloromethyl) oxirane and 4,4'-(1-methylethylidene)bis[phenol] ⚠ Skin Corrosion/Irritation 2, H315	<10%
7727-43-7	Sulfuric acid, barium salt (1:1)	<10%
7440-31-5	Tin	<10%
7429-90-5	Aluminium foil	<10%
77-58-7	Dibutyltin dilaurate ⚠ Germ Cell Mutagenicity 2, H341; Toxic To Reproduction 1B, H360; STOT SE 1, H370; STOT RE 1, H372; ⚠ Skin Corrosion/Irritation 1A, H314; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin Sensitisation 1, H317	<10%
1333-86-4	Carbon black ⚠ Self-heat. 2, H252	<10%
65997-05-9	Rosin, polymerized ⚠ Skin Sensitisation 1, H317	<10%

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7440-44-0	Activated carbon ⚠ Self-heat. 1, H251	<10%
7440-21-3	Silicon ⚠ Flammable Solids 2, H228	<10%
12047-27-7	Barium titanium trioxide ⚠ Acute Toxicity (Oral) 4, H302; Acute Toxicity (Inhalation) 4, H332	<10%
7440-43-9	Cadmium	<1%

**Additional information:**

The battery is sealed hermetically and designed to withstand temperatures and pressures encountered during normal use. Thus, the ingredients have no hazard potential except if the battery is violated or dismantled. If exposed to a fire, mechanical shocks, and electric stress by miss-use, the battery cell case will be breached and the hazardous materials may be released and acrid gas may be emitted. Therefore the batteries should not short circuit, recharge, puncture, incinerate, immerse in water, force discharge or expose to temperatures above the temperature range of the cell or battery.

#### 4 . FIRST AID MEASURES

**Inhalation:**

If inhaled, remove to fresh air. Make the victim blow their nose and gargle. 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 immediate medical attention.

**Symptoms Caused by Exposure:**

Inhalation: The contents of a ruptured battery is harmful if inhaled. May cause respiratory irritation, drowsiness and dizziness. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin Contact: Direct skin contact with the contents of a ruptured battery causes severe skin burns. May cause an allergic skin reaction.

Eye Contact: Direct contact with the contents of a ruptured battery causes serious eye damage.

Ingestion: The contents of a ruptured battery is harmful if swallowed. May be fatal if swallowed and enters airways.

#### 5 . FIRE FIGHTING MEASURES

**Suitable Extinguishing Media:** Water, foam, dry chemical powder, nitrogen gas or carbon dioxide gas.

**Specific Hazards Arising from the Chemical:**

Hazardous combustion products include acrid or harmful gases. Contact with water generates hydrogen fluoride.

The contents of the battery are highly flammable.

Batteries may explode when exposed to extreme heat. Batteries close to fire should be removed if safe to do so.

**Special Protective Equipment and Precautions for Fire Fighters:**

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

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## 6 . ACCIDENTAL RELEASE MEASURES

### **Personal Precautions, Protective Equipment and Emergency Procedures:**

Wear approved respiratory protection, solvent resistant gloves, protective clothing (overall), and safety boots. Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation. Extinguish all sources of ignition. Avoid sparks and open flames. No smoking.

### **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:**

Pick up any damaged batteries that are not hot or burning and place in a suitable container for disposal. Any spilt liquid can be wiped up with dry cloth or paper towels.

## 7 . HANDLING AND STORAGE

### **Precautions for Safe Handling:**

Do not damage or remove the external tube.

Do not disassemble or reconstruct the battery or solder the battery directly.

Do not subject batteries to mechanical shock. Do not deform, crush or mutilate batteries.

Do not dispose of batteries in fire.

Do not use unauthorised charger or charging method. If the charging process doesn't end within the specified time terminate charging.

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.

Take precautionary measures against static discharge. 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. Contaminated work clothing must not be allowed out of the workplace. 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. Protect from high humidity, heat, sparks, open flames and other sources of ignition. Keep away from strong oxidising agents, strong acids, conductive materials and water.

