Product Name: DISINFECTANT BORONIA – COMMERCIAL GRADE

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier Name: CLEAN PLUS CHEMICALS PTY LTD
Address: 16 George Young Street, AUBURN, NSW, 2144
Telephone: 02 9738 7444
Fax: 02 9644 1777
Emergency: 1800 201 700
Email: info@cleanplus.com.au
Web Site: http://www.cleanplus.com.au

Synonym(s): DISINFECTANT BORONIA • PRODUCT CODE – 225

Use(s): DISINFECTANT • GENERAL PURPOSE CLEANER

SDS Date:
- 15 April 2011 V2
- 2 July 2012 V3
- 30 January 2015 v4

2. HAZARDS IDENTIFICATION

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO NOHSC/ASCC CRITERIA
NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

UN No.: None Allocated
DG Class: None Allocated
Subsidiary Risk(s): None Allocated
Packing Group: None Allocated
Hazchem Code: None Allocated
EPG: None Allocated

3. COMPOSITION/ INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Formula</th>
<th>CAS No.</th>
<th>Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>WATER</td>
<td>H2O</td>
<td>7732-18-5</td>
<td>&gt;60%</td>
</tr>
<tr>
<td>ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE</td>
<td>Not Available</td>
<td>63449-41-2</td>
<td>1-10%</td>
</tr>
<tr>
<td>NON HAZARDOUS INGREDIENTS</td>
<td>Not Available</td>
<td>Not Available</td>
<td>Remainder</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

Eye: If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poison Information Centre or a doctor, or for at least 15 minutes.
Skin If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre or a doctor.

Inhalation If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.

Ingestion For advice, contact a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If swallowed, do not induce vomiting.

Advice to Doctor Treat symptomatically

5. FIRE FIGHTING MEASURES

Flammability Non flammable. May evolve toxic gases if strongly heated.

Fire and Explosion Non flammable. No fire or explosion hazard exists.

Extinguishing Non flammable. Prevent contamination of drains or waterways.

Hazchem Code None Allocated.

6. ACCIDENTAL RELEASE MEASURES

Spillage If spilt (bulk), wear splash-proof goggles and PVC/rubber gloves. Absorb spill with sand or similar and place in sealed containers for disposal. Wash spill site down with water. For small amounts, dilute with water and flush to sewer. Caution: surfaces may be slippery.

7. STORAGE AND HANDLING

Storage Store in cool, dry, well ventilated area, removed from acids, combustible materials and foodstuffs. Ensure containers are adequately labeled, protected from physical damage and sealed when not in use. Check regularly for leaks or spills.

Handling Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Exposure Stds No exposure standard(s) allocated.

Biological Limits No biological limit allocated.

Engineering Controls Ensure adequate natural ventilation.

PPE Wear splash-proof goggles and PVC or rubber gloves. When using large quantities or where heavy contamination is likely, wear: coveralls

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance PURPLE THIN LIQUID

Solubility (Water) SOLUBLE
### Odour
SHARP BORONIA FRAGRANCE

### Specific Gravity
0.99 - 1.01

### Ph
8.5 – 9.5

### Vapour Pressure
18 mg Hg @ 20 °C (Water)

### Vapour Density
NOT AVAILABLE

### Boiling Point
100°C (Approximately)

### Melting Point
NOT AVAILABLE

### Evaporation Rate
AS FOR WATER

### Chemical Stability
Stable under recommended conditions of storage.

### Conditions to Avoid
Avoid heat, sparks, open flames and other ignition sources.

### Material to Avoid
Incompatible with oxidising agents (e.g. hypochlorites, peroxides), anionic detergents (e.g. soaps), heat and ignition sources.

### Decomposition
May evolve toxic gas if heated to decomposition.

### Hazardous Reactions
Polymerization is not expected to occur.

### Health Hazard
Low irritant - low toxicity. No adverse health effects are anticipated with normal use of this product.

### Eye
Irritant. Contact may result in irritation, lacrimation, pain and redness.

### Inhalation
Low irritant. Over exposure to vapours/mists may result in respiratory irritation, nausea, and headache. Occupational exposure to quaternary ammonium compounds has been reported to cause asthma, although rare. Due to the low vapour pressure an inhalation hazard is not anticipated, unless sprayed.

### Skin
Low irritant. Prolonged or repeated contact may result in mild irritation.

### Ingestion
Low toxicity. Ingestion of large quantities may result in nausea, vomiting and gastrointestinal irritation.

### Toxicity Data
ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE (68424-85-1)
- LD50 (Ingestion): 426mg/kg (rat)
- LD50 (Intraperitoneal): 100mg/kg (rat)

### Environment
Benzalkonium chloride derivatives/quaternary ammonium compounds are commonly used as disinfectants, indicating toxicity to microorganisms. Benzalkonium chloride is toxic to trout above 2 ppm.
Waste Disposal  For small amounts, absorb with sand, vermiculite or similar and dispose of to an approved landfill site. For larger amounts, contact the manufacturer for additional information. Prevent contamination of drains or waterways as aquatic life may be threatened and environmental damage may result...

Legislation  Dispose of in accordance with relevant local legislation.

14. TRANSPORT INFORMATION

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

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15. REGULATORY INFORMATION

Poison Schedule  A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).

AICS  All chemicals listed on the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

Additional Information

BENZALKONIUM CHLORIDE: Benzalkonium chloride can be a severe eye & skin irritant & corrosive. Contact with concentrated solutions can cause deep injury and ulceration. A 0.1% concentration will cause mild discomfort to the eye. Ingestion may cause a burning pain in the mouth, throat and abdomen, salivation, low blood pressure, CNS depression, excitement, confusion and weakness, labored breathing & cyanosis (blue skin due to the lack of oxygen in the blood) or circulatory shock. When used in low concentrations there is little local or systemic toxicity.

RESPIRATORS: In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirator may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

ABBREVIATIONS:
ADB - Air-Dry Basis.
BEI - Biological Exposure Indice(s)
CAS# - Chemical Abstract Service number - used to uniquely identify chemical compounds.
CNS - Central Nervous System.
EINECS - European Inventory of Existing Commercial chemical Substances.
IARC - International Agency for Research on Cancer.
M - moles per litre, a unit of concentration.
mg/m3 - Milligrams per cubic meter.
NOS - Not Otherwise Specified.
NTP - National Toxicology Program.
OSHA - Occupational Safety and Health Administration.
\(\text{pH}\) - relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).
ppm - Parts Per Million.
RTECS - Registry of Toxic Effects of Chemical Substances.
TWA/ES - Time Weighted Average or Exposure Standard.
HEALTH EFFECTS FROM EXPOSURE:

It should be noted that the effects from exposure to this product will depend on several factors including:

- frequency and duration of use;
- quantity used;
- effectiveness of control measures;
- protective equipment used and method of application.

Given that it is impractical to prepare a Clean Plus Chemicals report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this Clean Plus Chemicals report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

Report Status

This Safety Data Sheet document has been compiled by Clean Plus Chemicals. Further clarification regarding any aspect of this product should contact Clean Plus Chemicals. While Clean Plus Chemicals has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, Clean Plus Chemicals accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

End of Report

Prepared By

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