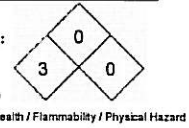


MATERIAL SAFETY DATA SHEET
Touchless Vehicle Wash

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Touchless Vehicle Wash
Product Number: P116
Product Use: Detergent.
Manufacturer/Supplier: Leysons Chemical Products
 1366 Sandhill Drive
 Ancaster Ontario L9G 4V5
Phone Number: (905) 648-7432
Emergency Phone: (905) 648-7832
Date of Preparation: 15 April 2009

HMS Hazard Rating:
 0 = minimal, 1 = slight
 2 = moderate, 3 = severe
 4 = extreme



Section 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER

CORROSIVE MATERIAL – MAY CAUSE BURNS.

Potential Health Effects: See Section 11 for more information.

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

- Eye:** Causes burns.
- Skin:** Causes burns.
- Ingestion:** Causes 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. Serious 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. %
Trisodium nitrilotriacetate	5064-31-3	1 - 5
Tetrasodium ethylenediaminetetraacetate	64-02-8	1 - 5
Ethylene glycol monobutyl ether	111-76-2	1 - 5
Lauryldimethylamine oxide	1643-20-5	1 - 5
Alcohols, C7-21, ethoxylated	68991-48-0	1 - 5
Ethanol	64-17-5	0.1 - 1.0

Section 4: FIRST AID MEASURES

MATERIAL SAFETY DATA SHEET
Touchless Vehicle Wash

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.

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

MATERIAL SAFETY DATA SHEET

Touchless Vehicle Wash

Handling:

Avoid contact with skin and eyes. Do not swallow. Do not breathe gas/fumes/vapor/spray. Handle and open container with care. When using do not eat or drink. Wash hands before eating, drinking, or smoking.

Storage:

Keep out of the reach of children. Keep container tightly closed. Keep away from food, drink and animal foodstuffs.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Ingredient	Exposure Limits ACGIH-TLV
Trisodium nitrilotriacetate	Not available.
Tetrasodium ethylenediaminetetraacetate	Not available.
Ethylene glycol monobutyl ether	20 ppm
Lauryldimethylamine oxide	Not available.
Alcohols, C7-21, ethoxylated	Not available.
Ethanol	1000 ppm

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:	Red
Odour:	Lemon
Odour Threshold:	Not available.
Physical State:	Liquid.
pH:	12.7
Viscosity:	Not available.
Freezing Point:	~ 0 °C (~ 32 °F)
Boiling Point:	~ 100 °C (~ 212 °F)
Flash Point:	Not available.
Evaporation Rate:	Not available.
Lower Flammability Limit:	Not available.

MATERIAL SAFETY DATA SHEET

Touchless Vehicle Wash

Upper Flammability Limit:	Not available.
Vapor Pressure:	Not available.
Vapor Density:	Not available.
Specific Gravity:	1.050
Solubility in Water:	Complete.
Coefficient of Water/Oil Distribution:	Not available.
Auto-ignition Temperature:	Not available.
Percent Volatile, wt. %:	86
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.

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

Section 11: TOXICOLOGY INFORMATION

EFFECTS OF ACUTE EXPOSURE

Component Analysis

Ingredient	LD ₅₀ (oral)	LC ₅₀
Trisodium nitrilotriacetate	1100 mg/kg, rat	Not available.
Tetrasodium ethylenediaminetetraacetate	> 4100 mg/kg, rat	Not available.
Ethylene glycol monobutyl ether	470 mg/kg, rat	450 ppm 4 hrs, rat
Lauryldimethylamine oxide	2700 mg/kg, mouse	Not available.
Alcohols, C7-21, ethoxylated	> 2000 mg/kg, rat	Not available.
Ethanol	7060 mg/kg, rat	20000 ppm 10hrs, rat

Eye: Severe deep burns to eyes.

Skin: Redness. Pain. Blisters. Serious skin burns.

Ingestion: Causes 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: Hazardous by WHMIS criteria.

Ingredient	Chemical Listed as Carcinogen or Potential Carcinogen *
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MATERIAL SAFETY DATA SHEET
Touchless Vehicle Wash

Trisodium nitrilotriacetate	I-2B, N-2, CP65
Tetrasodium ethylenediaminetetraacetate	Not listed.
Ethylene glycol monobutyl ether	Not listed.
Lauryldimethylamine oxide	Not listed.
Alcohols, C7-21, ethoxylated	Not listed.
Ethanol	Not listed.

* See Section 15 for more information.

Mutagenicity: MAK-5, minimal risk at usual workplace concentrations

Reproductive Effects: Not hazardous by WHMIS criteria.

Developmental Effects:

Teratogenicity: Not hazardous by WHMIS criteria.

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

MATERIAL SAFETY DATA SHEET
Touchless Vehicle Wash

Ingredient	Canada DSL/NDSL
Trisodium nitrilotriacetate	DSL
Tetrasodium ethylenediaminetetraacetate	DSL
Ethylene glycol monobutyl ether	DSL
Lauryldimethylamine oxide	DSL
Alcohols, C7-21, ethoxylated	DSL
Ethanol	DSL

WHMIS Classification(s):
Class D2A - Carcinogenicity
Class E - Corrosive Material

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.

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Version #: 1.0

Prepared by: H & S Department
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