

SUPPLIER		ELCO LABORATORIES, INC.		<b>HAZARD RATING</b>  4 = EXTREME 3 = HIGH 2 = MODERATE 1 = SLIGHT 0 = INSIGNIFICANT	
ADDRESS		2545 Palmer Avenue, University Park, Illinois 60466			
TELEPHONE	Medical Emergencies:	Poisindex Information System			
	24 Hour Transportation Emergency Response:	1 (800) 255-3924			
		Transportation Information and Product Information:	1 (708) 534-3000	<b>FIRE</b>	<b>0</b>
				<b>TOXICITY</b>	<b>2</b>
				<b>REACTIVITY</b>	<b>0</b>
				<b>SPECIAL</b>	<b>0</b>

# MATERIAL SAFETY DATA SHEET

TRADE NAME (On Label)	<b>GAS GRATE CLEANER</b>		FORMULA I.D. NUMBER	<b>#106-137</b>
PRODUCT TYPE	<b>Cooking and Baking Utensils Cleaner</b>	CHEMICAL FORMULA	<b>Mixture</b>	CHEMICAL NAME OR SYNONYM
<b>N/A</b>				

The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. It is the responsibility of the user to comply with all applicable federal, state and local laws and regulations.

## SECTION I - COMPOSITION

COMPONENT	CAS REG NO.	APPROX. % WT.	OSHA TLV	ACGIH TLV
<b>Sodium Metasilicate</b>	<b>6834-92-0</b>	<b>48-52</b>	<b>10 mg/m<sup>3</sup></b>	<b>10 mg/m<sup>3</sup></b>

## SECTION II - PHYSICAL PROPERTIES

APPEARANCE - ODOR	<b>White Granular Powder - Soapy Odor</b>		pH	<b>12.0 - 12.6 (1% solution)</b>	VISCOSITY (Cps.)	<b>N/A</b>
FREEZING POINT (°F)	<b>N/A</b>	BOILING POINT (°F)	<b>N/A</b>	VAPOR PRESSURE (mm Hg)	<b>N/A</b>	VAPOR DENSITY (AIR = 1)
SOLUBILITY IN WATER	<b>soluble</b>	VOLATILE (% WT.)	<b>4.0 ± 0.2%</b>	SPECIFIC GRAVITY (g/ml)	<b>N/A</b>	EVAP. RATE (Butyl Acetate = 1)
<b>N/A</b>						

## SECTION III - FIRE AND EXPLOSION HAZARD

FLASH POINT (°F)	<b>NOT FLAMMABLE</b>	AUTO IGNITION (°F)	<b>DOES NOT IGNITE</b>	LOWER EXPLOSION LIMIT (%)	<b>N/A</b>	UPPER EXPLOSION LIMIT (%)	<b>N/A</b>
EXTINGUISHING MEDIUM	<input checked="" type="checkbox"/> FOAM	<input checked="" type="checkbox"/> ALCOHOL FOAM	<input checked="" type="checkbox"/> DRY CHEM.	<input checked="" type="checkbox"/> WATER	<input type="checkbox"/> OTHER		
SPECIAL FIRE FIGHTING PROCEDURES							
<b>To keep this product cool when fire is near, water is the best selection as a fire fighting media.</b>							
UNUSUAL FIRE AND EXPLOSION HAZARDS							
<b>None</b>							

## SECTION IV - HEALTH HAZARD

THRESHOLD LIMIT VALUES	10 mg/m <sup>3</sup>	<input type="checkbox"/> ACGIH	<input checked="" type="checkbox"/> OSHA	<input type="checkbox"/> NONE ESTABLISHED	
PRIMARY ROUTES OF EXPOSURE	<input checked="" type="checkbox"/> EYE	<input checked="" type="checkbox"/> SKIN	<input type="checkbox"/> ORAL	<input checked="" type="checkbox"/> INHALATION	
CARCINOGENS OR SUSPECTED CARCINOGENIC INGREDIENTS	<input type="checkbox"/> NIP	<input type="checkbox"/> IARC	<input type="checkbox"/> OSHA	<input checked="" type="checkbox"/> NONE	
EFFECTS OF OVEREXPOSURE					
<b>If in contact with eyes, it will cause burns. Inhalation of its dust can cause irritation of nasal and respiratory passages. Prolonged or repeated contact with skin may product skin irritation. Effects of ingestion of this product include nausea, vomiting, gastrointestinal irritation.</b>					

