



# Material Safety Data Sheet

Formic Acid 90%  
Part Number: 01A021

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

## Section I: Chemical Product & Company Identification

<b>Manufacturer</b>	Hukill Chemical Corporation 7013 Krick Road Bedford, OH 44146-4493	<b>Emergency Telephone Number</b>	(800) 962-1143	
		<b>Chemtrec's Telephone Number</b>	(800) 424-9300	
		<b>Prepared By</b>	bcj	
<b>Telephone Number</b>	(440) 232-9400	<b>Date Prepared</b>	August 12, 2002	
<b>Fax Number</b>	(440) 232-9477	<b>HMIS</b>	<b>Health</b>	3
<b>Web Site</b>	http://www.hukill.com		<b>Flammability</b>	2
<b>Email</b>	hukill@hukill.com		<b>Reactivity</b>	0
<b>Synonyms</b>				

## Section II: Composition/Information On Ingredients

Hazardous Components	Reportable Under SARA Section 313	CAS Number	OSHA Limits (ppm)			ACGIH TLV (ppm)	%
			PEL	STEL	Ceiling		
Formic acid	Yes	64-18-6	5	--	--	5	90
<i>* mg/m<sup>3</sup> instead of ppm.</i>							

## Section III: Hazardous Identification

<b>Emergency Overview:</b> Danger! Cause eye & skin burns. Causes severe respiratory irritation. Harmful if swallowed.							
<b>Route(s) of Entry</b>	<b>Inhalation?</b>	Yes	<b>Skin?</b>	Yes	<b>Ingestion?</b>	Yes	
<b>Health Hazards (Acute and Chronic)</b> 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.							
<b>Signs and Symptoms of Exposure</b> Blindness from burns on eyes. Causes severe irritation on physical contact. Burns may be permanent. Vapor and aerosol damage and scar the respiratory system when inhaled. May cause unconsciousness and death due to carbon monoxide poisoning.							
<b>Carcinogenicity</b>	<b>NTP</b>	No	<b>IARC Monographs</b>	No	<b>OSHA Regulated?</b>	No	
<b>Comments</b>	None.						

## Section IV: First Aid

<b>Eye Contact</b>	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.
<b>Skin Contact</b>	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.



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<b>Inhalation</b>	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
<b>Ingestion</b>	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.

## Section V: Fire Fighting Measures

<b>Flash Point (method used)</b>	<b>Flammable Limits</b>	<b>LEL</b>	<b>UEL</b>
138F, closed cup		5.3	16.6
<b>Extinguishing Media</b>	Water spray, foam, carbon dioxide, dry chemical.		
<b>Special Fire Fighting Procedures</b>			
Exposed firefighters should wear personnel protective equipment appropriate for protection from the surrounding fire.			
<b>Unusual Fire and Explosion Hazards</b>			
Fire will generate irritating products. Vapor is heavier than air and could collect in low or closed spaces and ignite away from the source.			

## Section VI: Accidental Release Measures

<b>Steps to Be Taken in Case Material is Released or Spilled</b>
Keep unnecessary people away; isolate hazard area and deny entry. Stop leak if you can do it without risk. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Absorb or cover with sand, earth or other noncombustible material and transfer to containers for disposal.
<b>Waste Disposal Method</b>
Acid may be neutralized with mild alkali. Dispose of contaminated materials according to federal, state, and local regulations.

## Section VII: Handling And Storage

<b>Precautions to Be Taken in Handling and Storing</b>
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.
<b>Other Precautions</b>
Make sure eye wash station s and emergency showers are available. See government regulations for safe handling (OSHA).



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## Section VIII: Exposure Controls, Personal Protection

<b>Respiratory Protection (Specify)</b>	Full-face chemical cartridge respirator to protect against organic vapors, full-face supplied air respirator, or SCBA, with pressure demand mode in emergency situations.		
<b>Ventilation</b>	<b>Local Exhaust</b>	Sufficient to keep ambient concentration below PEL.	
	<b>Mechanical (General)</b>	Explosion-proof	
	<b>Special</b>	None	<b>Other</b>
<b>Protective Gloves</b>	Chemical resistant.		
<b>Eye Protection</b>	Safety glasses (or goggles) with face shield.		
<b>Other Protective Clothing or Equipment</b>			
Where splashing is possible, fully chemically resistant protective clothing (e.g., acid suit) and boots are required.			
<b>Work/Hygienic Practices</b>			
Provide eye-wash stations and safety showers. Wash after shifts and before eating, smoking, or using the toilet. Remove contaminated clothing quickly and wash or discard.			

## Section IX: Physical And Chemical Properties

<b>Boiling Point</b>	218F	<b>Specific Gravity (H2O = 1)</b>	1.2
<b>Vapor Pressure (mm Hg)</b>	36	<b>Melting Point</b>	39F
<b>Vapor Density (Air = 1)</b>	1.6	<b>Evaporation Rate (Butyl Acetate = 1)</b>	N/A
<b>Solubility In Water</b>	100%		
<b>Appearance and Odor</b>	<b>State</b>	Liquid	
Colorless, strong irritating odor			

## Section X: Stability And Reactivity

<b>Stability</b>	<b>Conditions to Avoid</b>	None.
Stable		
<b>Incompatibility (Material to Avoid)</b>	Alkali, reducing agents, hypochlorites, rust, dehydrating agents.	
<b>Hazardous Decomposition of Byproducts</b>	Carbon Monoxide	
<b>Hazardous Polymerization</b>	<b>Conditions to Avoid</b>	None.
Will not occur		

**DOT Shipping Name:** Formic Acid Solution

**Hazard Class:** 8

**UN Number:** UN1779

**PGII**

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