

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

| | |
|---------------------|---|
| Product Name | PurCool Tablets |
| Synonym(s) | Purcool Tablet # PC200, Shock Tabs # PCST12 |
| CAS # | Mixture |
| Product Use | Air conditioner drain pan cleaning & treatment |
| Manufacturer | ClenAir Manufacturing Inc. Box 346 Fort Washington, PA 19034 US Phone: 1-888-764-2110 Emergency(24 hr) 1-800-424-9300 |

2. Hazards Identification

| | |
|--|--|
| Emergency Overview | DANGER MAY CAUSE CHEMICAL BURNS TO EYES AND SKIN. |
| Potential short term health effects | |
| Routes of exposure | Eye, Skin contact, Ingestion. |
| Eyes | May cause severe irritation or chemical burns. |
| Skin | May cause severe irritation or chemical burns. |
| Inhalation | Not a normal route of harmful exposure. |
| Ingestion | Harmful if swallowed. May cause chemical burns to mouth, throat and stomach. |
| Target organs | Eyes. Skin. |
| Chronic effects | Prolonged or repeated exposure can cause drying, defatting and dermatitis. |
| Signs and symptoms | The product may cause burns to eyes, skin and mucous membranes. |
| Potential environmental effects | See section 12. |

3. Composition/Information on Ingredients

| Ingredient(s) | CAS # | Percent |
|---|--------------|----------------|
| Sodium borate | 1330-43-4 | 10 - 30 |
| Quaternary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides | 68956-79-6 | 10 - 30 |
| Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides | 68391-01-5 | 10 - 30 |

4. First Aid Measures

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|-----------------------------|---|
| First aid procedures | |
| Eye contact | Immediately flush with cool water. Remove contact lenses, if applicable, and continue flushing for 15 minutes. Obtain medical attention if irritation develops or persists. |
| Skin contact | Immediately flush with cool water for 15 minutes while removing contaminated clothing and shoes. Discard or wash well before reuse. Obtain medical attention if irritation persists. |
| Inhalation | Not a normal route of exposure. |
| Ingestion | Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention. |
| Notes to physician | Treat patient symptomatically. |
| General advice | If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children. |

5. Fire-fighting Measures

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|-----------------------------|----------------------------------|
| Flammable properties | Not flammable by WHMIS criteria. |
|-----------------------------|----------------------------------|

Extinguishing media

Suitable extinguishing media Dry chemical. Carbon dioxide. Alcohol foam. Fog.

Unsuitable extinguishing media Not available

Protection of firefighters

Specific hazards arising from the chemical Not available

Protective equipment for firefighters Firefighters should wear full protective clothing including self contained breathing apparatus.

Hazardous combustion products May include and are not limited to: Oxides of carbon.

Explosion data

Sensitivity to mechanical impact Not available

Sensitivity to static discharge Not available

6. Accidental Release Measures

Personal precautions Wear appropriate personal protective equipment.

Environmental precautions Do not discharge into lakes, streams, ponds or public waters.

Methods for containment None necessary.

Methods for cleaning up Sweep up or gather material and place in appropriate container for disposal.

7. Handling and Storage

Handling DANGER -- CORROSIVE
Use good industrial hygiene practices in handling this material.
DO NOT get in eyes.
DO NOT get on skin.
Wash thoroughly after handling.

Storage Keep out of the reach of children.
Store in original packaging and shipping container.
Keep away from heat, open flames or other sources of ignition.

8. Exposure Controls / Personal Protection

Exposure limit values

| Ingredient(s) | Exposure limit values |
|---------------|-----------------------|
|---------------|-----------------------|

| | |
|---|-------------------------------------|
| Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides | ACGIH-TLV Not established |
|---|-------------------------------------|

| | |
|---|-------------------------------------|
| Quaternary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides | ACGIH-TLV Not established |
|---|-------------------------------------|

| | |
|---------------|---|
| Sodium borate | ACGIH-TLV TWA: 2 mg/m ³ STEL: 6 mg/m ³ |
|---------------|---|

Engineering controls General ventilation normally adequate.

Personal protective equipment

Eye/Face protection Safety glasses if eye contact is possible.

Hand protection Rubber gloves. Confirm with a reputable supplier first.

Skin and body protection As required by employer code.

Respiratory protection Not normally required.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

9. Physical and Chemical Properties

Appearance Tablet

Colour White

| | |
|---|----------------|
| Form | Solid |
| Odour | Mild |
| Odour threshold | Not available |
| Physical state | Solid |
| pH | 7 - 7.8 |
| Freezing point | Not available |
| Boiling point | Not available |
| Pour point | Not available |
| Evaporation Rate | Not available |
| Flash point | Not available |
| Auto-ignition temperature | Not available |
| Flammability limits in air, lower, % by volume | Not applicable |
| Flammability Limits in Air, Upper, % by Volume | Not applicable |
| Vapour pressure | Not available |
| Vapour density | Not available |
| Specific gravity | 1.2 (water=1) |
| Octanol/water coefficient | Not available |
| Solubility (H2O) | Soluble |

