

1.	PRODUCT AND COMPANY ID	ENTIFICATION			
Product Code:	0080				
Product Name:	LIQUID METAL BRITE				
Company Name:					
	SUPPLY	(903)757-2723			
	809 S. EASTMAN RD. LONGVIEW, TX 75602				
Emorrow Contract	CHEM-TEL, INC.	(800)255-3924			
Emergency Contact:	,				
Intended Use:	LIQUID DISHMACHINE DETERGENT				
	2. HAZARDS IDENTIFIC	ATION			
GHS Signal Word:	Dangar				
GHS Hazard Phrases:	Danger H314 - Causes severe skin burns and eve	e damage			
GHS Precaution Phrases:	H314 - Causes severe skin burns and eye damage.				
GIIS Flecautoli Fillases.	hrases: P264 - Wash hands thoroughly after handling. P280 - Wear protective gloves/protective clothing/eye protection/face protection.				
GHS Response Phrases:	 P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. P363 - Wash contaminated clothing before reuse. P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P310 - Immediately call a POISON CENTER/doctor/ P321 - Specific treatment see on this label. 				

GHS Storage and Disposal P405 - Store locked up.

(Acute and Chronic):

Phrases: P501 - Dispose of contents/container to

Potential Health Effects Prolonged or repeated skin contact may cause dermatitis.

Chronic: Effects may be delayed.

Skin Contact:Causes skin burns. May cause deep, penetrating ulcers of the skin. May cause skin rash
(in milder cases), and cold and clammy skin with cyanosis or pale color. Causes skin
irritation. Causes redness and pain.

Eye Contact:Causes eye burns. May cause chemical conjunctivitis and corneal damage. Causes eye
irritation. Causes redness and pain.

Ingestion: May cause severe and permanent damage to the digestive tract. Causes gastrointestinal tract burns. Causes severe pain, nausea, vomiting, diarrhea, and shock. May cause corrosion and permanent tissue destruction of the esophagus and digestive tract. May cause systemic effects. Ingestion of large amounts can cause hypocalcemic tetany due to formation of calcium complexes. Exposure may cause kidney injury, muscle cramps, bone-marrow depression, and a generalized allergic reaction. Ingestion of large quantities may cause appreciable systemic toxicity involving blood chemistry changes due to chelation properties.

