

U.S. DEPARTMENT OF LABOR

AUTHORIZED DISTRIBUTOR:
E. & F. KING & CO., INCORPORATED
640 PLEASANT ST.
NORWOOD, MASS. 02062
617-762-3113

WAGE AND LABOR STANDARDS ADMINISTRATION
Bureau of Labor Standards

MATERIAL SAFETY DATA SHEET

PLAINTIFF'S EXHIBIT

BIR-811

SECTION I

MANUFACTURER'S NAME LINDEN CHLORINE PRODUCTS, INC.		EMERGENCY TELEPHONE NO. 201-862-1666
ADDRESS (Number, Street, City, State, and ZIP Code) 14 Commerce Drive, Cranford, New Jersey 07016		
CHEMICAL NAME AND SYNONYMS SODIUM HYDROXIDE, 50% Aqueous		TRADE NAME AND SYNONYMS CAUSTIC SODA, 50% Liquid
CHEMICAL FAMILY Alkali	FORMULA NaOH	

SECTION II HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS N O			BASE METAL		
CATALYST T A			ALLOYS		
VEHICLE P P			METALLIC COATINGS		
SOLVENTS L I			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES C A			OTHERS		
OTHERS B L E					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)

SECTION III PHYSICAL DATA

BOILING POINT (°F.)	288	SPECIFIC GRAVITY (H ₂ O=1)	Approx.	1.5
VAPOR PRESSURE (mm Hg.)		PERCENT VOLATILE BY VOLUME (%)		50%
VAPOR DENSITY (AIR=1)		EVAPORATION RATE (_____=1)		
SOLUBILITY IN WATER	Sol.	(is hygroscopic)		
APPEARANCE AND ODOR	Clear, slightly viscous liquid.			

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	None	FLAMMABLE LIMITS	Let	Uet
EXTINGUISHING MEDIA				
SPECIAL FIRE FIGHTING PROCEDURES				
UNUSUAL FIRE AND EXPLOSION HAZARDS	None			

**ORIGINAL
DO NOT TAKE**

SECTION V HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	(Not volatile)
EFFECTS OF OVEREXPOSURE	Is corrosive to skin and eyes.
EMERGENCY AND FIRST AID PROCEDURES	
In case of contact, immediately flush skin or eyes with plenty of water for at least 15 minutes. For eyes, call a physician.	
Remove contaminated clothing and shoes and wash before re-use.	

SECTION VI REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	
INCOMPATIBILITY (Materials to avoid)			
HAZARDOUS DECOMPOSITION PRODUCTS			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	

SECTION VII SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	
FLUSH WITH PLENTY OF WATER TO SEWER.	
WASTE DISPOSAL METHOD	
For small amounts, dilute with large amount of water to sewer.	

SECTION VIII SPECIAL PROTECTION INFORMATION		
RESPIRATORY PROTECTION (Specify type)		
VENTILATION	LOCAL EXHAUST	SPECIAL
	MECHANICAL (General)	OTHER
PROTECTIVE GLOVES	Rubber	EYE PROTECTION
OTHER PROTECTIVE EQUIPMENT		Goggles or face shield
Rubber apron, if indicated.		

SECTION IX SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	
Do not add water to Caustic Soda. Always add Caustic slowly with water with agitation.	
OTHER PRECAUTIONS	
See MCA Chemical Safety Data Sheet SD-9.	

Mat'l Safety Data Sheet
LABORATORY PROCESS

BIRD 013174