## SECTION IV - HEALTH HAZARD CONTINUED

EMERGENCY AND FIRST AID PROCEDURES	
<b>IF IN EYES:</b>	<b>Immediately flush with water for at least 15 minutes, lifting upper and lower lids occasionally to facilitate thorough washing. Call a physician for treatment.</b>
<b>IF ON SKIN:</b>	<b>Flush with water. If irritation develops, seek medical attention. Remove contaminated clothing and launder before reuse.</b>
<b>IF SWALLOWED:</b>	<b>Drink plenty of milk or water. Do not induce vomiting. Call a physician for treatment. If spontaneous vomiting occurs, keep head below hips to prevent aspiration of liquid into lungs.</b>

## SECTION V - REACTIVITY

STABILITY <input checked="" type="checkbox"/> STABLE <input type="checkbox"/> UNSTABLE	CONDITIONS TO AVOID <b>Avoid contact with strong mineral acids.</b>
HAZARDOUS DECOMPOSITION PRODUCTS <b>As with any organic material, combustion will produce Carbon Dioxide, probably Carbon Monoxide and other undetermined organic compounds.</b>	
HAZARDOUS POLYMERIZATION <input type="checkbox"/> MAY OCCUR <input checked="" type="checkbox"/> WILL NOT OCCUR	CONDITIONS TO AVOID <b>N/A</b>
INCOMPATIBILITY <input type="checkbox"/> WATER <input checked="" type="checkbox"/> OTHER	MATERIALS TO AVOID <b>Do not mix this product with strong acids, especially in confined areas.</b>

## SECTION VI - SPILL OR LEAK PROCEDURE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED <b>For SMALL SPILLS, sweep the spill up and either use the product, place in trash, or flush down drain. For LARGE SPILLS, shovel material into plastic containers, sweep, and wash area.</b>
WASTE DISPOSAL METHODS <b>If intended to be discarded as is, deposit in landfill in accordance with local, state, and federal regulations.</b>

## SECTION VII - SPECIAL PROTECTION

VENTILATION TYPE <b>Provide sufficient mechanical ventilation to maintain the TLV value below 10 mg/m<sup>3</sup>.</b>	
RESPIRATORY PROTECTION <b>No respiratory protection is required during normal use of this product. Keep dust generation to a minimum level.</b>	
PROTECTIVE GLOVES <b>For sensitive skin, use rubber gloves.</b>	EYE PROTECTION <b>None needed for normal use. If contact may reasonably be expected to occur, use splash goggles.</b>
OTHER PROTECTIVE EQUIPMENT <b>Impermeable apron may be used to avoid contamination of clothing which can result in continued contact with the skin.</b>	

## SECTION VIII - STORAGE AND HANDLING

<b>Use and store this product with adequate ventilation. Do not transfer product for storage or use into unmarked containers.</b>
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## SECTION IX - SHIPPING

PROPER SHIPPING NAME:	<b>Cleaning Detergent</b>
U.S. DOT HAZARD CLASS:	<b>Not regulated</b>
U.S. DOT I.D. No.:	<b>N/A</b>
LABEL REQUIREMENTS:	<b>None</b>

## SECTION X - MISCELLANEOUS

<b>None</b>		
ABBREVIATIONS:	N/A : NOT APPLICABLE N/D : NOT DETERMINED N/E : NOT ESTABLISHED	UNK : UNKNOWN < : LESS THAN > : GREATER THAN
PREPARED BY <b>George C. Kyros</b>	DATE <b>March 27, 2001</b>	SUPERSEDES <b>May 21, 1997</b>