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# 1. PRODUCT AND COMPANY IDENTIFICATION

Product:	Acetic Acid, Glacial
Product Number(s):	PF001, PF002
CAS#:	64-19-7
Synonyms:	Ethanoic Acid; Methanecarboxylic Acid; Acetic Acid
Manufacturer:	HWATSI CHEMICAL PRIVATE LIMITED
	Plot No. 587/586, Kandla Special Economic Zone ,
	Gandhidham, Kutch 370230
	H.O : Antop Hill Warehousing Complex,
Emergency Number:	A - 332 & 311, Wadala (E), Mumbai - 400037.
Customer Service:	TEL NO. +91 9821727511/+91 9869056097
	I www.hwatsichem.com

## 2. HAZARDS IDENTIFICATION

Emergency Overview:	DANGER! Flammable liquid and vapor. Easily ignited by heat, spark or flames. Corrosive. Causes severe burns to skin, eyes, and digestive tract. Mist or vapor extremely irritating to eyes and respiratory tract.		
	Safety Ratings:	Health: 3, Severe Flammability: 2, Moderate	Reactivity: 1, Slight Contact: 4, Extreme
OSHA Regulatory Status:	This product is considered a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.		
Potential Acute Health Effects:			
Routes of Exposure:	Inhalation, ingestion, skin contact, eye contact		
Inhalation:	Corrosive. May cause damage to mucous membranes in nose, throat, lungs and bronchial system.		
Ingestion:	Corrosive. May produce burns to the lips, oral cavity, upper airway, esophagus and digestive tract.		
Skin Contact:	Corrosive. Causes severe burns.		
Eye Contact:	Corrosive. Causes severe burns. May cause eye damage, impaired sight or blindness.		
Target Organs:	Skin, lungs, respiratory system, eyes		
Chronic Health Effects:	Corrosive. Prolonged contact causes serious tissue damage.		

### 3. COMPOSITION AND INFORMATION ON INGREDIENTS

		Chemical	Formula		% by
<u>Components</u>	<u>CAS#</u>	<u>Formula</u>	<u>Weight</u>	<u>Hazardous</u>	<u>Weight</u>
Acetic Acid	64-19-7	C <sub>2</sub> H <sub>4</sub> O <sub>2</sub>	60.05	Yes	>99.7

### 4. FIRST AID MEASURES

#### First Aid Procedures:

Inhalation:	Remove to fresh air. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Get medical attention immediately.
Ingestion:	Do not induce vomiting. If vomiting occurs, keep head low so that vomit does not enter lungs. Never give anything by mouth to an unconscious person. GET MEDICAL ATTENTION IMMEDIATELY.
Skin Contact:	Flush affected area with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention immediately.
Eye Contact:	Check for and remove contact lenses. Immediately flush eyes with gentle but large stream of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.
General Advice:	In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.
Notes to Physician:	Treat symptomatically. Keep victim under observation.

### 5. FIRE FIGHTING MEASURES

NFPA F	Ratings:	Health: 3	Flamma	ability: 2	Reactivity: 0
Flamma	able Properties:	HIGHLY FLAMMABLE! Vapors may cause a flash fire or ignite explosively. Vapors may travel considerable distance to a source of ignition and flash back. Heat may cause sealed containers to explode.			
	Flash Point:	39° C (103° F) C	losed Cu	р	
	Auto-ignition Temp:	426° C (799° F)			
	Flammable Limits in Air (% by volume):	Lower Explosion Upper Explosion		4% 19.9%	
Suitabl	e Extinguishing Media:	Water, dry powd	er, foam,	carbon dioxide	

Unsuitable Extinguishing Media: Do not use a solid (straight) water stream as it may scatter and spread fire.

Hazardous Combustion Products:	Carbon monoxide, carbon dioxide
Specific Hazards:	Can be ignited easily by heat, sparks, or flame and burns vigorously. Above flash point, vapor-air mixtures are explosive within flammable limits noted above. Sealed containers may explode when heated or involved in fire. Vapor may accumulate in container headspace resulting in flammability hazard. Material is sensitive to static discharge.
Special Protective Equipment For Firefighters:	As in any fire, wear MSHA/NIOSH approved (or equivalent) self-contained positive pressure or pressure-demand breathing apparatus and full protective gear.
Specific Methods:	Use water spray to cool unopened containers. Cool containers exposed to flames with flooding quantities of water until well after the fire is out. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. Move containers from fire area if you can do so without risk. Some of these materials, if spilled, may evaporate leaving a flammable residue. In the event of fire and/or explosion do not breathe fumes.

