

SAFETY DATA SHEET



Hydro-Chem Systems, Inc.

Pure Guard

Date: 2-23-16

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name Pure Guard

Other Means of Identification

Product Class	Quaternary Ammonium Chloride Compound
EPA Registration Number	1839-86-47050
Product Codes	
5 Gal	141807
55 Gal	141805
275 Gal	141809

Recommended Use of the Chemical and Restrictions on Use

Recommended Use Sanitizer, Disinfectant, Deodorizer, Virucide, Mildewstat

Details of the Supplier of the Safety Data Sheet

Manufactured For Hydro-Chem Systems, Inc.
5550 Clay Avenue SW
Grand Rapids, MI 49548

Emergency Telephone Number

Company Phone Number 616-531-6420

Emergency Telephone - PERS 1.800.633.8253 #9120 (Emergency Contact for Hazardous Materials Accidents, Spills or Leaks Only!)

2. HAZARDS IDENTIFICATION

Classification

Health Hazards

Acute Toxicity, Oral	Category 4
Acute Toxicity, inhalation	Category 4
Skin corrosion/ Irritation	Category 1 Sub-Category B
Serious eye damage/eye irritation	Category 1
Specific target organ toxicity (single exposure)	Category 2

Signal Word

DANGER

Hazard Statements

Causes burns. Causes eye and skin irritation.
Harmful if swallowed. Contains material that may cause target organ damage, based on animal data.

OSHA/HCS status:

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Read complete product label.



NOTE: Pictograms not permitted on label. EPA Reg. Product
See section 15 Regulatory Information

Appearance Clear**Physical State** Liquid**Odor** Odorless**Precautionary Statements - Prevention**

Keep container tightly closed. Keep away from heat, sparks and flame. No smoking. Use only with adequate ventilation. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear protective equipment as required.

Precautionary Statements - Response

Immediately call a POISON CENTER or doctor/physician

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Immediately call a POISON CENTER or doctor/physician

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Immediately call a POISON CENTER or doctor/physician

IF SWALLOWED: Immediately call a doctor or poison control center. Rinse mouth. DO NOT induce vomiting

Precautionary Statements - Storage

Store locked up. Keep container tightly closed when not in use. Store in a cool, well ventilated place. KEEP OUT OF REACH OF CHILDREN.

Precautionary Statements - Disposal

Dispose of contents/container in accordance with all regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Alkyl dimethyl benzyl ammonium chloride	68391-01-5	< 6
Alkyl dimethyl ethylbenzyl ammonium chloride (C12-18)	68956-79-6	< 6

4. FIRST AID MEASURES**First Aid Measures**

Inhalation Move to fresh air. If breathing is difficult give oxygen. If symptoms persist, call a physician.

Eye Contact Immediately flush with plenty of water. Remove contact lenses and continue flushing with water for 15 minutes. Call a physician immediately.

Ingestion Do NOT induce vomiting. Rinse mouth. Call a poison control center or doctor immediately for treatment advice. Never give anything by mouth to an unconscious person.

Skin Contact

Take off contaminated clothing. Rinse skin with plenty of water for 15 minutes. Call a poison control center or doctor for treatment advice. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.

Indication of any Immediate Medical Attention and Special Treatment Needed

If the product is ingested, probable mucosal damage may contraindicate the use of gastric lavage.

Note to Physicians

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water fog, foam, dry chemical powder. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

Do not use water jet.

Specific Hazards Arising from the Chemical

During fire, gasses hazardous to health may be formed. Use water spray to keep fire-exposed containers cool.

Protective Equipment and Precautions for Firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions

Immediately evacuate personnel to safe areas. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe vapors.

Methods and Material for Containment and Cleaning Up

Methods for Containment

Keep unnecessary and unprotected personnel away. Shut off all ignition sources. Prevent further leakage or spillage if safe to do so. Local authorities should be advised if significant spillages cannot be contained.

Methods for Cleaning Up

Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into container for later disposal. Do not flush into surface water or sanitary sewer system. Dispose of the waste material according to local, state and government requirements. Following product recovery, flush area with water.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Advice on Safe Handling

Vapors may form explosive mixtures with air. Do not handle, store or open near and open flame or other source of heat or ignition. Protect material from direct sunlight. All equipment used when handling product must be grounded. Do not breathe vapor. Use personal protective equipment as required. Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes or clothing. Do not taste or swallow. In case of insufficient ventilation, wear suitable respiratory equipment. Use only with adequate ventilation or outdoors. Wash hands thoroughly after handling.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions	Store locked up. Keep containers tightly closed in a dry, cool and well ventilated place with a temperature not lower than 50°F or higher than 120°F. Keep away from heat, sparks and open flame. Store out of direct sunlight, and away from incompatible materials.
Incompatible Materials	Incompatible with strong oxidizing agents, anionic surfactants.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

No information available regarding exposure limits.

