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THE BTTCO OVERSEAS

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from local roots to global routes

Material Safety Data Sheet
ACETIC ACID (GLACIAL)

Section 1 - Chemical Product and Company Identification

MSDS Name : ACETIC ACID (GLACIAL)
Chemical Name : Acetic Acid / Ethanoic Acid
Synonyms : Glacial Acetic Acid, Ethanoic Acid, Methanecarboxylic Acid
Chemical Formula : $C_2H_4O_2$
Molecular Weight : 60.05 g/mol
CAS No : 64-19-7
UN No : UN 2789
Hazchem Code : 2R
ERG No : 132
EAC : 2R

Company Identification : The BTTCO Overseas
6, Ashirvad Complex, Nr. Sardar Patel Seva Samaj Hall,
Navrangpura, Ahmedabad – 380009

Telephone Number : +91-94265 96891
Contact Person : Mr. Dinesh Lunkad

Section 2 Composition, Information on Ingredients

Chemical Name/ Ingredient	CAS #	EC No	EC Index-No
ACETIC ACID GLACIAL	64-19-7	200-580-7	607-002-00-6

Substance type : Mono-constituent
Mixtures : Not Applicable

Section 3 Hazards Identification

Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Flammable Liquids : Category 3
Skin Corrosion/Irritation : Category 1A
Serious Eye Damage/Eye Irritation : Category 1

GHS Label elements, including precautionary statements

Pictogram	 **GHS07 Health Hazard-Hazardous to Ozone Layer**	 **GHS05 Corrosive**

Signal Word : Danger

Hazard statements : Flammable liquid and vapor.
Causes severe skin burns and eye damage.

Precautionary statements

Prevention : Keep away from heat/sparks/open flames/hot surfaces. No smoking. Take precautionary measures against static discharge. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Wash face, hands, and any exposed skin thoroughly after handling. Keep container tightly closed.

Response : Immediately call a POISON CENTER or doctor/physician.

Inhaled : Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Skin & Body : Take off immediately all contaminated clothing. Rinse skin with water/ shower. Wash contaminated clothing before reuse.

Eyes : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Ingestion/ swallowed : Rinse mouth. DO NOT induce vomiting.

Fire : In case of fire, use CO2, dry chemical, or foam for extinction.

Storage : Store locked up. Store in a well-ventilated place. Keep container tightly closed.

Disposal : Dispose of contents/container to an approved waste disposal plant.

Section 4 First Aid Measures

General advice

Eye Contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.

Skin Contact : Wash off immediately with plenty of water for at least 15 minutes. Remove and wash contaminated clothing and gloves, including the inside, before reuse. Call a physician immediately.

Inhalation : If not breathing, give artificial respiration. Remove from exposure, lie down. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician immediately.

Ingestion/ swallowed : Do NOT induce vomiting. Clean mouth with water. Never give anything by mouth to an unconscious person. Call a physician immediately.

Most important symptoms and effects, both acute and delayed

Causes burns by all exposure routes. Ingestion causes severe swelling, severe damage to the delicate tissue, and danger of perforation. Symptoms of overexposure may be headache, dizziness, tiredness, nausea, and vomiting.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Section 5 Fire Fighting Measures

Fire

: Flash Point : 39 °C (103°F) - Closed Cup
Autoignition Temperature : 463°C (867°F)

Explosion

: Upper : 19.9 vol %
Lower : 4.0 vol %
Sensitivity to Mechanical Impact : No information available.
Sensitivity to Static Discharge : No information available.

NFPA

Health	Flammability	Instability	Physical hazards
3	2	0	N/A

Special protective equipment and precautions for firefighters

: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Fire Extinguishing Media : CO2, dry chemical, dry sand, alcohol-resistant foam.

Specific hazards arising from the substance or mixture

: Thermal decomposition can lead to release of irritating gases and vapors. The product causes burns of eyes, skin, and mucous membranes. Hazardous Combustion Products: Carbon monoxide (CO). Carbon dioxide (CO2).

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment as required. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Environmental precautions : Should not be released into the environment.

Methods and materials for containment and cleaning up : Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

Reference to other Sections : See Section 2 for full list of hazard and precaution statements.

Section 7 - Handling and Storage

Handling : Do not get in eyes, on skin, or on clothing. Wear personal protective equipment/face protection. Use only under a chemical fume hood. Do not breathe mist/vapors/spray. Do not ingest. If swallowed, seek immediate medical assistance. Handle in accordance with good industrial hygiene and safety practice.

Storage : Corrosives area. Keep away from heat, sparks, and flame. Keep containers tightly closed in a dry, cool, and well-ventilated place.

Incompatibilities : Strong oxidizing agents. Strong bases. Metals.