### 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Ventilate area of leak or spill. Isolate hazard area and keep unnecessary and unprotected personnel away from the area of the leak or spill. Keep upwind. Keep out of low areas. Wear appropriate personal protective equipment as specified in the Exposure Control and Personal Protection Section 8. Avoid contact with eyes, skin, and clothing. Pay attention to flashback. Take precautionary measures against static discharges.
Environmental Precautions: Pre	event further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground. In case of large spill, dike if needed.
Methods for Containment:	Remove all sources of ignition. Stop the flow of material, if this is without risk. Prevent entry into waterways, sewer, basements or confined areas. Dike the spilled material, where this is possible.
Methods for Cleaning Up:	Use spark-proof tools and explosion-proof equipment. All equipment used when handling the product must be grounded. Absorb spill with an inert material (e.g. vermiculite, dry sand, earth, cloth, fleece), and place in a suitable non-combustible container for reclamation or disposal. Do not use combustible materials, such as sawdust. Clean contaminated surface thoroughly. Neutralize spill area and washings with soda ash or lime. Never return spills in original containers for re-use. Clean up in accordance with all applicable regulations.

## 7. HANDLING AND STORAGE

Handling:

Do not handle or open near flame, sources of heat, or sources of ignition. Protect material from direct sunlight. Wear personal protective equipment (see section 8). Use only in well-ventilated areas. Provide sufficient air exchange and/or exhaust in work rooms. Avoid contact with skin, eyes and clothing. Do not breathe vapors or spray mist. Do not ingest. When using, do not eat, smoke, or drink. Take precautionary measures against static discharge. Keep away from incompatible materials. Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquids). Observe all warnings and precautions listed for the product Use caution when combining with water. DO NOT add water to acid. ALWAYS add acid to water while stirring to prevent release of heat, steam, and fumes.

Store in a cool, dry, ventilated area. Store away from flame, sources of ignition, heat, and incompatible materials. Store in original container. Keep containers tightly closed and upright. Keep away from food, drink and animal feedingstuffs. Keep out of the reach of children. Ground container and transfer equipment to eliminate static electric sparks. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and disposal of flammable liquids.

### 8. EXPOSURE CONTROL AND PERSONAL PROTECTION

Exposure Limits:	ACGIH:	TWA:	10 ppm
		STEL:	15 ppm
	OSHA:	PEL:	10 ppm
			25 mg/m <sup>3</sup>
Engineering Controls:			on. Ventilation rates should be matched to conditions. If
			nclosures, local exhaust ventilation, or other engineering controls s below recommended exposure limits. If exposure limits have not
			n airborne levels to an acceptable level. Explosion proof exhaust
	ventilation should		
	Vondiation onour		
Personal Protective Equipment:			
Eye/Face Protection:	Wear safety glas	ses with	side shields or goggles and a face shield.
Skin Drotostion.		h mi-	
Skin Protection:			al resistant clothing (with long sleeves) and appropriate chemical
	resistant gloves.		
Respiratory Protection: If engineering controls do not maintain airborne concentrations below recommended			
	• •		plicable) or to an acceptable level (in countries where exposure
			blished), an approved respirator must be worn. Respirator type:
			acid gas cartridge. Use a positive-pressure air-supplied respirator
	if there is any po	tential for	an uncontrolled release, exposure levels are not known, or any
	other circumstan	ices wher	e air-purifying respirators may not provide adequate protection.
General Hygiene	Avoid contact wi	th skin ev	yes and clothing. When using, do not eat, drink or smoke. Always

**Considerations:** observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Provide eyewash station and safety shower.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Appearance:	Transparent
Color:	Colorless
Odor:	Strong, vinegar-like
Molecular Formula:	$C_2H_4O_2$
Molecular Weight:	60.05
pH:	2.4 (1.0 M solution)
Specific Gravity:	1.05
Freezing/Melting Point:	16.6 °C (61.9 °F)
Boiling Point:	118.1 °C (244.6 °F)
Flash Point:	39 °C (103° F) Closed Cup
Auto Ignition Temperature:	426 °C (799° F)
Flammable Limits in Air	
(% by Volume):	

