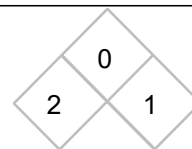


Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Warrior
Product Number: 550
Product Use: Disinfectant Cleaner
Manufacturer/Supplier: Leysons Products
a div. of 1787528 Ontario Inc.
1366 Sandhill Dr., Ancaster, ON L9G 4V5
Phone Number: (905) 648-7432
Emergency Phone: (905) 648-7832
Date of Preparation: 17 November 2017

HMIS Hazard Rating:

0 = minimal, 1 = slight
2 = moderate, 3 = severe
4 = extreme



Health / Flammability / Physical Hazard

Section 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

CAUTION

IRRITANT – EYE/SKIN IRRITANT

Potential Health Effects: See Section 11 for more information.

Likely Routes of Exposure: Skin contact, eye contact, inhalation, and ingestion.

- Eye:** May cause severe eye irritation or burns.
- Skin:** May cause irritation or defatting.
- Ingestion:** May cause burns. May be harmful if swallowed. May cause stomach distress, nausea or vomiting.
- Inhalation:** May cause respiratory tract irritation.

Chronic Effects: Prolonged or repeated contact may dry skin and cause irritation.

Signs and Symptoms: Severe deep burns to eyes. Redness. Pain. Blisters. Skin burns.

Medical Conditions Aggravated By Exposure: Asthma. Allergies.

Target Organs: Skin, eyes, gastrointestinal tract, respiratory system.

Potential Environmental Effects: May cause long-term adverse effects in the aquatic environment See Section 12 for more information.

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS #	Wt. %
Quaternary Ammonium Chloride Compounds	68391-01-5	1 - 5
Ethyl alcohol	64-17-5	0.1 – 1.0
Sodium metasilicate	6834-92-0	1 - 5
Tetrapotassium pyrophosphate	7320-34-5	1 - 5
Nonylphenol ethoxylate	9016-45-9	1 - 5

Section 4: FIRST AID MEASURES

- Eye Contact:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. Get medical attention immediately.
- Skin Contact:** In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.
- Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
- Ingestion:** If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.
- General Advice:** In case of accident or if you feel unwell, seek medical advice immediately (show the label or MSDS where possible).
- Note to Physicians:** Symptoms may not appear immediately.

Section 5: FIRE FIGHTING MEASURES

- Flammability:** Not flammable by WHMIS criteria.
- Means of Extinction:**
- Suitable Extinguishing Media:** Powder, water spray, foam, carbon dioxide.
 - Unsuitable Extinguishing Media:** Not available.
- Products of Combustion:** May include, and are not limited to: oxides of carbon, oxides of nitrogen, ammonia.
- Explosion Data:**
- Sensitivity to Mechanical Impact:** Not available.
 - Sensitivity to Static Discharge:** Not available.
- Protection of Firefighters:** Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

Section 6: ACCIDENTAL RELEASE MEASURES

- Personal Precautions:** Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.
- Environmental Precautions:** This material is a water pollutant. Keep out of drains, sewers, ditches, and waterways. Minimize use of water to prevent environmental contamination.
- Methods for Containment:** Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).
- Methods for Clean-Up:** Vacuum or sweep material and place in a disposal container. Allow gas to dissipate harmlessly into the atmosphere.
- Other Information:** Not available.

Section 7: HANDLING AND STORAGE

Handling:

Avoid contact with sensitive skin and eyes. Do not swallow. Can be used in food processing facilities. Wash hands before eating, drinking, or smoking.

Storage:

Keep out of the reach of children. Keep container tightly closed.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Ingredient

Quaternary Ammonium Chloride Compounds
Ethyl alcohol
Sodium metasilicate
Tetrapotassium pyrophosphate
Nonylphenol ethoxylate

**Exposure Limits
ACGIH-TLV**

Not available.
1000 ppm
Not available.
Not available.
Not available.

Engineering Controls: Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

Personal Protective Equipment:

Eye/Face Protection: Wear eye/face protection.

Hand Protection: Wear suitable gloves.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment.

General Hygiene Considerations: Handle according to established industrial hygiene and safety practices.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear. Color:
	Yellow
Odour:	Lemon
Odour Threshold:	Not Available
Physical State:	Liquid.
pH:	13.1
Viscosity:	Not available.
Freezing Point:	~ 0 °C (~ 32 °F)
Boiling Point:	~ 100 °C (~ 212 °F)
Flash Point:	Not available.
Evaporation Rate:	Not available.

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Warrior

Lower Flammability Limit:	Not available.
Upper Flammability Limit:	Not available.
Vapor Pressure:	H ₂ O
Vapor Density:	H ₂ O
Specific Gravity:	1.080
Solubility in Water:	Complete.
Coefficient of Water/Oil Distribution:	Not available.
Auto-ignition Temperature:	Not available.
Percent Volatile, wt. %:	83
VOC content, wt. %:	Not available.

Section 10: STABILITY AND REACTIVITY

Stability: Stable under normal storage conditions.

Conditions of Reactivity: Heat. Incompatible materials.

Incompatible Materials: Oxidizers. Acids.

Hazardous Decomposition Products: May include, and are not limited to: oxides of carbon, oxides of nitrogen, ammonia.

Possibility of Hazardous Reactions: No dangerous reaction known under conditions of normal use.

Section 11: TOXICOLOGY INFORMATION

EFFECTS OF ACUTE EXPOSURE

Component Analysis

Ingredient	LD₅₀ (oral)	LC₅₀
Quaternary Ammonium Chloride Compounds	Not Available	Not Available
Ethyl alcohol	7060 mg/kg, rat	20000 ppm 10 hrs,rat
Sodium metasilicate	847 mg/kg,rat	Not Available
Tetrapotassium pyrophosphate	4640 mg/kg, rat	Not Available
Nonylphenol ethoxylate	1310 mg/kg, rat	Not Available

Eye: May cause severe irritation or burns. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

Skin: May cause irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin.

Ingestion: May cause burns. May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

Inhalation: May cause respiratory tract irritation.

EFFECTS OF CHRONIC EXPOSURE

Target Organs: Not available.

Chronic Effects: Not hazardous by WHMIS criteria.

Carcinogenicity: Contains an ingredient reasonably anticipated to be a carcinogen

Ingredient	Chemical Listed as Carcinogen or Potential Carcinogen *
Quaternary Ammonium Chloride Compounds	Not Listed
Ethyl alcohol	G-A4
Sodium metasilicate	Not Listed
Tetrapotassium pyrophosphate	Not Listed
Nonylphenol ethoxylate	Not Listed

* See Section 15 for more information.

Mutagenicity: MAK-5 not considered hazardous in workplace application

Reproductive Effects: Not hazardous by WHMIS criteria.

Developmental Effects:

Teratogenicity: MAK-5 not considered hazardous in workplace application

Embryotoxicity: Not hazardous by WHMIS criteria.

Respiratory Sensitization: Not hazardous by WHMIS criteria.

Skin Sensitization: Not hazardous by WHMIS criteria.

Toxicologically Synergistic Materials: Not available.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: May cause long-term adverse effects in the aquatic environment

Persistence / Degradability: Not available.

Bioaccumulation / Accumulation: Not available.

Mobility in Environment: Not available.

Section 13: DISPOSAL CONSIDERATIONS

Disposal Instructions:

This material and its container must be disposed of in a safe way.

Section 14: TRANSPORTATION INFORMATION

TDG Classification

Not regulated

Section 15: REGULATORY INFORMATION

Federal Regulations

Canadian: 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.

Global Inventories

Ingredient

Quaternary Ammonium Chloride Compounds
Ethyl alcohol
Sodium metasilicate
Tetrapotassium pyrophosphate
Nonylphenol ethoxylate

Canada DSL/NDSL

DSL
DSL
DSL
DSL
DSL

WHMIS Classification(s):

Class D2A - MAK-5, minimal risk at usual workplace concentrations
Class D2B – Skin & eye irritant

WHMIS Hazard Symbols:



SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

OSHA (O) Occupational Safety and Health Administration.

ACGIH (G) American Conference of Governmental Industrial Hygienists.

- A1 - Confirmed human carcinogen.
- A2 - Suspected human carcinogen.
- A3 - Animal carcinogen.
- A4 - Not classifiable as a human carcinogen.
- A5 - Not suspected as a human carcinogen.

IARC (I) International Agency for Research on Cancer.

- 1 - The agent (mixture) is carcinogenic to humans.
- 2A - The agent (mixture) is probably carcinogenic to humans; there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals.
- 2B - The agent (mixture) is possibly carcinogenic to humans; there is limited evidence of carcinogenicity in humans in the absence of sufficient evidence of carcinogenicity in experimental animals.
- 3 - The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans.
- 4 - The agent (mixture, exposure circumstance) is probably not carcinogenic to humans.

NTP (N) National Toxicology Program.

- 1 - Known to be carcinogens.
- 2 - Reasonably anticipated to be carcinogens.

Section 16: OTHER INFORMATION

Disclaimer:

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.

Expiry Date: 17 November 2017

Version #: 1.0

Prepared by: H & S Department
Phone: (905) 648-7432