


# Safety Data Sheet

Section 1 Identification	
<b>Product Identifier</b>	L.R.T. Cleaner
	<b>Version:</b> 7 <b>Effective Date:</b> 15 January 2021
<b>Other Means Of Identification</b>	None
<b>Initial Supplier Identifier</b>	Chemfax Products Ltd. 11444 – 42 Street SE Calgary, AB T2C 5C4 Tel: 403-287-2055
<b>Recommended Use and Restrictions On Use</b>	Soot and carbon remover. Do not mix with acids
<b>Product Family</b>	Blend
<b>Emergency Phone</b>	1-855-887-2055 Monday - Friday 8:00am - 4:30pm MST

Section 2. Hazard Identification	
<b>Hazard Classification</b>	 <p>Skin Corrosion/ Irritation – Category 1            Eye Damage/Irritation - Category 1</p>
<b>Signal Word</b>	Danger
<b>Hazard Statement</b>	Causes severe skin burns and serious eye damage.
<b>Precautionary Prevention Statement</b>	Do not inhale dust or mist. Wash hands thoroughly after handling. Wear protective gloves, protective clothing, eye and face protection
<b>Precautionary Response Statement</b>	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower if on clothes. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a doctor if you feel unwell. Specific treatment: do not induce vomiting unless directed by medical personnel. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor

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<b>Precautionary Storage Statement</b>	Store locked up.
<b>Precautionary Disposal Statement</b>	Dispose of contents / container in accordance with local regulations.
<b>Other Hazards</b>	None

<b>Section 3. Composition / Information on Ingredients</b>			
<b>Chemical Name</b>	<b>Common Name or Synonyms</b>	<b>CAS NO. and Other Unique Identifiers</b>	<b>% by weight</b>
Sodium metasilicate	Sodium silicate	6834-92-0	1-5
Dipropylene glycol methyl ether	DPGME	34590-94-8	1-5
Balance of ingredients are considered non hazardous and constitute a proprietary blend			

<b>Section 4. First-Aid Measures</b>	
<b>Eye Contact</b>	Flush eyes with water for 15 minutes. Seek medical attention.
<b>Skin Contact</b>	Immediately flush skin with running water. Remove and isolate contaminated clothing and shoes. Get medical attention if irritation develops and persists.
<b>Inhalation</b>	Remove victim to fresh air. If there is difficulty breathing, seek immediate medical attention.
<b>Ingestion</b>	If symptoms develop seek medical attention or call POISON CONTROL CENTER. Do not induce vomiting unless directed to do so by medical personnel. If spontaneous vomiting occurs, keep head below hips to prevent aspiration of vomitus.
<b>Most Important Symptoms and Effects Both Acute and Delayed</b>	Solutions of sodium metasilicate are alkaline. Depending on the concentration, duration, and nature of the exposure, exposure to alkaline solutions may result in irritation to possible burns to any tissue that came into contact with solution. This material is not a crystalline silica, and it does not cause pulmonary silicosis. Repeated and prolonged skin contact may cause dermatitis.
<b>Immediate Medical Attention and Special Treatment</b>	Treat as a corrosive substance. Treat symptoms with supportive care. There is no specific antidote. The absence of visible signs or symptoms of burns does NOT reliably exclude the presence of actual tissue damage. It may take 48-72 hours to assess the extent of an ocular burn. Probable mucosal damage may contraindicate the use of gastric lavage.

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<b>Section 5. Fire-Fighting Measures</b>	
<b>Suitable and Unsuitable Extinguishing Media</b>	Use dry chemical, CO <sub>2</sub> , water spray (fog), or foam.
<b>Hazardous Combustion Products</b>	Carbon monoxide and dioxide.
<b>Specific Hazards Arising From The Product</b>	Corrosive material. Negligible fire hazard.
<b>Special Protective Equipment and Precautions For Fire-Fighters</b>	Fire-fighters should wear self-contained breathing apparatus and full protective clothing. Use water spray to cool containers and structures exposed to fire.

<b>Section 6. Accidental Release Measures</b>	
<b>Personal Precautions, Protective Equipment and Emergency Procedures</b>	Gloves (neoprene), coveralls, footwear suitable for work site. Avoid contact with spilled material.
<b>Environmental Precautions</b>	Do not allow spilled material to enter surface drains and watercourses.
<b>Methods and Materials For Containment and Clean-Up</b>	Soak or pump up spilled material. Place in a container suitable for disposal. Wash area with water to remove residues.

<b>Section 7. Handling and Storage</b>	
<b>Precautions For Safe Handling</b>	Handle with care. Good housekeeping practices should be in place.
<b>Conditions For Safe Storage</b>	Store in a cool dry place. Keep containers closed when not in use.

<b>Section 8. Exposure Controls / Personal Protection</b>				
<b>Control Parameters</b>	<b>TWA: 8 Hr</b>	<b>STEL: 15 min</b>	<b>Ceiling</b>	<b>IDLH *</b>
Sodium metasilicate	-	-	2mg/m <sup>3</sup>	-
Dirpopylene glycol	100ppm	150ppm		600ppm
Methyl ether	NIOSH	NIOSH		NIOSH
*Immediately Dangerous to Life and Health				
<b>Exposure Controls</b>	Local exhaust ventilation			
<b>Appropriate Engineering Controls</b>	Ensure eye wash station and shower are available.			

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<b>Individual Protective Measures</b>	If a risk assessment indicates it is necessary, use:
<b>Eye / Face Protection</b>	Chemical safety goggles.
<b>Skin Protection</b>	Wear long sleeves
<b>Respiratory Protection</b>	Properly fitted supplied air respirator complying with and approved standards.

