

MATERIAL SAFETY DATA SHEET

Lloyds Laboratories Inc.

NANO CLEAN TRUCK WASH – PART # 77220, 77245

SECTION I: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Nano Clean Truck Wash **PRODUCT USE:** Cleaner
MANUFACTURER: Lloyds Laboratories Inc. **SUPPLIER:** Lloyds Laboratories Inc.

ADDRESS: 613, Neal Drive, Peterborough, Ontario, K9J 6X7 **ADDRESS:** 613, Neal Drive, Peterborough, Ontario, K9J 6X7

EMERGENCY #: 1 800 361-6766 **EMERGENCY #:** 1 800 361-6766

SECTION II: INFORMATION ON INGREDIENTS

Ingredients	CAS#	Wt%	OSHA-PEL	ACGIH-TLV	LD ₅₀
Alcohol Ethoxylates	61702-78-1	1-5 %	Not applicable	Not applicable	> 2,000 mg/Kg (Oral/Rat)
Trisodium NTA	5064-31-3	5-10 %	Not applicable	Not applicable	3715 (oral rat)
Sodium Meta Silicate	6834-92-9	0-4 %	Not applicable		1500 to 2500 mg/Kg (Oral Rat)
Potassium Hydroxide	1310-58-3	0-8 %	Not applicable	2 mg/m ³	273 mg/Kg (Oral Rat)

SECTION III: HAZARDOUS IDENTIFICATION

Health hazards given on this data sheet apply to concentrated solution of products. Hazards of diluted product may be reduced, depending on the concentration. Degree of hazard for these reduced concentrations is not currently addressed in the available literature.

Route of Entry: Eye, skin contact, ingestion.

Potential Health Effects:

Eye Contact: Corrosive! Dust or mist from solution are irritating and may cause damage to eyes. Contact may cause severe burns and permanent eye damage.

Skin Contact: Corrosive! Can cause redness, pain and severe burns. Prolonged exposure may cause permanent damage.

Inhalation: Corrosive! Inhalation of vapours can cause coughing, choking, inflammation of the nose, throat, and upper respiratory tract: in very severe cases, pulmonary edema.

Ingestion: Corrosive! Swallowing of sodium hydroxide can cause immediate pain and burns to the mouth, throat, esophagus and gastrointestinal tract. May be fatal.

Chronic Effects: Skin chronic exposure similar to single exposure except for effects secondary skin exposure.

Carcinogenicity: No ingredients listed IARC or NTP or ACGIC.

Teratogenicity, Mutagenicity, Reproductive Effects: The ingredients in this product were found not to be mutagenic when tested by the Ames Assay, (OECD Guidelines for chemical testing, sec.471).

Skin: Corrosive! Can cause redness, pain and severe burns and or ulcers.

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SECTION IV: FIRST AID MEASURES

Eye Contact: Immediately flush with water for 15 minutes. Holding eyelids open during flushing. If irritation persists, repeat flushing and obtain medical attention immediately.

Skin Contact: Immediately flush with water for 15 minutes. Seek medical attention if irritation persists. Remove contaminated clothing and launder before reuse.

Inhalation: Move victim to fresh air. If conscious, have victim take deep, slow breaths. Seek medical attention if symptoms persist.

Ingestion: DO NOT INDUCE VOMITING. Rinse mouth with water, and then drink one glass of water. Seek medical attention. Do not give anything to victim if unconscious or convulsing.

SECTION V: FIRE FIGHTING MEASURES

Flammability: Non flammable.

Flash Point Deg (C,TCC): Not applicable.

Means of Extinction: As appropriate for surrounding fire. Use water, dry chemical, carbon dioxide or foam.

Special Fire Hazards: Fire fighters should wear self contained breathing apparatus.

Autoignition Temperature: Not applicable.

Flame Propagation or Burning Rate of Solid: Not applicable.

Sensitivity to Static Discharge: Not applicable.

Unusual Fire and Explosion Hazards: None expected. As per surrounding fire.

Hazardous Decomposition Products: Oxides of carbon, oxides of nitrogen.

SECTION VI: ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedures: Before attempting clean up, refer to the hazard data provided above. Small spills may be absorbed with non reactive absorbent and placed in suitable, covered, labeled container. For large quantities, dispose of in accordance with local, provincial/ state or federal regulations. For large spills prevent from entering sewers and waterways. For large spills provide diking to prevent spreading.

SECTION VII: HANDLING AND STORAGE

Storage Requirements: KEEP OUT OF REACH OF CHILDREN. Store in a closed container away from incompatible materials which include acids, oxidizing materials, reducing sugars and Ammonia Salts. Storage temperature 4°C Ambient to 35°C (must be stored above 4°C at all times). Transport temperature 4°C Ambient to 35°C (must be stored above 4°C at all times). Keep container closed. Handle and open container with care. Store in a well ventilated place away from incompatible materials. Do not store near open flame. Do not reuse empty containers.

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SECTION VIII: EXPOSURE CONTROL/PERSONAL PROTECTION

Gloves: Impervious protective gloves.
Eye Protection: Chemical splash goggles.
Respiratory Protection: Not normally required if good ventilation is maintained. If mist is generated during application process, use disposable mist applicator.
Other Protective Equipment: As required by employer code. Eye bath, safety shower, protective clothing.
Engineering Controls: General ventilation normally required. If ventilation practices are not adequate for minimizing exposure, additional ventilation or exhaust systems may be required.

SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid	Odour and Appearance: Amber clear liquid with mild typical odour	Odour Threshold:	Not applicable
Vapour Pressure (mm Hg):	Not applicable	Vapour Density (Air=1):	Not applicable	Boiling Point (°C): 100° C
% Volatile (Wt %):	> 85 %	Solubility in water(20°C):	Complete	Viscosity: As water
pH:	12.5-13.5	Specific Gravity:	1.02-1.05	Evaporation Rate (nBuAc=1): similar

SECTION X: STABILITY AND REACTIVITY

Conditions for Chemical Instability: Stable.
Incompatible Materials: Strong oxidizing agents, strong acids.
Hazardous Decomposition Products: Oxides of Carbon, Oxides of Nitrogen when heated.

SECTION XI: TOXICOLOGICAL INFORMATION

See section II.

SECTION XII: ECOLOGICAL INFORMATION

Biodegradability: Surfactants are biodegradable as per Ready Biodegradability Closed bottle test (OECD 301 D, also known as the US EPA as OPPTS 835.3100 (Fate, Transport and Transformation Test Guidelines.)

Full formulation is predicted to be readily biodegradable.

SECTION XIII: DISPOSAL CONSIDERATIONS

Dispose of through a licensed waste management company. Dispose of in accordance to all local, provincial/state and federal regulations.

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SECTION XIV: TRANSPORTATION

T.D.G. Classification: Not regulated.
D.O.T. Classification: Not regulated.

SECTION XV: REGULATORY INFORMATION

Occupational Health and Safety

Regulations:

WHMIS Class:

Class D Division 2B, E Corrosive.

OSHA & WHMIS:

MSDS prepared pursuant to the Hazard Communication Standard (CFR29.1920.1200) and Canadian WHMIS regulations.

Environmental Regulatory Lists:

SARA – Section 313 (Toxic Chemical Release Reporting) 40 CFR 372:

None of these ingredients are listed.

CERCLA – Section 102 (Reportable Quantity) 40 CFR 302:

None of the ingredients are listed.

RCRA 40 CFR 261 (Subpart D):

None of the ingredients are listed.

CLEAN WATER ACT – Section 311 (Reportable Qty) 40 CFR 116:

None of these ingredients are listed.

CLEAN AIR ACT – Section 312 (List of Hazardous Pollutants) 40 CFR 63 (Subpart C):

None of these ingredients are listed.

National Pollutant Release Inventory:

None of these ingredients are listed.

Toxic Substances Control Act (TSCA):

All ingredients are registered on the Chemical Substances Inventory.

Canadian Domestic Substance List (DSL):

All ingredients are registered on the DSL.

SECTION XVI: OTHER INFORMATION

Date:	June 7, 2016	Prepared By:	Technical Services Group	Telephone:	1 800 361-6766
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Disclaimer:

Information for this material safety data sheet 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 the control of supplier, it is assumed that users of this material have been fully trained according to the mandatory requirements of WHMIS. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries for consequential damages, which may result from the use or reliance on any information contained in this form. If user requires independent information on ingredients in this or other material, we recommend contact with the Canadian Centre for Occupational Health and Safety (CCOHS) in Hamilton, Ontario (905-572-4400) or CSST in Montreal, Quebec (514-873-3990).