



Material Safety Data Sheet

Muriatic Acid Solutions
Part Number: 01A042

Hukill Chemical Corporation
7013 Krick Road
Bedford, OH 44146-4493

Section I: Chemical Product & Company Identification

Manufacturer	Hukill Chemical Corporation 7013 Krick Road Bedford, OH 44146-4493	Emergency Telephone Number	(800) 962-1143	
		Chemtrec's Telephone Number	(800) 424-9300	
		Prepared By	bcj	
Telephone Number	(440) 232-9400	Date Prepared	August 21, 2002	
Fax Number	(440) 232-9477	HMIS	Health	3
Web Site	http://www.hukill.com		Flammability	0
Email	hukill@hukill.com		Reactivity	1
Synonyms				

Section II: Composition/Information On Ingredients

Hazardous Components	Reportable Under SARA Section 313	CAS Number	OSHA Limits (ppm)			ACGIH TLV (ppm)	%
			PEL	STEL	Ceiling		
Hydrogen chloride	Yes	7647-01-0	N/A	N/A	5	5	0-40
<i>* mg/m³ instead of ppm.</i>							

Section III: Hazardous Identification

Emergency Overview: Danger! Cause Eye & Skin Burns Causes severe respiratory irritation. Harmful if swallowed.							
Route(s) of Entry	Inhalation?	Yes	Skin?	Yes	Ingestion?	Yes	
Health Hazards (Acute and Chronic) Eye contact causes burns or severe irritation with corneal damage. Skin contact causes burns or severe irritation with permanent damage. Breathing causes severe mucous membrane and respiratory irritation with possible lung damage (pulmonary edema). Swallowing causes severe mucous membrane and gastrointestinal burns with shock, collapse and death.							
Signs and Symptoms of Exposure See Health Hazards.							
Carcinogenicity	NTP	No	IARC Monographs	No	OSHA Regulated?	No	
Comments	None.						

Section IV: First Aid

Eye Contact	Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Speed in washing off corrosive material is of primary importance. Get immediate medical attention.
Skin Contact	Immediately flush the skin with plenty of water while removing contaminated clothing and shoes. Get immediate medical attention. Speed in washing off corrosive material is of primary importance.
Inhalation	Remove exposed person from source of exposure to fresh air. If not breathing, ensure clear airway and institute cardiopulmonary resuscitation. If breathing is difficult, administer oxygen if available. Keep affected person warm and at rest. Get immediate m
Ingestion	Immediately call a local physician, a local emergency room or a poison control center. Do not give anything by mouth if victim is semi-conscious or unconscious. If victim is conscious, give 1-3 glasses of water or milk.



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Section V: Fire Fighting Measures

Flash Point (method used)	Flammable Limits	LEL	UEL
N/A		N/A	N/A
Extinguishing Media Use extinguishing agent suitable for type of surrounding fire. Material itself burns with difficulty.			
Special Fire Fighting Procedures			
Use NIOSH/MSHA approved SCBA and Full Protective Equipment.			
Unusual Fire and Explosion Hazards			
Cool containers exposed to intense heat with water to prevent container rupture. Reacts violently with water.			

Section VI: Accidental Release Measures

Steps to Be Taken in Case Material is Released or Spilled
Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Contain spill in order to prevent contamination of waterways; neutralize with lime or soda ash. Flush with water in accordance with applicable regulations to waste treatment system. Avoid runoff into storm sewers and ditches which lead to waterways. If water pollution occurs, notify the appropriate authorities.
Waste Disposal Method
Disposal must be in accordance with federal, state and local regulations.

Section VII: Handling And Storage

Precautions to Be Taken in Handling and Storing
Do not get in eyes, on skin or on clothing. Do not breathe vapors or mists. Keep container closed. Use only with adequate ventilation. Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet facilities. Remove contaminated clothing and clean before re-use. Shower after work using soap and water. Destroy contaminated leather items such as belts and shoes and other items than cannot be decontaminated. Never handle when working alone.
Other Precautions
None.

Section VIII: Exposure Controls, Personal Protection

Respiratory Protection (Specify)	NIOSH/MSHA approved full-face respirator for acid vapors. Supplied-air or SCBA if circumstances require.		
Ventilation	Local Exhaust	Sufficient to keep ambient concentrations below exposure limits	
	Mechanical (General)	General or local	
	Special	None	Other None
Protective Gloves	Chemical resistant.		
Eye Protection	Chemical splash goggles and face shield.		
Other Protective Clothing or Equipment			
Where splashing is possible, fully chemically resistant protective clothing (e.g., acid suit) and boots are required. Provide eyewash and quick-drench shower convenient to workplace.			
Work/Hygienic Practices			
Wash hands after handling and before eating, smoking, or using the toilet.			



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Section IX: Physical And Chemical Properties

Boiling Point	N/A	Specific Gravity (H₂O = 1)	1.30
Vapor Pressure (mm Hg)	N/A	Melting Point	N/A
Vapor Density (Air = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	N/A
Solubility In Water	Complete		
Appearance and Odor	State		Liquid
Colorless to slightly yellow liquid. No odor.			

Section X: Stability And Reactivity

Stability	Conditions to Avoid	Reacts exothermically with water.
Stable		
Incompatibility (Material to Avoid)	Oxidizers, metals, alkalis, cyanides	
Hazardous Decomposition of Byproducts	Reacts with metals to form hydrogen gas.	
Hazardous Polymerization	Conditions to Avoid	None.
Will not occur		

DOT Shipping Name: Hydrochloric Acid, Solution

Hazard Class: 8

UN Number: UN1789

PGII

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