	1. PRODUCT AND COMPANY				
Product Name: Company Name:	Klean-Strip Muriatic Acid W. M. Barr 2105 Channel Avenue Memphis, TN 38113	Phone Number: (901)775-0100			
Web site address:	www.wmbarr.com				
Emergency Contact: Information:	3E 24 Hour Emergency Contact W.M. Barr Customer Service	(800)451-8346 (800)398-3892			
Intended Use:	Cleaning and Surface Preparation				
Synonyms:	GMA58				
Additional Information	This product is regulated by the United States Consumer Product Safety Commission and is subject to certain labeling requirements under the Federal Hazardous Substances Act. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS). The product label also includes other important information, including directions for use, and should always be read in its entirety prior to using the product.				
	2. HAZARDS IDENTI	FICATION			

Acute Toxicity: Inhalation, Category 3 Skin Corrosion/Irritation, Category 1A-1C Serious Eye Damage/Eye Irritation, Category 1 Specific Target Organ Toxicity (single exposure), Category 3



GHS Signal Word:	Danger
GHS Hazard Phrases:	H290: May be corrosive to metals.
	H314: Causes severe skin burns and eye damage.
	H318: Causes serious eye damage.
	H331: Toxic if inhaled.
	H335: May cause respiratory irritation.
GHS Precaution Phrases:	P234: Keep only in original container.
	P260: Do not breathe fume/gas/mist/vapors/spray.
	P264: Wash hands thoroughly after handling.
	P271: Use only outdoors or in a well-ventilated area.
	P280: Wear protective gloves/protective clothing/eye protection/face protection.
GHS Response Phrases:	P301+330+331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
	P303+361+353: IF ON SKIN (or hair): Remove/take off immediately all contaminated
	clothing. Rinse skin with water/shower.
	P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
	P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove
	contact lenses, if present and easy to do. Continue rinsing.
	P310: Immediately call a POISON CENTER or doctor/physician.
	P321: Specific treatment see label.
	P363: Wash contaminated clothing before reuse.
	P390: Absorb spillage to prevent material damage.
GHS Storage and Disposal	P403+233: Store container tightly closed in well-ventilated place.

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P405: Store locked up.					
P501: Dispose of contents/container according to local, state and federal regulations.					
HEALTH * 3 FLAMMABILITY 0 PHYSICAL 0 PPE H					
NFPA: V Special Hazard					
This material is classified as hazardous under OSHA regulations.					
Inhalation Acute Exposure Effects:					
Inhalation of muriatic acid vapors can cause irritation of respiratory tract, burns, pulmonary edema, and coughing.					
Inhalation long term exposure: Long term exposure to muriatic acid can cause erosion of the teeth.					
Skin Contact Acute Exposure Effects:					
May cause severe burns, irritation, pain, and ulceration.					
Skin contact long term exposure: May cause dermatitis.					
Eye Contact Acute Exposure Effects: May cause severe burns, eye damage, and blindness.					
Eye contact long term exposure: No effects are known.					
Ingestion Acute Exposure Effects: Poison. May be fatal if swallowed. May cause severe irritation, perforation of the intestinal tract, and burns in mouth, pharynx, and gastrointestinal tract. May cause intense pain, nausea, vomiting, bleeding, circulating collapse, and shock.					

Medical Conditions Generally Respiratory system (including asthma and other breathing disorders) Aggravated By Exposure:

3. COMPOSITION/INFORMATION ON INGREDIENTS

RTECS # MW4025000

CAS #	Hazardous Components (Chemical Name)	Concentration
7647-01-0	Hydrochloric acid {Hydrogen chloride}	31.0 -35.0 %

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	<u>4. FIRST All</u>	D MEASURES			
Emergency and First Aid	Inhalation:				
Procedures:	If user experiences breathing difficulty, move to air free of vapors. Administer oxygen or artificial respiration until medical assistance can be rendered. Obtain medical attention immediately.				
	Skin Contact: Wash with soap and large quantities of water and remove contaminated clothing, jewelry, and shoes immediately. Wash for 15 minutes. If irritation persists, seek medical attention.				
	Continue to flush with water ensure complete irrigation of	ith large quantities of water, remove any contact lens. for at least 15 minutes, forcibly holding eyelids apart to f all of the eye and lid tissues. Flushing the eyes with water sential to achieve maximum effectiveness. Seek immediate			
	anything by mouth to an unc emergency room or physicia	e milk of magnesia or large amounts of water. Never give onscious person. Call your poison control center, hospital n immediately for instructions. If vomiting occurs clear. Give more water when vomiting stops.			
Signs and Symptoms Of Exposure:	See potential health effects.				
Note to Physician:	Call your local poison control center for further information.				
	-	or symptoms of burns does not reliably exclude the mage. Probable mucosal damage may contraindicate the			
	5. FIRE FIGHT	NG MEASURES			
Flash Pt:	No data.				
Explosive Limits:	LEL: No data.	UEL: No data.			
Autoignition Pt:	No data.				
Suitable Extinguishing Med	a:Use extinguishing agent sui	table for type of surrounding fire.			
Fire Fighting Instructions:	approved positive -pressure exposed to fire should be keep	way, isolate hazard area and deny entry. Wear NIOSH self-contained breathing apparatus. Storage containers ept cool with water spray to prevent pressure build-up. Stay ers that have been exposed to intense heat or flame. Move be done without risk.			
Flammable Properties and Hazards:	Non-flammable				

6. ACCIDENTAL RELEASE MEASURES							
Steps To Be Taken In Case Material Is Released Or Spilled:	Small Spills: Keep unnecessary people away and isolate hazard area. Wear appropriate personal protective equipment. Take up liquid with sand, earth or other noncombustible absorbent material and place in a plastic container where applicable. Material may be neutralized with baking soda, soda ash, or dilute caustic soda. Stay upwind, out of low areas, and ventilate closed spaces before entering.						
	Large Spills: Evacuation of surrounding area may be necessary for large spills. Wear appropriate personal protective equipment. Completely contain spilled material with dikes, sandbags, etc. Shut off ventilation system if needed. Reprocess or reuse if possible. Neutralize with soda ash or dilute caustic soda. Collect with appropriate absorbent and place into suitable container. Keep out of sewers and water supplies. This material is acidic and may lower the pH of the surface waters with low buffering capacity.						
	7. HAND	DLING AND S	TORAGE				
Precautions To Be Taken in Handling:	 Read carefully all cautions and directions on product label before use. Since empty container retains residue, follow all label warnings even after container is empty. Dispose of empty container according to all regulations. Do not reuse this container. 						
	Avoid breathing vapor or mist. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling.						
	When mixing, slowly add acid to water to minimize heat generation and spattering. Never add water to acid.						
	Keep container tightly closed when not in use. Keep container properly labeled.						
Precautions To Be Taken in Storing:	en in Keep container tightly closed when not in use. Store in a cool, dry place away from direct sunlight and heat to avoid container deterioration. Avoid storage at extreme high or low temperatures. Protect from freezing. Keep container properly labeled. Keep separated from incompatible substances.						
	Store in acid-resistant plastic, glass containers, or rubber-lined steel containers. Do not store in aluminum containers or use aluminum fittings or transfer lines.						
8. EXPOSURE CONTROLS/PERSONAL PROTECTION							
CAS # Partial Chemica	I Name	OSHA TWA	ACGIH TWA	Other Limits			
7647-01-0 Hydrochloric acid	d {Hydrogen chloride}	CEIL: 5 ppm	CEIL: 2 ppm)	No data.			

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Respiratory Equipment (Specify Type):	Where vapor concentration exceeds or is likely to exceed applicable exposure limits, a NIOSH approved respirator with acid gas cartridges is required. When an air-purifying respirator is not adequate or for spills and/or emergencies of unknown concentrations, a NIOSH approved self-contained breathing apparatus or airline respirator with full-face piece is required. A respiratory protection program that meets 29 CFR 1910.134 must be followed whenever workplace conditions warrant use of a respirator.
	For OSHA controlled work place and other regular users. Use only with adequate ventilation under engineered air control systems designed to prevent exceeding appropriate TLV.
	For occasional consumer use, where engineered air control is not feasible, use properly maintained and properly fitted NIOSH approved respirator. A dust mask does not provide protection against vapors.
Eye Protection:	Safety glasses with side shields. Wearing chemical goggles with a face shield is recommended to safeguard against potential eye contact, irritation, or injury. Contact lenses should not be worn.
	Provide an emergency eyewash station or quick drench shower in the immediate work area.
Protective Gloves:	Wear impermeable gloves. Gloves contaminated with product should be discarded. Promptly remove clothing that becomes soiled with products.
Other Protective Clothing:	Wear chemical resistant clothing and rubber boots when potential for contact with the material exists.
	Various application methods can dictate use of additional protective safety equipment, such as impermeable aprons, etc., to minimize exposure.
	Before reuse, thoroughly clean any clothing or protective equipment that has been contaminated by prior use. Discard any clothing or other protective equipment that cannot be decontaminated, such as gloves or shoes.
Engineering Controls (Ventilation etc.):	Use closed system when possible. Provide local exhaust ventilation where vapor or mist may be generated. Ensure compliance with applicable exposure limits.
	Use only with adequate ventilation to prevent build-up of vapors. Open all windows and doors. Use only with a cross ventilation of moving fresh air across the work area. If strong odor is noticed or you experience slight dizziness, headache, nausea, burning sensations, or eye-watering Stop ventilation is inadequate. Leave area immediately.
Work/Hygienic/Maintenance Practices:	A source of clean water should be available in the work area for flushing of eyes and skin.
	Wash hands thoroughly after use and before eating, drinking, or smoking. Do not eat, drink, or smoke in the work area. Discard any clothing or other protective equipment that cannot be decontaminated.

