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CHEMICAL EMERGENCY HOTLINE: 1-800-424-9300 (CHEMTREC)

PRODUCT NAME: **LUMEN**
PRODUCT DESCRIPTION: ORANGE, CRYSTALS, ESSENTIALLY ODORLESS

MATERIAL SAFETY DATA SHEET ESSENTIALLY SIMILAR TO OSHA-20
NE=NOT ESTABLISHED NA=NOT APPLICABLE

SECTION 1 - HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENTS (optional)	CAS #	TLV	OSHA PEL	Section 313?	%
Sulfamic Acid	5 329-14-6	NE	No	---	

SECTION 2 - PHYSICAL DATA

Boiling point	NA	Vapor density (Air = 1)
	NA.	
Specific gravity	NA.	Vapor pressure (mm Hg @ 70°F)
	NA.	
Percent volatile	NA.	Evaporation rate (Ether = 1)
	NA	
Appearance and odor	see document header	Solubility in water Complete
PH	1.5 (5%)	
NFPA Ratings: Health - 2, Flammability - 0, Reactivity - 0, Other - 0		

SECTION 3 - FIRE AND EXPLOSION

FLASH POINT (temp at which it gives off combustible vapors)	NA
Flammable limits-- lower:	Non-combustible
Flammable limits-- upper:	Non-combustible
EXTINGUISHING MEDIA:	As needed for surrounding fire.
SPECIAL FIRE FIGHTING PROCEDURES:	Firefighters should wear self-contained breathing apparatus. Use protective clothing to avoid skin contact with product.
UNUSUAL FIRE & EXPLOSION HAZARDS:	None (non-combustible)

SECTION 4 - REACTIVITY DATA

STABLE:	yes
CONDITIONS TO AVOID:	Contact with incompatible materials (listed below)
INCOMPATIBILITY:	Bases, carbonates, metal oxides, active metals, chlorine, hypochlorous acid, hypochlorites, cyanide or sulfides.
HAZARDOUS DECOMPOSITION PRODUCTS:	SO _x , NO _x , and ammonia
HAZARDOUS POLYMERIZATION:	will not occur.

SECTION 5 - HEALTH HAZARD DATA

Threshold limit value: NE, blended product. We recommend an 8-hour time weighted average of 1 mg/m³ in air.
Health hazards: None known or expected beyond acute effects.
This product or its' ingredients have not been identified as a carcinogen or probable carcinogen by: NTP, IARC Monographs, or OSHA.
Medical conditions generally aggravated by exposure: Dermatitis and similar skin disorders from contact respiratory disorders from breathing dust or mists of solution.
Primary Routes of Entry: Eye contact, skin contact, Inhalation of dust or solution spray.

EFFECTS OF OVEREXPOSURE

EYES: Burns
SKIN: possible irritation or burns upon prolonged contact.
INHALATION: (of dust) irritation of nose and throat. Possible burns, chemical Pneumonia, and lung damage. Note: inhalation of dust is an unlikely route of exposure. The product is dedusted and non-volatile.
INGESTION: Burns of mouth, throat, and stomach; pain, nausea, vomiting, shock symptoms.

EMERGENCY AND FIRST AID PROCEDURES

EYES: Immediately flush eyes with cool running water for at least 15 minutes while holding eyelids apart. Remove contact lenses if applicable. Contact a physician.
SKIN: Rinse thoroughly with cool water for 15 minutes. Remove contaminated clothes and wash before reuse. Contact a physician if irritation persists or a burn develops.
INHALATION: Remove to fresh air. If breathing difficulties occur or irritation is severe, seek medical attention.
INGESTION: Drink large quantities of water or milk to dilute. Do not induce vomiting unless directed by medical personnel. Call for immediate medical advice or assistance.

SECTION 6 - PROTECTIVE EQUIPMENT

RESPIRATOR TYPE: NIOSH/MSHA approved respirator where conditions may cause exposure limits to be exceeded from dust of product or mists of solutions.
VENTILATION: Use with general or local ventilation to avoid exposure to irritating product dust or mists of solution (product is dedusted).
EYE PROTECTION: Safety goggles and/or face shield to prevent eye exposure.
PROTECTIVE CLOTHES: Acid resistant, impermeable gloves. Full body covering with rubber apron and shoes to prevent contact.
OTHER PROTECTIVE EQUIPMENT Eyewash stations. Rubber protective clothing as required to avoid prolonged or repeated skin contact.

SECTION 7 - PRECAUTIONS FOR HANDLING AND USE

HANDLING AND STORING: Incidental contact with this product normally causes no harm. However, as with any industrial cleaner, some basic safety measures should be observed. Guard against ingestion of dusts, etc. and wash thoroughly after handling. Do not get in eyes, on skin, or leave on clothing.
STORAGE PROCEDURES: Store in a cool dry , place away from sources of contamination and/or non compatability. Keep container closed to avoid caking or contamination.
SMALL SPILLS: For spills 5 pounds or less, wear glasses and rubber gloves and recover as practical. Neutralize area with sodium bicarbonate, soda ash, lime, or general alkaline detergent. Flush to drain with excess water flow.
LARGE SPILLS: Only knowledgeable and properly protected people should work with a large spill. Get professional assistance if necessary. Stop source of discharge if safe to do so. Evacuate unprotected personnel from the immediate area. Contain spilled material and keep from discharging to surface waters. Recover to drum for later use, treatment or disposal. Recover using acid resistant pump, scoops, absorbent material, or other process as appropriate. Neutralize contaminated area with Sodium Bicarbonate, soda ash, lime, or general alkaline detergent. Flush to drain. Notify local, state, or national authorities if required.

WASTE DISPOSAL METHODS: Dispose of waste as allowed by local, state, and federal regulations.

TRANSPORTATION INFO:

U. S. DOT INFORMATION

Shipping Name: Sulfamic Acid Mixture

Hazard Class - 8

UN/NA #: UN – 2967

Packing Group - III

DISCLAIMER: The above information is, to the best of our knowledge, current, accurate, and complete based on information reasonably available to us as of the date of preparation of this form. However, it is the user's responsibility to determine the safety, toxicity and suitability for his or her own use of the product described herein. Since the actual use by others is beyond our control, no guarantee, expressed or implied, is made by us as to the effects of such use or on the safety or toxicity of this product. Nor do we assume any liability arising out of use by others of the product. Nor is the information herein to be construed as absolutely complete, since additional information may be necessary or desirable when exceptional conditions or circumstances exist or because of applicable laws or regulations.