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U.S. DEPARTMENT OF LABOR 5-4-81

Occupational Safety and Health Administration

Form Approved OMB No. 44 R1387

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing, Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME: KOLENE CORPORATION	EMERGENCY TELEPHONE NO.: (313) 273-9220
ADDRESS (Number, Street, City, State, and ZIP Code): 12890 Westwood Avenue, Detroit, Michigan 48223	
CHEMICAL NAME AND SYNONYMS: Cleaning chemicals	TRADE NAME AND SYNONYMS: KOLENE LTS
CHEMICAL FAMILY: Caustic alkali	FORMULA: KOH, $NaNO_3$, $KMnO_4$

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS					

NOT APPLICABLE

NOT APPLICABLE

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES		%	TLV (Units)
Potassium hydroxide	45-65% Wt.		
Sodium nitrate	30-45% Wt.		
Potassium permanganate	5% Max.		

SECTION III - PHYSICAL DATA

BOILING POINT (°F.) Over	1200	SPECIFIC GRAVITY (H_2O=1)	2
VAPOR PRESSURE (mm Hg.)	0	PERCENT, VOLATILE BY VOLUME (%)	0
VAPOR DENSITY (AIR=1)	N.A.	EVAPORATION RATE (_____ =1)	N.A.
SOLUBILITY IN WATER	Complete		

APPEARANCE AND ODOR: Pinkish-gray granular odorless solid

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	FLAMMABLE LIMITS	Lel	Uel
None	N.A.	N.A.	N.A.

EXTINGUISHING MEDIA: Carbon dioxide and dry powders in vicinity of molten salts.

SPECIAL FIRE FIGHTING PROCEDURES: Avoid vaporizing liquids, water, and acid compounds in salt baths.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Introduction of water, vaporizing liquids, magnesium or reducing agents into molten bath may cause serious explosions.

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

EFFECTS OF OVEREXPOSURE ~~2 mg/m^3 of air~~

Effects of contact range from irritation to severe destruction of tissues.

EMERGENCY AND FIRST AID PROCEDURES

Flood affected surfaces with warm water for at least 15 minutes and contact a physician.

SECTION VI - REACTIVITY DATA

STABILITY			CONDITIONS TO AVOID
	UNSTABLE		
	STABLE	X	Overheating above 1000°F.

INCOMPATABILITY *(Materials to avoid)*

water, acids, reducing agents.

HAZARDOUS DECOMPOSITION PRODUCTS

None likely below 1000°F. Nitrogen oxides possible above this temperature.

HAZARDOUS POLYMERIZATION			CONDITIONS TO AVOID
	MAY OCCUR		
	WILL NOT OCCUR	X	N.A.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Sweep or shovel solid material into metal containers.

Avoid personal contact. Rinse or hose area well.

WASTE DISPOSAL METHOD

Dissolve in cold water and neutralize with acid.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION *(Specify type)*

Dust mask when handling solid salt.

VENTILATION		
	LOCAL EXHAUST Forced exhaust over salt bath.	SPECIAL
	MECHANICAL *(General)* Required.	OTHER

PROTECTIVE GLOVES	EYE PROTECTION
Rubber for solid salt.	Face shield

OTHER PROTECTIVE EQUIPMENT

Heat-proof gloves and appropriate apparel for molten salt.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Store in a dry area. Avoid contact of salt with acids.

Keep drums closed when not in use.

OTHER PRECAUTIONS

Avoid bodily contact.

The information presented here is based on tests believed to be reliable. It is intended to be helpful, but we cannot assure that similar results would be produced under varying conditions.