Upper:	19.9%
Lower:	4%
Solubility:	Miscible with water
Vapor Pressure:	2.09 kPa at 25°C
Vapor Density:	2.1
Percent Volatile:	100 %
Odor threshold (ppm):	0.48 ppm
Evaporation Rate:	0.97 BuAc
Partition Coefficient	
(n-octanol/water):	-0.17

# **10. STABILITY AND REACTIVITY**

Stability:	Stable under normal conditions. This substance is hygroscopic and will absorb water by contact with the moisture in the air.
Conditions to Avoid:	Heat, flames, sparks, ignition sources, incompatibles, moisture
Incompatible Materials:	Oxidizing agents, peroxides, caustics, glycol, metals
Hazardous Decomposition Products:	Carbon dioxide and carbon monoxide may form when heated to decomposition.
Possibility of Hazardous Reactions:	Can react vigorously, violently or explosively with incompatible materials listed above.
Hazardova Polymorization	Will pot occur

Hazardous Polymerization: Will not occur.

# **11. TOXICOLOGICAL INFORMATION**

Toxicological Data:	Oral Rat LD50: Skin Rabbit LD50: Inhalation Rat LC50:	3.31 g/kg 1060 mg/kg 11.4 mg/L 4H	
Acute Effects:	Strongly corrosive. May o	cause deep tissue damage.	
Local Effects:	Causes severe burns.		
Sensitization:	Not a skin sensitizer.		
Chronic Effects:	Corrosive. Prolonged or repeated skin contact causes serious tissue damage.		
Carcinogenic Effects:	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.		
Skin Corrosion/Irritation:	Corrosive to skin and eyes.		
Epidemiology:	No epidemiological data is available for this product.		
Mutagenicity:	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Neurological Effects:	No information found.		
Reproductive Effects:	Contains no ingredient lis	ted as toxic to reproduction.	

Target Organs and Symptoms: Corrosive effects.

### **12. ECOLOGICAL INFORMATION**

Ecotoxicological Data:	EC50 Water flea (Daphnia magna): LC50 Bluegill (Lepomis macrochirus):	65 mg/L 48 H 75 mg/L 96 H	
Ecotoxicity:	Harmful to aquatic life. May affect the acidity (pH) of water leading to harmful effects on aquatic organisms.		
Environmental Effects:	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.		
Persistence and Degradability:	Expected to be readily biodegradable.		
Partition Coefficient (n-octanol/water):	-0.17		

# 13. DISPOSAL INFORMATION

Disposal Instructions:	Dispose of this material and its container to hazardous or special waste collection point. Incinerate the material under controlled conditions in an approved incinerator. All wastes must be handled in accordance with local, state and federal regulations.
Contaminated Packaging:	Since emptied containers retain product residue, follow label warnings even after container is emptied. Offer rinsed packaging material to local recycling facilities.
Waste Codes:	D001: Waste Flammable material with a flash point < 140 °F

# 14. TRANSPORT INFORMATION

#### DOT:

UN Number:	UN2789
Proper Shipping Name:	Acetic Acid, Glacial
Hazard Class:	8, (3)
Packaging Group:	Ш
ERG Number:	132

### **15. REGULATORY INFORMATION**

### U.S. Federal Regulations:

OSHA:	This product is considered a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
TSCA Inventory:	Acetic Acid, Glacial

### U.S. EPCRA (SARA Title III):

Sections 311/312:	Hazard Categories Section 311 – Hazardous Immediate Hazard Delayed Hazard Fire Hazard Pressure Hazard Reactivity Hazard	List (Yes/No) Chemical Yes Yes No Yes No No	_
CERCLA:	Acetic Acid, Glacial:	5000 lbs	
International Inventories:	Country(s) or Region	Inventory Name	On Inventory (Yes/No)*
	Australia	Australian Inventory of Chemical Substances (AICS)	Yes
	Canada	Domestic Substances List (DSL)	Yes
	Canada	Non-Domestic Substances List (NDSL)	No
	China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
	Europe	European Inventory of Existing Commer Chemical Substances (EINECS)	cial Yes
	Europe	European List of Notified Chemical Substances (ELINCS)	No
	Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
	Korea	Existing Chemicals List (ECL)	Yes
	New Zealand	New Zealand Inventory	Yes
	Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

\*A "Yes" indicates that the listed component(s) of this product comply with the inventory requirements administered by the governing country(s)

# **16. OTHER INFORMATION**

Product Use:

Laboratory and/or field reagent