






SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION					
PRODUCT NAME: <b>Lightning® Luminol</b>		DATE: <b>August 1, 2011</b>			
PRODUCT NUMBER: <b>4-7820 (1005784)</b>					
TRADE NAME: <b>Lightning® Luminol</b>					
GENERAL USE: <b>Blood Stain Solution Activator</b>					
CHEMICAL FAMILY: <b>Oxygen liberating inorganic salt.</b>					
PRODUCT DESCRIPTION:  Colorless, odorless crystals.					
MANUFACTURER: <b>Safariland LLC</b>		DATE PREPARED: <b>August 1, 2011</b>			
		SUPERSEDES: <b>November 19, 2008</b>			
ADDRESS (NUMBER, STREET, P.O. BOX) <b>13386 International Parkway</b>		TELEPHONE NUMBER FOR INFORMATION / Customer Service <b>800-347-1200</b>			
(CITY, STATE AND ZIP CODE) <b>Jacksonville, FL. 32218</b>		COUNTRY <b>USA</b>		CHEMTEL 24-HOUR EMERGENCY TELEPHONE NUMBER	
				 <b>1-800-255-3924</b> <b>01-813-248-0585</b> North America Toll Free      International	
SECTION 2 - HAZARDS IDENTIFICATION					
EMERGENCY OVERVIEW <b>Danger!</b> Strong oxidizer. Contact with other material may cause a fire. Harmful if swallowed. Causes eye and skin irritation. May cause respiratory tract irritation. <b>Target Organs:</b> Eyes, skin.					
<b>POTENTIAL HEALTH EFFECTS</b>					
INHALATION: May cause respiratory tract irritation. May be harmful if inhaled. Inhalation of high concentrations may cause coughing and shortness of breath.					
SKIN: Causes skin irritation. May be harmful if absorbed through the skin.					
EYES: Causes eye irritation.					
INGESTION: Harmful if swallowed. May cause irritation of the digestive tract. May cause nausea and vomiting.					
CARCINOGENICITY:					
NTP? <b>NO</b>		IARC MONOGRAPHS? <b>NO</b>		OSHA REGULATED? <b>NO</b>	
CALIFORNIA, Prop.65? <b>NO</b>		ESIS? <b>NO</b>			
SECTION 3 - HAZARDOUS INGREDIENTS					
Hazardous Components	% (by Weight)	CAS #	EINECS #	Hazard Symbol	RISK PHRASES (Full Text Section 15)
<b>Sodium Perborate Tetrahydrate</b>	<b>96-98</b>	<b>10486-00-7</b>	<b>Unlisted</b>	<b>XN, O</b>	<b>R8, R22, R36/38</b>
SECTION 4 - FIRST AID MEASURES					
INHALATION: Remove victim to fresh air. Seek immediate medical assistance. Get medical attention for any breathing difficulty.					
EYES: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.					
SKIN: Get medical aid. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.					
INGESTION: Do not induce vomiting. Get medical aid immediately. Call a poison control center.					
SECTION 5 - FIRE FIGHTING MEASURES					
GENERAL HAZARDS: Product is not flammable itself but releases oxygen promoting the combustion of organic materials.					
EXTINGUISHING MEDIA: Use foam, dry chemical, or Carbon Dioxide.					
FIRE FIGHTING PROCEDURES: Avoid contact of this product with organic materials. No special firefighting procedures are applicable.					
UNUSUAL FIRE AND EXPLOSION HAZARDS: None applicable.					
HAZARDOUS COMBUSTION PRODUCTS: Boron oxides, oxygen.					