Section 8 - Exposure Controls, Personal Protection

Airborne Exposure Limits :

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Component	Type	Value
Acetic Acid	(Vacated) TWA	10 ppm (25 mg/m³)
Acetic Acid	TWA	10 ppm (25 mg/m³)

US. ACGIH Threshold Limit Values

Component	Type	Value
Acetic Acid	TWA	10 ppm
Acetic Acid	STEL	15 ppm

US. NIOSH Pocket Guide to Chemical Hazards

Component	Type	Value
Acetic Acid	IDLH	50 ppm
Acetic Acid	TWA	10 ppm (25 mg/m³)
Acetic Acid	STEL	15 ppm (37 mg/m³)

Biological Occupational Exposure Limits : No information available.

Engineering controls : Use only under a chemical fume hood. Use explosion-proof electrical/ventilating/lighting equipment. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.

Personal protective Equipment

Eye/Face protection : Wear appropriate protective eyeglasses or chemical safety goggles, as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN 166.

Skin protection : Wear appropriate protective gloves and clothing to prevent skin exposure.

Body Protection : Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory protection : Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirators if exposure limits are exceeded or if irritation or other symptoms are experienced. Recommended Filter type: Particulates filter conforming to EN 143. Acid gases filter. Type E. Yellow. Conforming to EN14387.

Control of environmental Exposure : No information available.

Section 9 - Physical and Chemical Properties

Physical State	: Liquid
Appearance	: Clear, Colorless Liquid
Odor	: Sharp Vinegar-like Odor
Odor Threshold	: No information available
pH	: 2.0
Melting Point / Range	: 16°C (61°F)
Boiling Point / Range	: 117.9°C (244.2°F)
Evaporation Rate	: No information available
Flammability (Solid)	: Not Applicable
Flammability or Explosive Limits	
Upper	: 19.9% (V)
Lower	: 4.0% (V)
Vapor Pressure	: 15.2 hPa (11.4 mmHg) @ 20°C
Vapor Density (Air = 1)	: 2.1
Density	: 1.049 g/mL @ 25°C
Solubility	: Completely Miscible with Water
Partition Coefficient (n-Octanol/Water)	: Log Pow = -0.17
Autoignition Temperature	: 463°C (867°F)
Decomposition Temperature	: No information available
Viscosity	: No information available
Molecular Formula	: $C_2H_4O_2$
Molecular Weight	: 60.05 g/mol
VOC Content (%)	: No information available
Oxidizing Properties	: No information available

Section 10 - Stability and Reactivity

Stability : Stable under normal conditions.

Conditions to avoid : Incompatible products. Excess heat. Keep away from open flames, hot surfaces, and sources of ignition.

Incompatibility with various substances : Strong oxidizing agents, Strong bases, Metals.

Reactivity : No information available.

Possibility of hazardous reactions : None under normal processing.

Hazardous decomposition Products : Carbon monoxide (CO), Carbon dioxide (CO2).

Section 11 - Toxicological Information

Product Information, Component Information

Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Acetic acid	3310 mg/kg (Rat)	1,112 mg/kg (Rabbit)	> 40 mg/L (Rat) 4 h

Skin corrosion/irritation : Causes severe burns by all exposure routes.

Serious eye damage/ Eye irritation : Causes severe burns by all exposure routes.

Respiratory or skin sensitization : Potential to cause skin sensitization through direct contact.

Germ cell mutagenicity : Not mutagenic in AMES Test.

Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Acetic acid	64-19-7	Not listed	Not listed	Not listed	Not listed	Not listed

Specific target organ toxicity – single exposure : None known.

Specific target organ toxicity – repeated exposure : None known.

Reproductive toxicity : No information available.

Chronic effects : Ingestion causes severe swelling, severe damage to the delicate tissue, and danger of perforation. Symptoms of overexposure may be headache, dizziness, tiredness, nausea, and vomiting.

Section 12 - Ecological Information

Toxicity : Do not empty into drains.

Product		Species	Test Results
Acetic acid	LC50	Pimephales promelas	88 mg/L/96h
	LC50	Lepomis macrochirus	75 mg/L/96h
	EC50	Photobacterium phosphoreum	8.8 mg/L/5 min
	EC50	Water Flea	95 mg/L/24h

Persistence and Degradability : Miscible with water. Persistence is unlikely based on information available.

Bio accumulative Potential : No information available.

Mobility in soil : Will likely be mobile in the environment due to its water solubility.

Results of PBT and vPvB Assessment : No information available.

Endocrine disrupting Properties : No information available.

Other adverse effects : Biochemical Oxygen Demanded (BOD): 880 mg/g.

