

## BIOCIDE BPA68915

### 1. Identification of the material and supplier

#### Names

**Product name** : BIOCIDE BPA68915  
**Product code** : BPA68915  
**ADG** : Corrosive liquid, acidic, organic, n.o.s. (isothiazolones)  
**Supplier** : Baker Petrolite, Australia  
5 Walker Street,  
Braeside,  
Victoria 3195,  
Australia  
  
Tel: +613 9580 9004  
Fax: +613 9580 6004

**Emergency telephone number** : AUSTRALIA: In the event of an emergency ring Orica Emergency Response Service (formerly known as SHE Pacific) 1800 033 111 for specialist advice. Note: This number is continually manned for emergencies only. CHEMTREC International: +1 703 527 3887

#### Uses

**Material uses** : Biocide

### 2. Hazards identification

**Classification** : R43  
N; R50/53

**Risk phrases** : R43- May cause sensitisation by skin contact.  
R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Safety phrases** : S24- Avoid contact with skin.  
S37- Wear suitable gloves.  
S61- Avoid release to the environment. Refer to special instructions/safety data sheet.

**Statement of hazardous/dangerous nature** : HAZARDOUS SUBSTANCE. DANGEROUS GOODS.

### 3. Composition/information on ingredients

Ingredient name	CAS number	Concentration
Magnesium nitrate	10377-60-3	1 - 5
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one[EC no. 247-500-7]and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	55965-84-9	1 - 5

Other ingredients, determined not to be hazardous according to NOHSC criteria, and not dangerous according to the ADG Code, make up the product concentration to 100%.

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.**

### 4. First-aid measures

**Inhalation** : Move exposed person to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

## 4 . First-aid measures

- Ingestion** : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 15 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 15 minutes. Get medical attention if irritation occurs.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
- Advice to doctor** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

## 5 . Fire-fighting measures

- Suitable** : Use an extinguishing agent suitable for the surrounding fire.
- Not suitable** : None known.
- Special exposure hazards** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. This material is very toxic to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
nitrogen oxides  
sulfur oxides  
halogenated compounds  
metal oxide/oxides
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
- Hazchem code** : 2X

## 6 . Accidental release measures

- Personal precautions** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).
- Environmental precautions** : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
- Small spill** : Stop leak if without risk. Move containers from spill area. Dispose of via a licensed waste disposal contractor. Absorb with an inert dry material and place in an appropriate waste disposal container.

## **6 . Accidental release measures**

- Large spill** : Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

## **7 . Handling and storage**

- Storage** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

## **8 . Exposure controls/personal protection**

### Occupational exposure limits

Ingredient name  
Magnesium nitrate

Exposure limits  
**SWA (Australia, 8/2005).**  
TWA: 1 mg/m<sup>3</sup>, (as Mn) 8 hour(s). Form: Dust

- Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.
- Engineering measures** : No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.
- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eyes** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.
- Hands** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Respiratory** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- Skin** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## **9 . Physical and chemical properties**

<b>Physical state</b>	: Liquid.
<b>Colour</b>	: Grey. / Yellow.
<b>Odour</b>	: Characteristic.
<b>Relative density</b>	: 1.03 (20°C)
<b>pH</b>	: 3 to 5
<b>Solubility</b>	: Soluble in water.

## **10 . Stability and reactivity**

<b>Chemical stability</b>	: The product is stable.
<b>Possibility of hazardous reactions</b>	: Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid</b>	: Avoid release to the environment. Refer to special instructions/safety data sheet.
<b>Materials to avoid</b>	: No specific data.
<b>Hazardous decomposition products</b>	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## **11 . Toxicological information**

### Potential acute health effects

<b>Inhalation</b>	: Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
<b>Ingestion</b>	: No known significant effects or critical hazards.
<b>Skin contact</b>	: May cause sensitisation by skin contact.
<b>Eye contact</b>	: No known significant effects or critical hazards.

### Acute toxicity

<b>Product/ingredient name</b>	<b>Result</b>	<b>Species</b>	<b>Dose</b>	<b>Exposure</b>
Magnesium nitrate	LD50 Oral	Rat	5440 mg/kg	-
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one[EC no. 247-500-7]and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	LD50 Oral	Rat	53 mg/kg	-

**Conclusion/Summary** : Not available.

### Potential chronic health effects

#### Chronic toxicity

**Conclusion/Summary** : Not available.

#### Irritation/Corrosion

**Conclusion/Summary** : Not available.

#### Sensitiser

**Conclusion/Summary** : Not available.

#### Carcinogenicity

**Conclusion/Summary** : Not available.

#### Mutagenicity

**Conclusion/Summary** : Not available.

#### Teratogenicity

**Conclusion/Summary** : Not available.

#### Reproductive toxicity

**Conclusion/Summary** : Not available.

#### Chronic effects

: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

#### Carcinogenicity

: No known significant effects or critical hazards.

#### Mutagenicity

: No known significant effects or critical hazards.

#### Teratogenicity

: No known significant effects or critical hazards.

## 11 . Toxicological information

<b>Developmental effects</b>	: No known significant effects or critical hazards.
<b>Fertility effects</b>	: No known significant effects or critical hazards.
<b>Inhalation</b>	: No specific data.
<b>Ingestion</b>	: No specific data.
<b>Skin</b>	: Adverse symptoms may include the following: irritation redness
<b>Eyes</b>	: No specific data.
<b>Target organs</b>	: Contains material which may cause damage to the following organs: upper respiratory tract, skin, eyes.








## 12 . Ecological information

<b>Ecotoxicity</b>	: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
<b>Aquatic ecotoxicity</b>	
<b>Conclusion/Summary</b>	: Not available.
<b>Other ecological information</b>	
<b>Persistence/degradability</b>	
<b>Conclusion/Summary</b>	: Not available.
<b>Other adverse effects</b>	: No known significant effects or critical hazards.

## 13 . Disposal considerations

<b>Methods of disposal</b>	: This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.
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## 14 . Transport information

Regulation	UN number	Proper shipping name	Classes	PG*	Label	Additional information
<b>ADG</b>	UN3265	Corrosive liquid, acidic, organic, n.o.s. (isothiazolones)	8	III		<b>Hazchem code</b> 2X
<b>ADR</b>	UN3265	Corrosive liquid, acidic, organic, n.o.s. (isothiazolones)	8	III	 	<b>UK Hazchem:</b> 2X
<b>IMDG</b>	UN3265	Corrosive liquid, acidic, organic, n.o.s. (isothiazolones)	8	III	 	-
<b>IATA</b>	UN3265	Corrosive liquid, acidic, organic, n.o.s. (isothiazolones)	8	III	 	-

PG\* : Packing group

## 15 . Regulatory information

### Standard for the Uniform Scheduling of Drugs and Poisons

Not regulated.

### Control of Scheduled Carcinogenic Substances

#### Ingredient name

No listed substance

#### Schedule

**Australia inventory (AICS)** : All components are listed or exempted.

**EU Classification** : R43  
N; R50/53

**HCS Classification** : Toxic material  
Irritating material  
Carcinogen  
Target organ effects

**Risk phrases** : R43- May cause sensitisation by skin contact.  
R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Safety phrases** : S24- Avoid contact with skin.  
S37- Wear suitable gloves.  
S61- Avoid release to the environment. Refer to special instructions/safety data sheet.

**National regulations** : **National Code of Practice for the Control of Workplace Hazardous Substances. National Code of Practice for the Labelling of Workplace Substances. National Code of Practice for the Preparation of Material Safety Data Sheets. Approved Criteria for Classifying Hazardous Substances.**

## 16 . Other information

**Date of printing** : 8/2/2010.

**Date of issue/ Date of revision** : 8/2/2010.

**Date of previous issue** : No previous validation.

**Version** : 1.01

☑ Indicates information that has changed from previously issued version.

### Disclaimer

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Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.