

# GEORGIA CORRECTIONAL INDUSTRIES: LIGHTNING BOLT CLEANER

## SAFETY DATA SHEET

### SECTION 1 – PRODUCT NAME AND COMPANY IDENTIFICATION

- 1.1 Product name: Lightning Bolt Cleaner  
General use: Proprietary industrial cleaner  
Product description: Clear amber liquid  
Product number(s): 07910, 07911, 07912, 07914
- 1.2 Manufacturer: Georgia Correctional Industries, 2984 Clifton Springs, Rd., Decatur, GA 30034  
Telephone number: (800) - 252 - 7130, (404) - 244 - 5100  
Emergency number: Chemtrec: (800) - 424 - 9300  
Date prepared: Feb. 27, 2015; supersedes any previous editions

### SECTION 2 – HAZARDS IDENTIFICATION



- 2.1 Classification of the substance: Cat. 1A, Skin      Cat. 1, Eye      GHS05
- 2.2 Signal word: **DANGER**
- 2.3 Hazard statement: H314: Causes severe skin burns and eye damage.
- 2.4 Precautionary prevention statements: P260: Do not breathe dust / fume / gas / mist / vapors / spray.  
P260: Wash exposed skin thoroughly after handling.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.
- 2.5 Precautionary response statements P312: **Immediately** call a POISON CENTER or doctor/physician if you feel unwell.  
P301, P330, P381: **IF SWALLOWED:** Rinse mouth. Do NOT induce vomiting.  
P304, P340: **IF INHALED:** Remove victim to fresh air, rest in a position comfortable for breathing.  
P305, P351, P338: **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing as needed.  
P363: Wash contaminated clothing before reuse.
- 2.6 Precautionary storage statement: P405 Store locked up.
- 2.7 Precautionary disposal statement: P501: Dispose of contents/container in accordance with local/regional/national/international regulations.
- 2.7 NFPA / HMIS rating: 3, 0, 0, COR

### SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Hazardous components:	CAS #	% by wt.	OSHA PEL		ACGIH TLV		SARA TITLE III	RQ (lbs.)
			PPM	mg/M <sup>3</sup>	PPM	mg/M <sup>3</sup>		
2-Butoxyethanol	111-76-2	< 7%	25	25	Not est.	311 / 312 / 313	1000	
Silicic acid disodium salt	6834-92-0	< 30%	2	2	Not est.	311 / 312	ND	
Potassium hydroxide	1310-21-6	< 5%	2		2	311 / 312 / 313	1000	
Linear alcohol ethoxylate	68551-12-2	< 5		Not est.	Not est.	311 / 312 ND		

The remaining components of this product are non-hazardous or are in small enough quantities as to not meet regulatory thresholds for disclosure. These components contain no substances or impurities which would influence the classification of this product. All components and their specific proportions in this product are considered proprietary to Georgia Correctional Industries.

### SECTION 4 – FIRST AID MEASURES

- 4.1 Description of first aid measures
- General information: Immediately remove any clothing soiled by the product. Always seek medical help for any exposure.
- After inhalation: In case of unconsciousness place patient stably in side position for transportation.  
Supply fresh air. If required, provide artificial respiration. Keep patient warm.
- After skin contact: Immediately rinse with water. Seek immediate medical advice.
- After eye contact: Remove contact lenses if worn. Rinse eye for several minutes under running water. Seek medical advice.
- After swallowing: Do not induce vomiting; call for medical help immediately. Rinse out mouth and then drink plenty of water.  
A person vomiting while on their back should be turned onto their side.

### SECTION 5 – FIRE FIGHTING PROCEDURES

- 5.1 Extinguishing media: Carbon dioxide, water fog, chemical foam, dry chemical. Material is non-flammable.
- 5.2 General hazards: Material is irritating, avoid contact and conditions that result in agitating or foaming the material.
- 5.3 Advice for firefighters: Protective equipment: Wear a self-contained respiratory protective device.
- 5.4 Unusual hazards: None.
- 5.5 Firefighting procedures: Keep containers cool with water spray to prevent container rupture due to steam buildup; floor will become slippery if material is released. Material is alkaline and will irritate the eyes if product or fumes contact the eyes.
- 5.6 Decomposition compounds: Oxides of carbon, sodium, silicon, and nitrogen may be released with sufficient thermal energy.