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	3. COI	MPOSITION/INFOR	MATION ON INGREDIENTS			
CAS# H	azardous Comp	onents (Chemical Name)	Concentration			
1310-73-2 S	dium hydroxide		12.0 %			
		4. FIRST AI	D MEASURES			
Emergency and	First Aid					
			ater for at least 15 minutes while removing contamir			
In Case of Skin		-	hing and shoes. Get medical aid immediately. Wash clothing before reuse.			
In Case of Eye (Contact:	In case of contact, immediately flush eyes with plenty of water for a t least 15 minutes. Get medical aid immediately. Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids.				
In Case of Inges	stion:	Get medical aid immediately. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person.				
Note to Physici	an:	Treat symptomatically and supportively.				
		5. FIRE FIGHT	ING MEASURES			
Flash Pt:		No data.				
Explosive Limit	ts:	LEL: No data.	UEL: No data.			
Autoignition Pt		No data.				
Suitable Exting	uishing Media		ble; use agent most appropriate to extinguish surro ontainers. Use water spray, dry chemical, carbon d	-		
Fire Fighting In	structions:	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Use water spray to keep fire-exposed containers cool. Use water with caution and in flooding amounts. Contact with moisture or water may generate sufficient heat to ignite nearby combustible materials. Contact with metals may evolve flammable hydrogen gas. Dusts at sufficient concentrations can form explosive mixtures with air. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.				
Flammable Pro Hazards:	perties and	No data available.				
	(6. ACCIDENTAL R	ELEASE MEASURES			
Steps To Be Ta Material Is Rele Spilled:		Spills/Leaks: Vacuum or s Avoid runoff into storm sev immediately, observing pro	ctive equipment as indicated in Section 8. weep up material and place into a suitable disposal wers and ditches which lead to waterways. Clean up ecautions in the Protective Equipment section. Avoi is. Provide ventilation. Do not get water on spilled s	p spills id		
		7. HANDLING	AND STORAGE			
Precautions To Handling:	Be Taken in	violent reaction. Minimize o or on clothing. Keep contai	dling. Do not allow water to get into the container be dust generation and accumulation. Do not get in eye ner tightly closed. Avoid ingestion and inhalation. D only with adequate ventilation. Remove contaminate	es, on skin)iscard		
Precautions To Storing:	Be Taken in	incompatible substances. I acids. Store protected from	ntainer. Store in a cool, dry, well-ventilated area aw Keep away from metals. Corrosives area. Keep awa n moisture. Containers must be tightly closed to pre- lium carbonate by the CO2 in air. Do not store in di	ay from vent the		
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sunlight.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS #	Partial Chemical	Name OSH	IA TWA	ACGIH TWA	Other Limits	
1310-73-2	Sodium hydroxide	PEL:	2 mg/m3	CEIL: 2 mg/m3	No data.	
Respiratory (Specify Typ		No data available.				
Eye Protection:Wear chemical splash goggles. Wear appropriate protective eyeglasses or che safety goggles as described by OSHA's eye and face protection regulations in 1910.133 or European Standard EN166.						
Protective G	loves:	Wear appropriate protec	tive gloves to pre	event skin exposure.		
Other Protec	tive Clothing:	Wear appropriate protect	tive clothing to p	revent skin exposure.		
Engineering	Controls	Facilities storing or utilizi	ng this material s	should be equipped with	an eyewash facility and	
(Ventilation e	etc.):	a safety shower.				
	9.	PHYSICAL AND	CHEMICAL	PROPERTIES		
Physical Sta	tes:	[]Gas [X]Liquid	[] Solid			
Appearance	and Odor:	Appearance: Red. Liquic Odor: Odorless.	I.			
Melting Poin	t:	No data.				
Boiling Point	t:	No data.				
Autoignition	Pt:	No data.				
Flash Pt:		No data.				
Explosive Li	mits:	LEL: No data.	UEL	.: No data.		
Specific Grav	vity (Water = 1):	1.246				
Vapor Press mm Hg):	ure (vs. Air or	No data.				
Vapor Densi	ty (vs. Air = 1):	No data.				
Evaporation	Rate:	No data.				
Solubility in	Water:	No data.				
pH:		13				
Percent Vola	tile:	No data.				
10. STABILITY AND REACTIVITY						
Stability:		Unstable [] Stable	[X]			
Conditions T Instability:	o Avoid -	Moisture, contact with wa	ater. Exposure to	moist air or water, dust	generation.	
Incompatibil Avoid:	ity - Materials To	Water, Metals. acids, Alu organic halogens. Strong	•		•	
Hazardous Decomposition Or Nitrogen oxides, Carbon monoxide. Byproducts:						
Possibility o Reactions:	f Hazardous	Will occur [] Will no	ot occur [X]			
Conditions T Hazardous R		No data available.				
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	11. TOXICOLOGICAL	INFORMA	TION		
Toxicological Information:	Epidemiology: No information found. Teratogenicity: No information available. Reproductive Effects: Mutagenicity: See actua entry in RTECS for complete information. Neurotoxicity: CAS# 1310-73-2: Sodium hydroxide:			ity: See actual	
Irritation or Corrosion:	Acute toxicity, LDLO, Oral, Speci Results: Effects on Newborn: Stillbirth. Effects on Newborn: Live birth in Effects on Newborn: Weaning or day {4)}. - Naunyn-Schmiedeberg's Archiv Vol/p/yr: 184,587, 1937	es: Rabbit, 500 dex (# fetuses p lactation index	oer litter; mea (e.g., # alive	at weaning p	per # alive at
	Standard Draize Test, Skin, Species: Rabbit, 500.0 MG, 24 H. Results: Behavioral: Somnolence (general depressed activity). Vascular: BP lowering not charactertized in autonomic section. Skin and Appendages: Skin: After topical exposure: Corrosive. - "Sbornik Vysledku Toxixologickeho Vysetreni Latek A Pripravku,", Institut Pro Vychovu Vedoucicn P, Marhold, J.V., Institut Pro Vychovu Vedoucicn, Pracovniku Chemickeho, Prumyclu Praha Czechoslovakia, Vol/p/yr: -,7, 1972				
Carcinogenicity/Other	Skin corrosion/irritation. Ingestion CAS# 1310-73-2: Not listed by A	CGIH, IARC, N⁻	TP, or CA Pr	op 65. CAS#	60-00-4: Not
Information:	listed by ACGIH, IARC, NTP, or (CA Prop 65.			
	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA
1310-73-2 Sodium hydroxic	e	n.a.	n.a.	n.a.	n.a.
	12. ECOLOGICAL IN	IFORMATI	ON		
General Ecological Information:	Ecotoxicity: Fish: Channel catfish Rainbow trout: LC50 = 340 mg/L 129-159 mg/L; 96Hr; Unspecified Static bioassayWater flea Daphn soil, EDTA is expected to complet the soil, thereby causing an incre eventually predominate as the Fe alkaline soils. Biodegradation of I mechanism, although biodegrada not expected to bioaccumulate in sediments or volatilize from wate Environmental: EDTA and its che significant volatilization from soil to complex with trace metals and expected to take place relatively under anaerobic conditions. Com EDTA biodegradation. EDTA may radicals (half-life 229 days) and it Physical: Compounds identified a ferric chelate of EDTA are as follo iminodiacetic acid (IDA), N,N-eth	24Hr; Unspeci Fish: Fathead M a: LC50 100 pp x with trace me ase in the total (III) chelate in a EDTA in aerobic aquatic organis r surfaces. lates are expect s not expected. alkaline earth r slowly under ae etabolism has b y react with pho may photodeg s possible biod	fiedFish: Blu Minnow: 100 om; 96 Hr; St tals and alka solubility of t acidic soils a c soils is the ic soils is the ic soils is ne sms, adsorb ted to leach . If released robic conditi peen sugges tochemically rade. egradation p amine triace	egill/Sunfish: % Lethal = 75 atic bioassay line earth me he metals. El nd as the Ca dominant ren gligible. glycin to suspended readily throug to water, EDT egradation of ons and to be ted as the me generated h roducts of the tic acid (ED3)	LC50 = 50 ppm; 96 Hr; r If released to etals present in DTA may chelate in noval ne. EDTA is d solids or gh soil and TA is expected EDTA is e negligible echanism for ydroxyl e ammonium A), N,N'-EDDA,
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Results of PBT and vPvB	following photodegra	dation products of Fe(III) yde, ED3A, N,N-EDDA,)-EDTA have be	
assessment:	LC50, Western Mosquitofish (Gambusia affinis), adult(s), 125000. UG/L, 24 H, Mortality, Water temperature: 22.00 C (71.6 F) - 24.00 C (75.2 F) C, pH: 9.00; Toxicity to Gambusia affinis of Certain Pure Chemicals in Turbid Waters, Wallen, I.E., W.C. Greer, and R. Lasater, 1957			
	13. DISPOS	AL CONSIDERA	TIONS	
Waste Disposal Method:	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. RCRA P-Series: None listed. RCRA U-Series: None listed.			
	14. TRANS	PORT INFORMA	TION	
LAND TRANSPORT (US DOT DOT Proper Shipping Nat DOT Hazard Class: UN/NA Number:	me: Sodium hydroxid	e solution. CORROSIVE Packing C	Group:	II
LAND TRANSPORT (Canadia TDG Shipping Name:	SODIUM HYDRO	XIDE, SOLID. No inform		
		TORY INFORM		
This material meets the EPA 'Hazard Categories' defined for SARA Title III Sections 311/312 as indicated:	[]Yes [X] No Chro []Yes [X] No Fire	onic (delayed) Health Ha Hazard den Release of Pressure	zard	
CAS # Hazardous Com 1310-73-2 Sodium hydroxid	ponents (Chemical Nar e	ne) Other US EPA of TSCA: Inventory		
	16. OTH	ER INFORMATIC	DN	
Revision Date:	10/28/2013			
Additional Information About This Product:	No data available.			
Company Policy or Disclaimer:	event be responsible from any publication either expressed or in	or use of or reliance upo	oever, either di on data containe y, of fitness for	rectly or indirectly, resulting ed herein. No warranty, a particular purpose, or of
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The information contained in this Material Safety Data Sheet is supplied pursuant to OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements