

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name	PurCool Pan Strips
Synonym(s)	Yellow Part #'s 1903D, 2001D, 2003D, 2009
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
Ethylene glycol	107-21-1	0.5 - 1.5
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	68424-85-1	15 - 40

4. First Aid Measures

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	Not a normal route of exposure. 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

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	<p>DANGER -- CORROSIVE</p> <p>Use good industrial hygiene practices in handling this material.</p> <p>DO NOT get in eyes.</p> <p>DO NOT get on skin.</p> <p>Do not open packaging if product is not to be used within 6 hours.</p> <p>Wash thoroughly after handling.</p>
Storage	<p>Keep out of the reach of children.</p> <p>Store in original packaging and shipping container.</p> <p>Keep away from heat, open flames or other sources of ignition.</p>

8. Exposure Controls / Personal Protection

Exposure limit values	
Ingredient(s)	Exposure limit values
Ethylene glycol	<p>ACGIH-TLV</p> <p>Ceiling: 100 mg/m3</p>
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	<p>ACGIH-TLV</p> <p>Not established</p>
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	Rubbery
Colour	Yellow
Form	Strip
Odour	None
Odour threshold	Not available
Physical state	Solid
pH	7 - 7.8

Melting point	90.00 - 95.00 °C (194 - 203 °F)
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)	Slowly soluble

10. Stability and Reactivity

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
Ethylene glycol	Not available
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	Not available

Component analysis - Oral LD50

Ingredient(s)	LD50
Ethylene glycol	7500 mg/kg mouse; 6.6 g/kg guinea pig; 5 g/kg rabbit
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	426 mg/kg rat

Effects of acute exposure

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

Ethylene glycol	107-21-1	A4 - Not Classifiable as a Human Carcinogen
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Mutagenicity	Non-hazardous by WHMIS criteria.
Reproductive effects	Non-hazardous by WHMIS criteria.
Teratogenicity	In rats and mice exposed to ethylene glycol, embryotoxic (late resorptions), fetotoxic (reduced fetal body weight) and teratogenic (external, soft tissue and skeletal defects) effects were observed at relatively high oral doses that caused no or minimal maternal toxicity.

12. Ecological Information

Ecotoxicity See below

Ecotoxicity - Freshwater Algae - Acute Toxicity Data

Ethylene glycol 107-21-1 96 Hr EC50 *Pseudokirchneriella subcapitata*: 6500 - 13000 mg/L

Ecotoxicity - Freshwater Fish - Acute Toxicity Data

Ethylene glycol 107-21-1 96 Hr LC50 *Oncorhynchus mykiss*: 41000 mg/L; 96 Hr LC50 *Oncorhynchus mykiss*: 14 - 18 mL/L [static]; 96 Hr LC50 *Lepomis macrochirus*: 27540 mg/L [static]; 96 Hr LC50 *Oncorhynchus mykiss*: 40761 mg/L [static]; 96 Hr LC50 *Pimephales promelas*: 40000 - 60000 mg/L [static]; 96 Hr LC50 *Poecilia reticulata*: 16000 mg/L [static]

Ecotoxicity - Water Flea - Acute Toxicity Data

Ethylene glycol 107-21-1 48 Hr EC50 *Daphnia magna*: 46300 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

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

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

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

Ethylene glycol 107-21-1 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

Disclaimer

Issue date

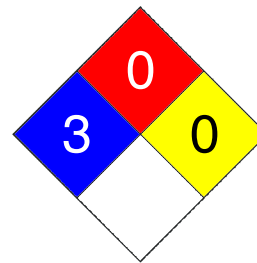
Effective Date

Expiry Date

Prepared by

Other Information

Health	* 3
Flammability	1
Physical Hazard	0
Personal Protection	X



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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Dell Tech Laboratories Ltd. (519) 858-5021

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.