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SAFETY DATA SHEET

Issue Date: 29 October 2015

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Version 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name: **CLEAN GUARD**

Product Description: **WINDSHIELD WASH & DE-ICER**

Other Means of Identification

Product # 055
Synonyms None

Details of the Supplier of the Safety Data Sheet

Company Name CHEMCO INDUSTRIES, INC.
5731 Manchester Avenue
St. Louis, MO 63110
www.chemcoindustries.com
314-647-1888
1-800-854-4236 (to Reorder)

Emergency Telephone Number

Emergency Telephone INFOTRAC 1-800-535-5053

2. HAZARDS IDENTIFICATION

Classification (GHS-US)

Acute Tox. 4 (Oral) H302
STOT RE 2 H373

*Full text of H-phrases: see section 16

GHS-US Labeling

Hazard pictograms (GHS-US):



Signal Word (GHS-US): Warning

Hazard Statements (GHS-US):

Harmful if swallowed.
May cause damage to organs through prolonged or repeated exposure

Precautionary statements (GHS-US):

Do not breathe mist, spray
Wash thoroughly after handling
Do not eat, drink, or smoke when using this product.
Wear eye protection, protective clothing, protective gloves
If swallowed: Call a doctor, a POISON CENTER if you feel unwell.
Get medical advice/attention if you feel unwell.
Rinse mouth
Dispose of contents/container to comply with local/regional/national/international regulations

Other hazards: No additional information available

Unknown acute toxicity (GHS-US): Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance: Not applicable

*Full text of H-phrases: see section 16

Mixture:

Name	Product identifier	%	Classification (GHS-US)
Ethanediol, ethylene glycol	(CAS No) 107-21-1	40-70	Acute Tox. 4 (oral), H302
2,2'-oxybisethanol, diethylene glycol	(CAS No) 111-46-6	1-5	Acute Tox. 4 (oral), H302 STOT RE 2, H373

4. FIRST AID MEASURES

Description of first aid measures:

First-aid measures general:

If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation:

Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact:

Wash with plenty of soap and water.

First-aid measures after eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

First-aid measures after ingestion:

Rinse mouth. Call a poison center or a doctor if you feel unwell.

Most important symptoms and effects, both acute and delayed:

Symptoms/injuries:

May cause damage to organs through prolonged or repeated exposure.

Symptoms/injuries after inhalation:

No effects known.

Symptoms/injuries after skin contact:

Contact during a long period may cause light irritation

Symptoms/injuries after eye contact:

Direct contact with eyes is likely irritating.

Symptoms/injuries after ingestion:

Harmful if swallowed.

Indication of any immediate medical attention and special treatment needed:

No additional information available.

5. FIRE-FIGHTING MEASURES

Extinguishing media:

Suitable extinguishing media:

All extinguishing media allowed.

Special hazards arising from the substance or mixture:

Reactivity:

Upon combustion: CO and CO2 are formed.

Advice for firefighters:

Firefighting instructions:

Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers. Take account of environmentally hazardous firefighting water.

Protection during firefighting:

Do not enter fire area without proper protective equipment, including respiratory protection.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

General measures:

Isolate from fire, if possible, without unnecessary risk.

For non-emergency personnel:

Protective equipment:

Protective goggles. Gloves. Protective clothing.

Emergency procedures:

Evacuate unnecessary personnel. Avoid contact with skin, eyes and clothing. Ventilate spillage area.

For emergency responders:

Protective equipment:

Equip cleanup crew with proper protection.

Emergency procedures:

Stop leak if safe to do so. Stop release. Ventilate area.

Environmental precautions:

Avoid release to the environment. Prevent soil and water pollution.

Methods and material for containment and clean up:

For containment:

Contain released substance, pump into suitable containers.

Methods for cleaning up:

This material and its container must be disposed of in a safe way, and as per local legislation.

Reference to other sections:

No additional information available.

7. HANDLING AND STORAGE

Precautions for safe handling:

Precautions for safe handling:

Comply with the legal requirements. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Do not get in eyes, on skin, or on clothing.

Hygiene measures:

Wash thoroughly after handling. Wash contaminated clothing before reuse.

Conditions for safe storage, including any incompatibilities:

Technical measures:

Comply with applicable regulations.

Storage conditions:

Keep container closed when not in use.

Incompatible products:

Oxidizing agents.

Storage area:

Meet the legal requirements. Store in a cool area. Store in a well-ventilated place.