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## SECTION 6 – ACCIDENTAL RELEASE MEASURES

- 6.1 Protective equipment and emergency procedures: Wear protective equipment. Keep unprotected persons away. Particular danger of slipping on leaked/spilled product. ensure adequate ventilation, material is irritating, avoid direct contact.
- 6.2 Environmental precautions: Dilute with plenty of water and do not allow it to enter sewers, surface or ground water.
- 6.3 Methods and materials for containment and clean up: Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust). Use neutralizing agent. Clean the affected area carefully, dispose contaminated material as waste according to Section 13.
- 6.4 Reference to other sections: See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment.

## SECTION 7 – HANDLING AND STORAGE

- 7.1 Precautions for safe handling: Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols and dusts.
- 7.2 Conditions for safe storage: Do not store together with acids or foodstuffs. Store in cool, dry conditions in well sealed receptacles.
- 7.3 Specific end use(s): No further relevant information available.

## SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

- 8.1 Exposure controls:
- General protective and hygienic measures:** Keep away from foodstuffs and beverages. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid direct contact with the eyes and skin.
- Respiratory protection:** None required unless product is aerated, dusted or sprayed.
- Protection of hands:** Protective gloves, the glove material has to be impermeable and resistant to the product, such as neoprene, butyl or nitrile rubber gloves with cuffs.
- Eye protection:** Safety glasses and / or goggles with side shields.
- Body protection:** Protective work clothing.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

- 9.1 Appearance: Clear amber liquid
- Odor: Sweet
- Odor threshold: ND
- pH: 12.0 - 13.0
- Melting point / freezing point: -0°C
- Initial boiling point and boiling range: ND
- Flash point: ND
- Evaporation rate: Similar to water
- Flammability (solid, gas): ND
- Upper / lower flammability or explosive limits: ND
- Vapor pressure: 17 mmHg
- Vapor density: ND
- Relative density: 1.01, 25°C
- Solubility: Soluble in water
- Partition coefficient: n-octanol/water: ND
- Autoignition temperature: ND
- Decomposition temperature: ND
- 9.2 Other information: None

## SECTION 10 –STABILITY AND REACTIVITY

- 10.1 Reactivity: No spontaneous reactivity
- 10.2 Chemical stability: Thermal decomposition possible at temperatures exceeding 600°F, no decomposition if used according to specifications.
- 10.3 Possible hazardous reactions: Corrosive action on metals, reacts with powdered metals, reacts strongly with acids.
- 10.4 Conditions to avoid: No further relevant information available.
- 10.5 Incompatible materials: Strong oxidizers and acids.
- 10.6 Decomposition products: Oxides of carbon, nitrogen, silicon and sodium.

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## SECTION 11 – TOXICOLOGICAL INFORMATION

11.1	Hazardous Ingredients	CAS #	EINECS #	LD 50, species / route
	2-Butoxyethanol	111-76-2	203-95-0	LD50, Rat, oral, > 5000 mg/kg
	Potassium hydroxide	1310-58-3	215-282-3	LD50, Rat, oral, 365 mg/kg
	Silicic acid disodium salt	6834-92-0	229-912-9	LD50, Rat, oral, 800 mg/kg
	Linear alcohol ethoxylate	68551-12-2	203-622-4	LD50, Rat, oral, 2500 mg/kg
11.2	Serious eye damage/irritation:	Causes severe eye damage.		
11.3	Respiratory or skin sensitization:	No data available		
11.4	Repeated dose toxicity:	No data available		
11.5	STOT (single/repeated)	No data available		
11.6	Carcinogenicity:	No data available		
11.7	Mutagenicity:	No data available		
11.8	Reproductive toxicity:	No data available		