Section 13 - Disposal Considerations

Waste Disposal : Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Section 14 - Transport Information

DOT/IATA/IMDG/IMO

Proper Shipping Name : ACETIC ACID, GLACIAL
UN No : UN 2789
CAS No : 64-19-7
EMS No : F-E, S-C
ERG No : 132
EAC : 2R
IMDG-Packaging Group : II
Marine Pollutant : No
Class : 8 (Corrosive)
Packing Group : II
Subsidiary Risks : Class 3 (Flammable Liquid)
Label Required : Corrosive (Class 8), Flammable Liquid (Class 3)
Hazchem Code : 2R
Tunnel Restriction Code : (E) (where applicable)
Transport Category : 2

Section 15 -Regulatory Information

US Federal Regulations : This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) : Not applicable.

CERCLA Hazardous Substance List (40 CFR 302.4)

Substance	CAS No.	Reportable Quantity (RQ)
Acetic Acid	64-19-7	5000 lb

SARA 304 Emergency Release Notification : Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053): Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)
SARA 302 Extremely Hazardous Substance : Not Listed.

SARA 311/312 Hazard Classification : Acute Health Hazard
Chronic Health Hazard
Fire Hazard

SARA 313 (TRI Reporting) : Not regulated.

Other Federal Regulations
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List : Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) : Not regulated.

Clean Water Act (CWA) – Hazardous Substances

Substance	CAS No.	Reportable Quantity (RQ)
Acetic Acid	64-19-7	5000 lb

FEMA Priority Substances – Respiratory Health and Safety in the Flavor Manufacturing Workplace

Substance	CAS No.
Acetic Acid	64-19-7

US State Regulations
US Massachusetts RTK – Substance List

Substance	CAS No.
Acetic Acid	64-19-7

US New Jersey Worker and Community Right-to-Know Act

Substance	CAS No.
Acetic Acid	64-19-7

US Pennsylvania Worker and Community Right-to-Know Law

Substance	CAS No.
Acetic Acid	64-19-7

California Proposition 65 : Not Listed.

Canada & Australia Regulatory Information

Canada (WHMIS)
WHMIS Classification : B3, E

WHMIS Statement : This MSDS has been prepared in accordance with the hazard criteria of the Controlled Products Regulations (CPR). The MSDS contains all information required by the CPR.

Australia

Parameter	Details
Australian Hazchem Code	2R
Poison Schedule	Not Scheduled
Dangerous Goods Classification	Class 8 (Corrosive) Subsidiary Risk 3
SUSMP Classification	Not Scheduled

Regulatory Notes
WHMIS B3 : Combustible Liquid.
WHMIS E : Corrosive Material.
Hazchem Code 2R : Indicates use of water fog and full protective equipment during emergency response.
SARA 311/312 : Acute Health Hazard, Chronic Health Hazard and Fire Hazard.

Section 16 - Other Information

NFPA Ratings : Health : 3
Flammability : 2
Reactivity : 0
4 = Extreme, 3 = High, 2 = Moderate, 1 = Slight, 0 = Insignificant

Label Hazard Warning : DANGER! CORROSIVE AND FLAMMABLE LIQUID. CAUSES SEVERE SKIN BURNS AND SERIOUS EYE DAMAGE. HARMFUL IF INHALED. MAY CAUSE RESPIRATORY IRRITATION. COMBUSTIBLE LIQUID AND VAPOR. KEEP AWAY FROM HEAT, SPARKS, OPEN FLAMES AND HOT SURFACES.

Label Precautions : Do not get in eyes, on skin, or on clothing. Do not breathe vapor or mist. Use only with adequate ventilation. Keep container tightly closed when not in use. Keep away from heat, sparks, flames and ignition sources. Wear appropriate

protective gloves, protective clothing and eye/face protection. Wash thoroughly after handling.

Label First Aid : If Swallowed: Rinse mouth. Do NOT induce vomiting. Immediately call a physician or poison center.

If Inhaled: Remove person to fresh air and keep comfortable for breathing. Obtain medical attention if symptoms persist.

If on Skin (or Hair): Immediately remove contaminated clothing. Flush skin with plenty of water for at least 15 minutes. Seek medical attention.

If in Eyes: Immediately rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing and obtain immediate medical attention.

In all cases, seek medical attention immediately for significant exposure.

Product Use : Industrial Chemical, Chemical Intermediate, Textile Processing, Pharmaceutical Manufacturing, Dyes & Pigments, Adhesives, Water Treatment Chemicals and Laboratory Reagent.

Revision Information **:** MSDS prepared in accordance with GHS, OSHA Hazard Communication Standard (29 CFR 1910.1200), WHMIS and applicable international transportation regulations.

Disclaimer:
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