Section 9. Physical and Chemical Properties	
<b>Appearance</b>	Pink, clear liquid
<b>Odour</b>	Mild ammonia odour
<b>Odour Threshold</b>	Not available.
<b>pH</b>	12
<b>Flash Point</b>	
<b>Boiling Point and Boiling Range</b>	Not determined
<b>Melting Point and Freezing Point</b>	Not determined
<b>Evaporation Rate</b>	Not determined
<b>Flammability (solid, gas)</b>	> 93 °C
<b>Upper and Lower Flammability or Explosive Limits</b>	No data
<b>Vapour Pressure</b>	Not determined
<b>Vapour Density</b>	Not determined
<b>Relative Density</b>	1.062
<b>Solubility</b>	Soluble
<b>Partition co-efficient, n-Octanol/Water</b>	No data
<b>Auto-ignition Temperature</b>	No data
<b>Decomposition Temperature</b>	No data
<b>Viscosity</b>	No data

Section 10. Stability and Reactivity	
<b>Reactivity</b>	Reacts with metals with the liberation of hydrogen gas.
<b>Chemical Stability</b>	The product is stable
<b>Possibility of Hazardous Reactions</b>	It may react with aluminium, producing flammable hydrogen gas. Reacts with acids with the formation of silicate precipitate.
<b>Conditions to Avoid</b>	None known.
<b>Incompatible Materials</b>	Strong acids, strong oxidizing agents. Contact of concentrated material with hot aluminium may leave a white residue.
<b>Hazardous Decomposition</b>	Under normal storage conditions, decomposition will not occur.

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<b>Products</b>
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## Section 11. Toxicological Information

<b>Component Toxicity</b>	<b>LD50 Oral</b>	<b>LD50 Dermal</b>	<b>LC50 Inhalation</b>
Sodium metasilicate	847 mg/kg	No data	No data
Dipropylene Glycol Methyl Ether	5180mg/kg (Rat)	9500mg/kg (Rabbit)	>500 ppm/7h (Rat)
<b>Likely Routes of Exposure</b>			
<b>Skin:</b>	May be corrosive.		
<b>Eyes:</b>	Can cause irritation and damage to eyes.		
<b>Inhalation:</b>	May cause irritation of the upper respiratory tract.		
<b>Ingestion:</b>	May be irritating to mouth and throat. May cause irritation of digestive tract.		
<b>Acute Toxicity Estimates (ATE)</b>	Harmful if swallowed.		
<b>STOT (Specific Target Organ Toxicity) – Single Exposure</b>	Category 3 - Respiratory tract irritation		
<b>Aspiration Toxicity</b>	Corrosive		
<b>STOT (Specific Target Organ Toxicity) – Repeated Exposure</b>	No data		
<b>Skin Corrosion / Irritation</b>	Category 1B - Causes severe skin burns and eye damage		
<b>Serious Eye Damage / Irritation</b>	Category 1 - Causes serious eye damage		
<b>Respiratory or Skin Sensitization</b>	Repeated and prolonged skin contact may cause a dermatitis.		
<b>Carcinogenicity</b>	Not classified as a carcinogen per GHS criteria. This product is not classified as a carcinogen by NTP, IARC or OSHA.		
<b>Reproductive Toxicity</b>			
- <b>Sexual Function and Fertility</b>	No data		
- <b>Development of Offspring</b>	No data		
- <b>Effects on or via Lactation</b>	No data		
<b>Germ Cell Mutagenicity</b>	Not classified as a mutagen per GHS criteria. In assays using Bacillus subtilis strains without metabolic activation, sodium metasilicate (0.005-0.5 M) was not genotoxic.		

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<b>Interactive Effects</b>	No data
<b>Other Information</b>	Not applicable

<b>Section 12. Ecological Information</b>	
<b>Ecotoxicity</b>	Sodium Metasilicate: 96 h LC50: 2320ppm (Mosquito fish); 48 h LC50: 113 mg/L (Water flea) Dipropylene glycol methyl ether: LC50>10,000 mg/L (Pimephales promelas) 96h; LC50: 1919 mg/L (Daphnia magna) 48 h.
<b>Persistence and Degradability</b>	No data
<b>Bioaccumulative Potential</b>	Not available
<b>Biodegradability</b>	Not available
<b>Mobility in Soil</b>	Not available
<b>Other Adverse Effects</b>	Not applicable

<b>Section 13. Disposal Considerations</b>	
<b>Disposal Considerations</b>	Dispose of contents / container in accordance with local regulations.

<b>Section 14. Transport Information</b>	
<b>UN Number</b>	1760
<b>UN Proper Shipping Name</b>	Corrosive Liquid, N.O.S.
<b>Transport Hazard Class(es)</b>	8
<b>Packaging Group</b>	III
<b>Environmental Hazards</b>	Not applicable
<b>Bulk Transport</b>	Not applicable
<b>Special Precaution</b>	Not applicable
<b>DOT Erg#</b>	154

<b>Section 15. Regulatory Information</b>	
<b>Canada – DSL Inventory</b>	All components of this product are either on the Domestic Substances List (DSL), Non-Domestic Substances List (NDSL), or exempt
<b>TSCA</b>	All components of this product are either on the Toxic Substances Control Act (TSCA) Inventory List or exempt
<b>Additional Information</b>	None

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<b>Section 16. Other Information</b>	
<b>NFPA Rating</b>	Health-2/ Flammability-0/Reactivity-0/Special Hazard-Not applicable
<b>HMIS Rating</b>	Health-2/Flammability-0/Reactivity-0/Personal Protection-See Section 8.
<b>Prepared by:</b>	Chemfax Products Ltd., Technical Department
<b>Date Prepared:</b>	5 July, 2012
<b>Date of Latest Revision:</b>	15 January 2021
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