## 8 . EXPOSURE CONTROLS AND PERSONAL PROTECTION

### **Exposure Standards:**

#### **7440-31-5 Tin**

WES	TWA: 2 mg/m <sup>3</sup>
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#### **7440-50-8 Copper**

WES	TWA: 1* 0.2** mg/m <sup>3</sup> *dust&mists **fume
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#### **14807-96-6 Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>)**

WES	TWA: 2.5 mg/m <sup>3</sup>
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#### **7440-21-3 Silicon**

WES	TWA: 10 mg/m <sup>3</sup>
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#### **108-88-3 Benzene, methyl-**

WES	STEL: 574 mg/m <sup>3</sup> , 150 ppm TWA: 191 mg/m <sup>3</sup> , 50 ppm Sk
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<b>78-93-3 2-Butanone</b>	
WES	STEL: 890 mg/m <sup>3</sup> , 300 ppm TWA: 445 mg/m <sup>3</sup> , 150 ppm
<b>110-82-7 Cyclohexane</b>	
WES	STEL: 1050 mg/m <sup>3</sup> , 300 ppm TWA: 350 mg/m <sup>3</sup> , 100 ppm
<b>110-54-3 Hexane</b>	
WES	TWA: 72 mg/m <sup>3</sup> , 20 ppm
<b>14808-60-7 Quartz (SiO<sub>2</sub>)</b>	
WES	TWA: 0.1 mg/m <sup>3</sup> respirable dust
<b>7440-02-0 Nickel</b>	
WES	TWA: 1 mg/m <sup>3</sup> Metal: Sen
<b>7440-22-4 Silver</b>	
WES	TWA: 0.1 mg/m <sup>3</sup>
<b>13463-67-7 Titanium oxide (TiO<sub>2</sub>)</b>	
WES	TWA: 10 mg/m <sup>3</sup>
<b>7782-42-5 Graphite</b>	
WES	TWA: 3 mg/m <sup>3</sup>
<b>7727-43-7 Sulfuric acid, barium salt (1:1)</b>	
WES	TWA: 10 mg/m <sup>3</sup>
<b>7429-90-5 Aluminium foil</b>	
WES	TWA: 10* 5** mg/m <sup>3</sup> *metal dust; **welding, pyro powders
<b>77-58-7 Dibutyltin dilaurate</b>	
WES	STEL: 0.2 mg/m <sup>3</sup> TWA: 0.1 mg/m <sup>3</sup> as Sn, Sk: Note (g)
<b>1333-86-4 Carbon black</b>	
WES	TWA: 3 mg/m <sup>3</sup>
<b>7440-43-9 Cadmium</b>	
WES	TWA: 0.01 mg/m <sup>3</sup> Note (g); as Cd

**Engineering Controls:**

Not necessary under normal use. In the case of rupture or leakage, ensure adequate mechanical ventilation (local exhaust) for a battery that emits gas or fumes.

**Respiratory Protection:**

None necessary for normal use. In the case of abuse and leakage of liquid or emission of fumes, use an approved vapour respirator. See Australian Standards AS/NZS 1715 and 1716 for more information.

**Skin Protection:**

None under normal use. In case of spill wear protective clothing, such as PVC or nitrile gloves, chemical resistant clothing, apron and safety boots. See Australian/New Zealand Standards AS/NZS 2161 and 4501 for more information.

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**Eye and Face Protection:** Eye protection is not required under normal use conditions.

## 9 . PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:**

<b>Form:</b>	Solid cuboid
<b>Colour:</b>	Green/black
<b>Odour:</b>	No special odour
<b>Odour Threshold:</b>	No information available
<b>pH-Value:</b>	No information available
<b>Melting point/Melting range:</b>	No information available
<b>Initial Boiling Point/Boiling Range:</b>	No information available
<b>Flash Point:</b>	No information available
<b>Flammability:</b>	Highly flammable.
<b>Auto-ignition Temperature:</b>	No information available
<b>Decomposition Temperature:</b>	450 °C
<b>Explosion Limits:</b>	
<b>Lower:</b>	No information available
<b>Upper:</b>	No information available
<b>Vapour Pressure:</b>	No information available
<b>Relative Density:</b>	No information available
<b>Vapour Density:</b>	No information available
<b>Evaporation Rate:</b>	No information available
<b>Solubility in Water:</b>	Insoluble
<b>Partition Coefficient (n-octanol/water):</b>	No information available

## 10 . STABILITY AND REACTIVITY

**Possibility of Hazardous Reactions:** Hazardous polymerisation will not occur.**Chemical Stability:** Stable at ambient temperature and under normal conditions of use.**Conditions to Avoid:** High humidity, heat, sparks, open flames and other sources of ignition.**Incompatible Materials:** Strong oxidising agents, strong acids, conductive materials and water.**Hazardous Decomposition Products:**

Acrid or harmful gases are emitted in a fire. Contact with water generates hydrogen fluoride.