	PHYSICAL					es Revision: 03/27/2018
] Solid	TROPER		
Physical States:	No data available	• •] 50110			
Appearance and Odor:	No data.	;.				
Melting Point:	123.00 F					
Boiling Point:	No data.					
Autoignition Pt: Flash Pt:	No data.					
Explosive Limits:	LEL: No data.			.: No data.		
Specific Gravity (Water = 1):			UEL	. NU uala.		
Bulk density:	9.660 LB/GA					
Vapor Pressure (vs. Air or	No data.					
mm Hg):	No dala.					
Vapor Density (vs. Air = 1):	No data.					
Evaporation Rate:	No data.					
Solubility in Water:	No data.					
Percent Volatile:	99.999 % by wei	ght.				
	10. STAE	BILITY A	ND REA	CTIVITY		
Stability:	Unstable []	Stable [X]				
Conditions To Avoid - Instability:	No data available					
Avoid:	cesium and rubic (which may produ metals (which pro	lium, phosph uce lethal co oduce flamm	ides of calc ncentrations able hydrog	ium and urani s of hydrocyar jen gas).	um, lithium s nic acid), and	ium, acetylides of ilicide, cyanides I common and activ
Hazardous Decomposition O Byproducts:	r Thermal decomp	position may	produce hy	drogen chlorid	de vapors.	
Possibility of Hazardous Reactions:	Will occur []	Will not occ	cur[X]			
Conditions To Avoid - Hazardous Reactions:	No data available	9.				

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Supersedes Revision:	03/27/2015

11. TOXICOLOGICAL INFORMATION						
Toxicological Information: Refer to section 2 for acute and chronic effects.						
Chronic Toxicological Long term exposure to muriatic acid can cause erosion of the teeth.						
Effects:						
CAS # Hazardous	Components (Chemical Name)	NTP	IARC	ACGIH	OSHA	
7647-01-0 Hydrochloric	acid {Hydrogen chloride}	n.a.	3	A4	n.a.	
	12. ECOLOGICA	AL INFORMAT	ION			
	No data available.					
	13. DISPOSAL C	ONSIDERATI	ONS			
Waste Disposal Method:	Dispose in accordance with	n applicable local, sta	ate, and feder	al regulations	S.	
	14. TRANSPOR	T INFORMAT	ION			
LAND TRANSPORT (US I	DOT):					
DOT Proper Shipping	Name: Hydrochloric acid					
DOT Hazard Class:	8 CORR					
UN/NA Number:	UN1789	Packing Gr	oup:	II		
	15. REGULATO		ΓΙΟΝ			
This material meets the E	PA [X] Yes [] No Acute (imi	mediate) Health Haz	ard			
'Hazard Categories' define		lelayed) Health Haza	ard			
for SARA Title III Sections 311/312 as indicated:		ro elease of Pressure I	Hazard			
	[X] Yes [] No Reactive I					
CAS # Hazardous	Components (Chemical Name)	Other US EPA or	State Lists			
	acid {Hydrogen chloride}	CAA HAP,ODC: H	IAP; CWA NPE	DES: No; TSC	A: Yes -	
		Inventory, 4 Test;	CA PROP.65:	No		
Regulatory Information	All components of this mate	erial are listed on the	e TSCA Invent	tory or are ex	empt.	
Statement:						
	16. OTHER I	NFORMATION	١			
Revision Date:	04/16/2015					
Preparer Name:	W.M. Barr EHS Departmen	t (901)775-0100				
Additional Information At This Product:	oout No data available.					
Company Policy or	The information contained	herein is presented i	n good faith a	nd believed t	o be accurate	
Disclaimer:	as of the effective date sho				-	
	any kind. Employers should		-			
	information gathered by the and completeness of inform		-			
	materials and the safety an					
	must be determined by the		-			
	local laws and regulations.					
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