## SECTION 12 – ECOLOGICAL INFORMATION

12.1	Toxicity:	2-Butoxyethanol	LC50, Fathead minnow, 2137 mg/liter (96 hours)
		Linear alcohol ethoxylate:	LC50, Fathead minnow, 10 mg/liter (96 hours)
		Silicic acid disodium salt:	LC50, Fathead minnow, 500 mg/liter (96 hours)
		Potassium hydroxide	LC50, Fathead minnow, 80 mg/liter (96 hours)
		Finished product:	No available data.
12.2	Persistence and degradability:	Expected to be easily biodegradable based on composition.	
12.3	Bioaccumulative potential:	Not expected to exhibit this behavior based on composition.	
12.4	Soil mobility:	No specific data available.	
12.5	General information:	No data are available on the adverse effects of this material on the environment. Neither COD nor BOD data are available. Based on the chemical composition of this product it is assumed that the mixture can be treated in an acclimatized biological waste treatment plant system in limited quantities. However, such treatment should be evaluated and approved for each specific biological system. None of the ingredients in this mixture are classified as a Marine Pollutant.	

## SECTION 13 – DISPOSAL CONSIDERATIONS

13.1	Waste treatment methods:	It is recommended that small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements. Refer to 40 CFR 260 - 299 for complete waste disposal regulations for alkaline materials. Consult your local, state, or federal agency before disposing of any chemicals.
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## SECTION 14 – TRANSPORTATION INFORMATION

14.1	UN number:	UN1760
	DOT, ADR, IMDG, IATA	
14.2	Proper shipping name:	Corrosive liquid, n.o.s.
	DOT, ADR, IMDG, IATA	
14.3	Transport hazard class:	8
	DOT, ADR, IMDG, IATA	
14.4	Packing group:	III, corrosive
	DOT, ADR, IMDG, IATA	
14.5	Environmental hazards:	None
	Marine	

Note: Transportation information provided is for reference only. Customer is urged to consult 49 CFR 100 - 177, IMDG, IATA, EC, United Nations TDG, and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

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## SECTION 15 – REGULATORY INFORMATION

- 15.1 TSCA: All components of this product are listed on the U.S. Toxic Substances Control Act Chemical Inventory (TSCA Inventory) or are exempted from listing because a Low Volume Exemption has been granted in accordance with 40 CFR 723.50.
- 15.2 SARA TITLE III: Not regulated under 302, 303. Regulated under 311 / 312. Regulated under 313 for 2-Butoxyethanol, potassium hydroxide
- 15.3 CERCLA: Potassium hydroxide CAS # 1310-58-3 RQ 1000lbs.  
2-Butoxyethanol CAS # 111-76-2 RQ 1000 lbs.  
Ethylene oxide CAS # 75-21-8 RQ 10 lbs.  
1,4-dioxane CAS # 123-91-111 RQ 10 lbs.
- 15.4 Clean Air Act: No ingredients defined as Hazardous Air Pollutants or Stratospheric Ozone Depleting.
- 15.5 California Prop. 65: This product contains a chemical(s) known to the state of California to cause cancer (Ethylene oxide, CAS # 75-21-8 and 1,4-dioxane CAS # 123-91-111)
- 15.6 Right To Know: NJ, MA, PA for 2-Butoxyethanol (CAS # 111-76-2).  
MA listed for ethylene oxide (CAS # 75-21-8) and 1,4-dioxane (CAS # 123-91-111)
- 15.7 CPR classification: WHMIS Classification: E
- 15.8 Canadian IDL: Components of this product identified by CAS number and listed on the Canadian Ingredient Disclosure List are shown in Section 2.
- 15.9 Can. DSL / NDSL: Components of this product identified by CAS number are listed on the DSL or NDSL, or are otherwise in compliance with the New Substances Notification (NSN) regulations. Only ingredients classified as "hazardous" are listed in Section 2 unless otherwise indicated.
- 15.10 EINECS: Components of this product identified by CAS numbers are on the European Inventory of Existing Commercial Chemical Substances.

## SECTION 16 – OTHER INFORMATION

- 16.1 Risk phrases: R35 / 41: Causes serious skin burns / Risk of serious damage to eyes  
Safety phrases: S36 / 37 / 39: Wear protective clothing, gloves, and eye / face protection.



Symbols for label:

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.