## 11 . TOXICOLOGICAL INFORMATION

**Toxicity:****LD<sub>50</sub>/LC<sub>50</sub> Values Relevant for Classification:****1333-86-4 Carbon black**Oral LD<sub>50</sub> 10000 mg/kg (rat)**7440-22-4 Silver**Oral LD<sub>50</sub> >2000 mg/kg (rat)**7440-21-3 Silicon**Oral LD<sub>50</sub> 3160 mg/kg (rat)**108-88-3 Benzene, methyl-**Oral LD<sub>50</sub> 5000 mg/kg (rat)Dermal LD<sub>50</sub> 12124 mg/kg (rabbit)Inhalation LC<sub>50</sub>/4 h 5320 mg/l (mouse)

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<b>78-93-3 2-Butanone</b>		
Oral	LD <sub>50</sub>	3300 mg/kg (rat)
Dermal	LD <sub>50</sub>	5000 mg/kg (rabbit)
<b>110-82-7 Cyclohexane</b>		
Oral	LD <sub>50</sub>	12705 mg/kg (rat)
<b>7440-43-9 Cadmium</b>		
Oral	LD <sub>50</sub>	225 mg/kg (rat)
<b>13463-67-7 Titanium oxide (TiO<sub>2</sub>)</b>		
Oral	LD <sub>50</sub>	>20000 mg/kg (rat)
Dermal	LD <sub>50</sub>	>10000 mg/kg (rabbit)
Inhalation	LC <sub>50</sub> /4 h	>6.82 mg/l (rat)
<b>77-58-7 Dibutyltin dilaurate</b>		
Oral	LD <sub>50</sub>	175 mg/kg (rat)

**Acute Health Effects****Inhalation:**

The contents of a ruptured battery is harmful if inhaled. May cause respiratory irritation, drowsiness and dizziness. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Skin:**

Direct skin contact with the contents of a ruptured battery causes severe skin burns. May cause an allergic skin reaction.

**Eye:** Direct contact with the contents of a ruptured battery causes serious eye damage.

**Ingestion:**

The contents of a ruptured battery is harmful if swallowed. May be fatal if swallowed and enters airways.

**Skin Corrosion / Irritation:** Causes severe skin burns.

**Serious Eye Damage / Irritation:** Causes serious eye damage.

**Respiratory or Skin Sensitisation:**

May cause an allergic skin reaction.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Germ Cell Mutagenicity:** May cause genetic defects.

**Carcinogenicity:**

Suspected of causing cancer.

Nickel is classified by Safe Work Australia as Carcinogen Category 3.

Silica dust, crystalline, in the form of quartz or cristobalite, cadmium and cadmium compounds are classified by IARC as Group 1 - Carcinogenic to humans.

Nickel, metallic and alloys, carbon black and titanium dioxide are is classified by IARC as Group 2B - Possibly carcinogenic to humans.

Talc not containing asbestos or asbestiform fibres, polychloroprene, toluene and polyethylene are classified by IARC as Group 3 - Not classifiable as to its carcinogenicity to humans.

**Reproductive Toxicity:**

May damage fertility or the unborn child.

Benzene, methyl- is classified by Safe Work Australia as Toxic to Reproduction Category 1.

n-Hexane is classified by Safe Work Australia as Toxic to Reproduction Category 3.

**Specific Target Organ Toxicity (STOT) - Single Exposure:** May cause drowsiness and dizziness.

**Specific Target Organ Toxicity (STOT) - Repeated Exposure:**

May cause damage to organs through prolonged or repeated exposure.

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**Aspiration Hazard:** May be fatal if swallowed and enters airways.**Chronic Health Effects:**

Prolonged overexposure to decomposition products may adversely affect the lungs, blood, cardiovascular and nervous system.

**Existing Conditions Aggravated by Exposure:** No information available**Additional toxicological information:** No information available

### 12 . ECOLOGICAL INFORMATION

**Ecotoxicity:****Aquatic toxicity:** Very Toxic to aquatic life with long lasting effects.**Persistence and Degradability:** No further relevant information available.**Bioaccumulative Potential:** No further relevant information available.**Mobility in Soil:** No further relevant information available.**Other adverse effects:**

The battery cell and internal materials will remain in the environment. Do not bury or dispose of batteries in the environment.

### 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

<b>UN Number ADG, IMDG, IATA</b>	UN3480 or UN3481
<b>Proper Shipping Name ADG, IMDG, IATA</b>	LITHIUM ION BATTERIES (including lithium ion polymer batteries) or LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT or LITHIUM ION BATTERIES PACKED WITH EQUIPMENT
<b>Dangerous Goods Class ADG Class:</b>	9 Miscellaneous dangerous substances and articles.
<b>Packing Group:</b>	Not applicable
<b>Marine pollutant:</b>	Yes Symbol (fish and tree)
<b>EMS Number:</b>	F-A,S-I
<b>Special Provisions:</b>	ADG: 188, 230, 310/360, 348, 376, 377 IMDG: 188 IATA: This product can be transported as NON-DANGEROUS GOODS under "Packing instruction 965 section II" or as DANGEROUS GOODS under "Packing instruction 965 section IB".
<b>Limited Quantities:</b>	0

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**Packagings & IBCs - Packing Instruction: ADG: P903, P908, P909, LP903, LP904**

## 15 . REGULATORY INFORMATION

### Australian Inventory of Chemical Substances:

7440-31-5	Tin
7440-50-8	Copper
7440-44-0	Activated carbon
7439-89-6	Iron
14807-96-6	Talc (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> )
7440-21-3	Silicon
12047-27-7	Barium titanium trioxide
108-88-3	Benzene, methyl-
78-93-3	2-Butanone
110-82-7	Cyclohexane
110-54-3	Hexane
14808-60-7	Quartz (SiO <sub>2</sub> )
12190-79-3	Lithium colbaltite
29690-82-2	formaldehyde, polymer with 2-(chloromethyl)oxirane and 2-methylphenol
7440-02-0	Nickel

**Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule:**  
Not Scheduled.

## 16 . OTHER INFORMATION

**Date of Preparation or Last Revision:** 07.11.2016**Prepared by:** MSDS.COM.AU Pty Ltd[www.msds.com.au](http://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)  
 Flammable Liquids 2: Flammable liquids – Category 2  
 Flammable Solids 1: Flammable solids – Category 1  
 Flammable Solids 2: Flammable solids – Category 2  
 Self-heat. 1: Self-heating substances and mixtures, Hazard Category 1  
 Self-heat. 2: Self-heating substances and mixtures, Hazard Category 2  
 Acute Toxicity (Oral) 4: Acute toxicity – Category 4  
 Skin Corrosion/Irritation 1A: Skin corrosion/irritation – Category 1A  
 Skin Corrosion/Irritation 2: Skin corrosion/irritation – Category 2  
 Serious Eye Damage/Irritation 1: Serious eye damage/eye irritation – Category 1  
 Serious Eye Damage/Irritation 2: Serious eye damage/eye irritation – Category 2  
 Respiratory Sensitisation 1: Respiratory sensitisation, Hazard Category 1  
 Skin Sensitisation 1: Skin sensitisation, Hazard Category 1  
 Germ Cell Mutagenicity 1A: Germ cell mutagenicity – Category 1A  
 Germ Cell Mutagenicity 2: Germ cell mutagenicity – Category 2  
 Carcinogenicity 2: Carcinogenicity – Category 2  
 Toxic To Reproduction 1A: Reproductive toxicity – Category 1A

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Toxic To Reproduction 1B: Reproductive toxicity – Category 1B  
Toxic To Reproduction 2: Reproductive toxicity – Category 2  
STOT SE 1: Specific target organ toxicity (single exposure) – Category 1  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1  
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2  
Aspiration Hazard 1: Aspiration hazard – Category 1  
Aquatic Acute 1: Hazardous to the aquatic environment, short-term (Acute). Category 1  
Aquatic Chronic 1: Hazardous to the aquatic environment, long-term (Chronic). Category 1  
Aquatic Chronic 2: Hazardous to the aquatic environment, long-term (Chronic). Category 2

**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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