# MATERIAL SAFETY DATA SHEET

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<b>SECTION 6 - ACCIDENTAL RELEASE MEASURES</b>								
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:								
Use proper personal protective equipment as indicated in Section 8.								
<b>Spills/Leaks:</b> Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions. Do not use combustible materials such as paper towels to clean up spill. Keep combustibles (wood, paper, oil, etc.) away from spilled material. Do not let this chemical enter the environment.								
<b>SECTION 7 - HANDLING AND STORAGE</b>								
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:								
<b>Handling:</b> Minimize dust generation and accumulation. Do not get in eyes, on skin, or on clothing. Avoid contact with clothing and other combustible materials. Do not ingest or inhale. Use with adequate ventilation.								
<b>Storage:</b> Do not store near combustible materials. Store in a cool, dry place. Store in a tightly closed container. Keep away from reducing agents.								
<b>SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION</b>								
HAZARDOUS COMPONENTS	NIOSH				ACGIH		OSHA	
	TWA ppm	TWA mg/m3	STEL ppm	STEL mg/m3	TLV/TWA ppm	TWA mg/m3	PEL ppm	PEL mg/m3
<b>Sodium Perborate Tetrahydrate</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>
<b>PERSONAL PROTECTION</b>								
RESPIRATORY PROTECTION:								
Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.								
PROTECTIVE GLOVES:								
Wear appropriate protective gloves to prevent skin exposure.								
EYE PROTECTION:								
Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.								
OTHER PROTECTIVE CLOTHING OR EQUIPMENT:								
Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.								
WORK / HYGIENIC PRACTICES:								
Employ good, industrial hygiene practices by using adequate ventilation and personal protection, as needed. Do not smoke, eat, or drink while handling product.								
<b>SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES</b>								
APPEARANCE AND ODOR				VAPOR PRESSURE				
Colorless, odorless crystals.				NA				
pH				SPECIFIC GRAVITY (WATER = 1)				
NA				NA				
BOILING POINT				SOLUBILITY IN WATER				
NA				Complete				
MELTING POINT				PERCENT VOLATILE				
NA				0%				
FLASH POINT				VAPOR DENSITY (AIR = 1)				
NA				NA				
AUTO-IGNITION TEMPERATURE				EVAPORATION RATE (WATER = 1)				
NA				NA				
<b>SECTION 10 - STABILITY AND REACTIVITY</b>								
STABILITY				CONDITIONS TO AVOID:				
STABLE X				Excessive heat.				
INCOMPATIBILITY (MATERIALS TO AVOID):								
Reducing agents, combustible organic materials, moisture, heavy metals.								
HAZARDOUS DECOMPOSITION OR BYPRODUCTS:								
Boron oxides, oxygen.								
HAZARDOUS POLYMERIZATION:				CONDITIONS TO AVOID:				
Will not occur.				None related to polymerization.				
<b>SECTION 11 - TOXICOLOGICAL INFORMATION</b>								
Hazardous Components		CAS # EINECS #		LD50 of Ingredient (Specify Species and Route)			LC50 of Ingredient (Specify Species)	
<b>Sodium Perborate Tetrahydrate</b>		10486-00-7		Oral, mouse: LD50 = 1060 mg/kg			NE	
		Unlisted		Oral, rat: LD50 = 1200 mg/kg				
<b>SECTION 12 - ECOLOGICAL INFORMATION</b>								
This product decomposes in the environment to natural borates. Do not allow to enter watercourses.								
<b>SECTION 13 - DISPOSAL CONSIDERATIONS</b>								
WASTE DISPOSAL METHOD:								
Dispose of product waste as well as containers in accordance with all local, state and federal regulations.								

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<b>SECTION 14 - TRANSPORT INFORMATION</b>			
PROPER SHIPPING NAME: Not Regulated			
DOT HAZARD CLASS / Pack Group: Not Regulated		IATA HAZARD CLASS / Pack Group: None	
REFERENCE: 49 CFR		IMDG HAZARD CLASS: None	
UN / NA IDENTIFICATION NUMBER: None		RID/ADR Dangerous Goods Code: None	
LABEL: None		UN TDG Class / Pack Group: None	
HAZARD SYMBOLS:		Hazard Identification Number (HIN): None	
Note: Transportation information provided is for reference only. Client is urged to consult CFR 49 parts 100 - 177, IMDG, IATA, EU, United Nations TDG, and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.			
<b>SECTION 15 - REGULATORY INFORMATION</b>			
TSCA (USA - Toxic Substance Control Act):		<b>Yes</b>	
SARA TITLE III (USA - Superfund Amendments and Reauthorization Act):			
Acute Health: <b>NO</b>		Chronic Health: <b>NO</b>	
Fire: <b>NO</b>		Sudden Release of Pressure: <b>NO</b>	
Reactive: <b>NO</b>			
<b>313 REPORTABLE INGREDIENTS:</b>		<b>None</b>	
CERCLA (USA - Comprehensive Response Compensation and Liability Act):		<b>None</b>	
California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986:		<b>Not listed.</b>	
CPR (Canadian Controlled Products Regulations):		<b>Not listed.</b>	
CIDL (Canadian Ingredient Disclosure List):		<b>Listed.</b>	
WHMIS Classifications (Canada's Workplace Hazardous Materials Identification System):		<b>C, D1B, D2B.</b>	
DSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List):		<b>Components listed on DSL.</b>	
EINECS (European Inventory of Existing Commercial Chemical Substances):		<b>Referenced.</b>	
WGK Water Quality Index:		<b>1</b>	
RISK PHRASES:	SYMBOL(S) REQUIRED FOR EU LABEL	SAFETY PHRASES:	
<b>R8 : Contact with combustible material may cause fire.</b> <b>R22 : Harmful if swallowed.</b> <b>R36/38 : Irritating to eyes and skin.</b>	 <b>Xn - HARMFUL</b>	<b>S17 : Keep away from combustible material.</b> <b>S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.</b> <b>S37/39 : Wear suitable gloves and eye/face protection.</b>	
	 <b>O - OXIDIZER</b>		
<b>SECTION 16 - OTHER INFORMATION</b>			
<b>Legend:</b> NA = Not Applicable, NE = Not Established, ND = Not Determined, NR = Not Reported			
HMIS HAZARD RATINGS		HEALTH:	<b>2</b>
		FLAMMABILITY:	<b>1</b>
		PHYSICAL HAZARD:	<b>3</b>
		PERSONAL PROTECTIVE EQUIPMENT:	<b>B</b>
			0 = INSIGNIFICANT
			1 = SLIGHT
			2 = MODERATE
			3 = HIGH
			4 = EXTREME
REVISION SUMMARY:			
Revised to EU protocols 8/1/2011, supersedes 11/19/2008 issue. ...JTV..			
<b>MSDS Prepared by:</b> ChemTel Inc. 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573 Website: www.chemtelinc.com			
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.			