Appropriate Engineering Controls

Engineering Controls	Ensure adequate ventilation, especially in confined areas. Eye wash facilities and emergency shower must be available when handling this product.
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Individual Protection Measures, such as Personal Protective Equipment

Eye/Face Protection	Tight sealing safety goggles, face protection shield.
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Skin and Body Protection	Wear protective gloves.
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Respiratory Protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive pressure supplied respirators may be required for high airborne contaminant concentrations.
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General Hygiene Considerations	When using this product do not eat, drink, or smoke. Wash contaminated clothing before reuse. Handle in accordance with good industrial hygiene and safety practice.
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9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	Liquid		
Appearance	Clear or Red	Odor	Odorless
Color	Clear or Red	Odor Threshold	N/A
Property	Values	Remarks • Method	
pH	7.5 – 8.5		
Flash Point	>200°F	Pensky-Martens Closed Cup	
Evaporation Rate	Estimated slower than ethyl ether		
Specific Gravity	1.00		
Water Solubility	Complete		

10. STABILITY AND REACTIVITY

Chemical Stability

Stable under normal use, storage and transport conditions.

Possibility of Hazardous Reactions

None under normal processing and storage.

Conditions to Avoid

Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible Materials

Strong oxidizing agents, anionic surfactants.

Hazardous Decomposition Products

Upon decomposition, this product may yield oxides of nitrogen and ammonia, carbon dioxide, carbon monoxide and other low molecular weight hydrocarbons.

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Inhalation	Not likely, due to the form of the product.
Eye Contact	Contact with eyes may cause serious eye damage.
Skin Contact	Contact may cause severe skin irritation.
Ingestion	Harmful if swallowed.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Quaternary Ammonium Chloride 68391-01-5, 68956-79-6	344 mg/kg (Rat)	>2000 mg/kg (Rabbit)	0.054 – 0.51 mg/l

Information on Physical, Chemical and Toxicological Effects

Symptoms	May cause severe skin burns and eye damage.
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Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure

Carcinogenicity	No components of this product have been identified as a carcinogen or potential carcinogen by ACGIH, OSHA, IARC or NTP.
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12. ECOLOGICAL INFORMATION

Ecotoxicity

No known significant or critical hazards.

Persistence and Degradability

Biodegradable

Bioaccumulation

No information available.

Other Adverse Effects

No information available.

13. DISPOSAL CONSIDERATIONS

Disposal of Wastes	PESTICIDE DISPOSAL – Pesticides wastes are acutely hazardous. Improper disposal of excess pesticide is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions contact your State Pesticide or Environmental Control Agency, or the hazardous waste representative at the nearest EPA regional office for guidance.
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Containers	Non-refillable container. Do not reuse or refill container. Clean container promptly after emptying. Triple rinse as follows: Fill container 1/4 full with water and recap. Agitate vigorously. Follow Pesticide Disposal instructions for rinsate disposal. Drain for 10 seconds After the flow begins to drip. Repeat procedure two more times. Offer for recycling or reconditioning, if available. If not available, puncture and dispose in a sanitary landfill.
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14. TRANSPORT INFORMATION

Note

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

US – Ground Transportation:

DOT

UN/ID No	UN1760
Proper Shipping Name	Corrosive Liquid, N.O.S. (Quaternary Ammonium Compound)
Hazard Class	8
Packing Group	III

IATA

UN/ID No	UN1760
Proper Shipping Name	Corrosive Liquid, N.O.S. (Quaternary Ammonium Compound)
Hazard Class	8
Packing Group	III

IMDG

UN/ID No	UN1760
Proper Shipping Name	Corrosive Liquid, N.O.S. (Quaternary Ammonium Compound)
Hazard Class	8
Packing Group	III

15. REGULATORY INFORMATION

International Inventories

Listed Yes or No

TSCA	United States Toxic Substances Control Act Section 8(b) Inventory	Yes
DSL	Canadian Domestic Substances List	Yes
NDSL	Non-Domestic Substances List	No
EINECS	European Inventory of Existing Chemical Substances	Yes
ELINCS	European List of Notified Chemical Substances	No
ENCS	Japan Existing and New Chemical Substances	Yes
IECSC	China Inventory of Existing Chemical Substances	Yes
KECL	Korean Existing and Evaluated Chemical Substances	Yes
PICCS	Philippines Inventory of Chemicals and Chemical Substances	Yes
New Zealand	New Zealand Inventory	Yes

US Federal Regulations

This product is a pesticide registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals.

US State Regulations

No components over 1% are found on any state substance lists.

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazards	Flammability	Instability	
	2	1	0	
<u>HMIS</u>	Health Hazards	Flammability	Physical Hazards	Personal Protection
	2	1	0	B

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet