


# Safety Data Sheet

Section 1. Identification		
<b>Product Identifier</b>	<b>Blue Lightning</b>	<b>Version: 3</b> <b>Effective Date: 4 December 2020</b>
<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>	Car and truck wash. No Restrictions	
<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            Acute Toxicity, Oral – Category 4            Acute Toxicity, Inhalation – Category 4</p>
<b>Signal Word</b>	Danger
<b>Hazard Statement</b>	Causes sever skin burns and serious eye damage. May be armful if swallowed. May be harmful if inhaled.
<b>Precautionary Prevention Statement</b>	Do not breathe dusts or mists. Wash hands thoroughly after handling. Wear protective gloves, clothing, eye and face protection. Do not handle until all safety precaution have been read and understood.
<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 clothing. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. 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. Specific Treatment: do not induce vomiting unless directed by medical personnel. Treat symptomstically.



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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

## Section 3. Composition / Information on Ingredients

Chemical Name	Common Name or Synonyms	CAS NO. and Other Unique Identifiers	% by weight
Sodium Hydroxide	Caustic soda	1310-73-2	4 - 7
Tetrasodium ethylenediamine tetraacetate Tetrahydrate	EDTA Na <sub>4</sub>	13235-36-4	1 - 4

Balance of ingredients are considered non hazardous and constitute a proprietary blend

## Section 4. First-Aid Measures

<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 obtain 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>	Causes skin and eye irritation.
<b>Immediate Medical Attention and Special Treatment</b>	Wash affected area with plenty of water.

## Section 5. Fire-Fighting Measures

<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, Oxides of Nitrogen, Oxides of sulfur.
<b>Specific Hazards Arising From the Product</b>	Thermal decomposition may evolve toxic and corrosive gases and fumes.



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<b>Immediate Medical Attention and Special Treatment</b>	Fire fighters should wear self contained breathing apparatus and full protective clothing. Use water spray to cool containers and structures exposed to fire.
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## Section 6. Accidental Release Measures

<b>Personal Precautions. Protective Equipment and Emergency Procedures</b>	Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. Provide adequate ventilation. Put on appropriate personal protective equipment.
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<b>Environmental Precautions</b>	Avoid dispersal of spilled material, runoff and contact with soil, waterways, and sewers.
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<b>Methods and Materials for Containment and Clean-Up</b>	Stop leak if without risk. Move containers from spill area. Absorb with an inert material. Dispose of via licensed waste disposal contractor. Dike spill area and do not allow product to reach sewer system or ground water. Notify any reportable spill to authorities. Contain and collect spill with non-combustible material i.e. sand, earth, diatomaceous earth and place the container for disposal according to local regulations.
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## Section 7. Handling and Storage

<b>Precautions For Safe Handling</b>	Put on appropriate personal protective equipment, i.e., chemical resistant gloves, safety goggles, and protective clothing to cover skin. Eating, drinking and smoking is prohibited in areas where this material is handled and stored. Use only with adequate ventilation. Do not reuse empty container.
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<b>Conditions For Safe Storage</b>	Store in accordance with local regulations. Store in segregated and approved area. Store in dry, cool and well-ventilated area, away from oxidizing and reducing material and acids.
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## Section 8. Exposure Controls /Personal Protection

Control Parameters	TWA: 8 Hr	STEL: 15 min	Ceiling	IDLH *
Sodium hydroxide	2 mg/m <sup>3</sup>			
	OSHA/ACGIH			

<b>Exposure Controls</b>	Local exhaust ventilation
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<b>Appropriate Engineering Controls</b>	Ensure eye wash station and safety shower are available.
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<b>Individual Protective Measures</b>	
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<b>Eye / Face Protection</b>	Wear chemical safety goggles. When transferring material wear face-shield in addition to chemical safety goggles.
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<b>Skin Protection</b>	Wear long sleeves and other protective clothing to prevent repeated or prolonged skin contact.
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<b>Respiratory Protection</b>	Not required under normal conditions of use.
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<b>Section 9. Physical and Chemical Properties</b>	
<b>Appearance</b>	Blue liquid
<b>Odour</b>	Cherry
<b>Odour Threshold</b>	Not available.
<b>pH</b>	13.4
<b>Flashpoint</b>	> 100 °C
<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>	Not applicable
<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>	1.052
<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

<b>Section 10. Stability and Reactivity</b>	
<b>Reactivity</b>	Reacts with strong acids and oxidizing agents
<b>Chemical Stability</b>	The product is stable
<b>Possibility of Hazardous Reactions</b>	None known
<b>Conditions to Avoid</b>	Do not allow vapour to accumulate in low or confined area.
<b>Incompatible Materials</b>	Acids and oxidizing agents.
<b>Hazardous Decomposition Products</b>	Under normal storage condition decomposition will not occur.

<b>Section 11. Toxicological Information</b>			
<b>Component Toxicity</b>	<b>LD50 Oral</b>	<b>LD50 Dermal</b>	<b>LC50 Inhalation</b>
<b>Tetrasodium EDTA</b>	1780 - 2000 mg/kg (Rat)	>5,000 mg/kg (Rabbit)	4.14 mg/L, 4h (Rat)
<b>Sodium Hydroxide</b>	500mg/kg (Rabbit)		



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<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, throat and stomach.
<b>Acute Toxicity Estimates</b>	Not classified
<b>STOT (Specific Target Organ Toxicity) – Single Exposure</b>	Not classified
<b>Aspiration Toxicity</b>	Not classified
<b>STOT (Specific Target Organ Toxicity) – Repeated Exposure</b>	Not classified
<b>Skin Corrosion / Irritation</b>	Corrosive
<b>Serious Eye Damage / Irritation</b>	Irritating
<b>Respiratory or Skin Sensitization</b>	Not classified
<b>Carcinogenicity</b>	Not classified as carcinogen
<b>Reproductive Toxicity</b>	
- Sexual Function and Fertility	Not classified
- Development of Offspring	Not classified
- Effects on or via Lactation	Not classified
<b>Germ Cell Mutagenicity</b>	Not classified
<b>Interactive Effects</b>	Not classified
<b>Other Information</b>	None known

<b>Section 12. Ecological Information</b>	
<b>Ecotoxicity</b>	<p>Tetrasodium EDTA</p> <p>LC50: Lepomis macrochirus (Bluegill sunfish) - static test, 96h: 1,592 mg/l</p> <p>EC50: Daphnia magna (Water flea) - 24h, immobilization: 610 - 1,033 mg/l</p> <p>EC50: Pseudokirchneriella subcapitata (green algae) - static test, Growth rate inhibition, 72h: &gt;100 mg/l</p> <p>Danio rerio (zebra fish) - flow-through test, 35d, Other, NOEC, NOEC: &gt; 25.7 mg/l</p> <p>Daphnia magna (water flea) - semi-static test, 21d, number of offspring, NOEC: 25 mg/l</p>
<b>Persistence and Degradability</b>	Will not persist
<b>Bioaccumulative Potential</b>	Not available
<b>Biodegradability</b>	Readily degradable.
<b>Mobility in Soil</b>	Not available
<b>Other Adverse Effects</b>	None known



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## Section 13. Disposal Considerations

**Disposal Considerations** Dispose of in accordance with local, provincial and federal regulations

## Section 14. Transport Information

<b>UN Number</b>	3266
<b>UN Proper Shipping</b>	Corrosive Liquid, Basic, Inorganic, N.O.S. (Sodium Hydroxide)
<b>Transport Hazard Class(es)</b>	II
<b>Packaging Group</b>	8
<b>Environmental Hazards</b>	Not applicable
<b>Bulk Transport</b>	Not applicable
<b>Special Precaution</b>	Not applicable
<b>DOT Erg#</b>	154

## Section 15. Regulatory Information

<b>Canada – DSL Inventory</b>	All components of this product are either on the Domestic Substances List (DSL) or 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

## Section 16. Other Information

<b>NFPA Rating</b>	Health-2/ Flammability-0/Reactivity-1/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>	12 September 2018
<b>Date of Latest Revision:</b>	4 December 2020

### Disclaimer

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