Special rules on packaging:

Meet the legal requirements.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters:

Ethanediol, ethylene glycol (107-21-1)		
ACGIH	ACGIH TWA (mg/m3)	10 mg/m3
ACGIH	Remark (ACGIH)	URT & eye irr

Exposure controls:

Personal protective equipment:

Use appropriate personal protective equipment when risk assessment indicates this is necessary. Gloves. Protective clothing. Safety glasses.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Physical state	Liquid
Appearance	Clear, colorless liquid
Odor	glycol
Odor threshold	No data available
pH	No data available
Melting point	No data available
Freezing point	No data available
Boiling point	No data available
Flash point	> 200 F Closed Cup
Relative evaporation rate (butyl acetate=1)	No data available
Flammability (solid, gas)	No data available
Explosion limits	No data available
Explosive properties	No data available
Oxidizing properties	No data available
Vapor pressure	No data available
Relative density	No data available
Relative vapor density at 20 C	No data available
Specific gravity/density	1.06 g/ml
Solubility	Soluble in water.
Log Pow	No data available
Log Kow	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	No data available
VOC content	0%

10. STABILITY AND REACTIVITY

Reactivity:

Upon combustion: CO and CO₂ are formed.

Chemical stability:

No additional information available.

Possibility of hazardous reactions:

Refer to Reactivity.

Conditions to avoid:

No additional information available.

Incompatible materials:

No additional information available.

Hazardous decomposition products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION**Information on toxicological effects:****Acute toxicity:** Oral: Harmful if swallowed.

2,2'-oxybisethanol, diethylene glycol (11-46-6)	
LD50 oral rat	12565 mg/kg
LD50 dermal rabbit	11890 mg/kg
ATE CLP (oral)	500.000 mg/kg body weight
ATE CLP (dermal)	11890.000 mg/ kg body weight
Ethanediol, ethylene glycol (107-21-1)	
LD50 oral rat	4700 mg/kg
LD50 dermal rabbit	10626 mg/kg
ATE CLP (oral)	500.000 mg/kg body weight
ATE CLP (dermal)	10626.000 mg/kg body weight

Skin corrosion/irritation: Not classified.**Serious eye damage/irritation:** Not classified.**Respiratory or skin sensitization:** Not classified.**Germ cell mutagenicity:** Not classified.**Carcinogenicity:** Not classified.**Reproductive toxicity:** Not classified**Specific target organ toxicity (single exposure):** Not classified.**Specific target organ toxicity (repeated exposure):** May cause damage to organs through prolonged or repeated exposure.**Aspiration hazard:** Not classified.**Symptoms/injuries after inhalation:** No effects known.**Symptoms/injuries after skin contact:** Contact during a long period may cause light irritation.**Symptoms/injuries after eye contact:** Direct contact with eyes is likely irritating.**Symptoms/injuries after ingestion:** Harmful if swallowed.**12. ECOLOGICAL INFORMATION****Toxicity:**

No additional information available.

Persistence and degradability:

No additional information available.

Bioaccumulative potential:

No additional information available.

13. DISPOSAL CONSIDERATIONS**Waste treatment methods:****Waste disposal recommendations:** Dispose in a safe manner in accordance with local/national regulations.**14. TRANSPORT INFORMATION****Department of Transportation (DOT)****In accordance with DOT:** Not regulated for transport.

Additional information:**Other information:**

No supplementary information available.

ADR:

No additional information available.

Transport by sea:

No additional information available.

Air Transport:

No additional information available.

15. REGULATORY INFORMATION

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) or 1986 and 40 CFR Part 372.

Ethanediol, ethylene glycol	CAS No 107-21-1	40-70
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Ethanediol, ethylene glycol (107-21-1)	
Listed on SARA Section 313 (Specific toxic chemical listings)	
RQ (Reportable quantity, section 304 of EPA's List of Lists)	5000 lb

California Proposition 65 - This product does not contain trace quantities of a substance(s) known to the State of California to cause cancer and /or reproductive toxicity.

16. OTHER INFORMATION

Training advice: Normal use of this product shall imply use in accordance with the instructions on the packaging.

Full text of H-phrases:

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
H302	Harmful if swallowed
H373	May cause damage to organs through prolonged or repeated exposure.

NFPA health hazard: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

NFPA fire hazard: 1 - Must be preheated before ignition can occur.

NFPA reactivity: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water

Disclaimer

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. No warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Our company assumes no responsibility for personal injury or property damage to the vendee, users or third parties caused by the material. Such vendee or users assume all risks associated with the use of this material.