10. Stability and Reactivity

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|---|---|
| Reactivity | None known. |
| Possibility of hazardous reactions | Hazardous polymerisation does not occur. |
| Chemical stability | Stable under recommended storage conditions. |
| Conditions to avoid | Do not mix with other chemicals. |
| Incompatible materials | Caustics. Acids. Oxidizers. |
| Hazardous decomposition products | May include and are not limited to: Oxides of carbon. |

11. Toxicological Information

Component analysis - LC50

| Ingredient(s) | LC50 |
|---|---------------|
| Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides | Not available |
| Quaternary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides | Not available |
| Sodium borate | Not available |

Component analysis - Oral LD50

| Ingredient(s) | LD50 |
|---|----------------------------------|
| Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides | 240 mg/kg rat |
| Quaternary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides | 250 mg/kg rat |
| Sodium borate | 1060 mg/kg mouse; 2403 mg/kg rat |

Effects of acute exposure

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|------------------------|--|
| Eye | May cause severe irritation or chemical burns. |
| Skin | May cause severe irritation or chemical burns. |
| Inhalation | Not a normal route of harmful exposure. |
| Ingestion | Harmful if swallowed. May cause chemical burns to mouth, throat and stomach. |
| Sensitisation | Non-hazardous by WHMIS criteria. |
| Chronic effects | Non-hazardous by WHMIS criteria. |

| | | |
|---|--|--|
| Carcinogenicity | Non-hazardous by WHMIS criteria. | |
| ACGIH - Threshold Limit Values - Carcinogens | | |
| Sodium borate | 1330-43-4 | A4 - Not Classifiable as a Human Carcinogen (listed under Borate compounds, inorganic) |
| Mutagenicity | Non-hazardous by WHMIS criteria. | |
| Reproductive effects | Borates may cause harmful reproductive effects based on animal data. | |
| Teratogenicity | Non-hazardous by WHMIS criteria. | |
| Name of Toxicologically Synergistic Products | Not available | |

12. Ecological Information

| | | |
|---|---------------|--|
| Ecotoxicity | See below | |
| Ecotoxicity - Freshwater Algae - Acute Toxicity Data | | |
| Sodium borate | 1330-43-4 | 96 Hr EC50 <i>Desmodesmus subspicatus</i> : 158 mg/L; 96 Hr EC50 <i>Pseudokirchneriella subcapitata</i> : 2.6 - 21.8 mg/L [static] |
| Ecotoxicity - Freshwater Fish - Acute Toxicity Data | | |
| Sodium borate | 1330-43-4 | 96 Hr LC50 <i>Limanda limanda</i> : 340 mg/L |
| Ecotoxicity - Water Flea - Acute Toxicity Data | | |
| Sodium borate | 1330-43-4 | 48 Hr LC50 <i>Daphnia magna</i> : 1085 - 1402 mg/L |
| Persistence and degradability | Not available | |
| Bioaccumulation/accumulation | Not available | |
| Mobility in environmental media | Not available | |
| Environmental effects | Not available | |
| Aquatic toxicity | Not available | |
| Partition coefficient | Not available | |
| Chemical fate information | Not available | |
| Other adverse effects | Not available | |

13. Disposal Considerations

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| Disposal instructions | Review federal, provincial, and local government requirements prior to disposal. |
| Waste from residues / unused products | Not available |
| Contaminated packaging | Not available |

14. Transport Information

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|---|-----------------------------------|
| U.S. Department of Transportation (DOT) | Not regulated as dangerous goods. |
| Transportation of Dangerous Goods (TDG - Canada) | Not regulated as dangerous goods. |

15. Regulatory Information

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|--|---|-----|
| Canadian federal regulations | This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations. | |
| Canada - WHMIS - Ingredient Disclosure List | | |
| Sodium borate | 1330-43-4 | 1 % |
| WHMIS classification | Class D - Division 2A, Class E - Corrosive Material | |
| WHMIS status | Controlled | |
| WHMIS labeling | | |



Inventory Status

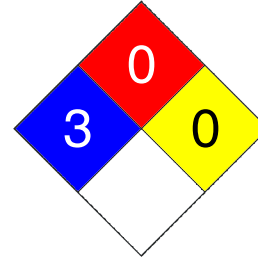
| Country(s) or region | Inventory Name | On Inventory (Yes/No)* |
|----------------------|-------------------------------------|------------------------|
| Canada | Domestic Substances List (DSL) | Yes |
| Canada | Non-Domestic Substances List (NDSL) | No |

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

| LEGEND HMIS/NFPA | |
|---------------------|---|
| Severe | 4 |
| Serious | 3 |
| Moderate | 2 |
| Slight | 1 |
| Minimal | 0 |

| | |
|---------------------|-----|
| Health | * 3 |
| Flammability | 0 |
| Physical Hazard | 0 |
| Personal Protection | X |

**Disclaimer**

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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Prepared by

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Other Information

For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.

This MSDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.