Basekim
Chemical Production Co.Ltd

SAFETY DATA SHEET

ACETIC ACID

OSHA HCS 16-Section SDS Summary | Industrial Manufacturing Use | Professional Use Only

SECTION 1: IDENTIFICATION

Product identifier	Acetic Acid
Synonyms	Ethanoic acid; glacial acetic acid
CAS Number	64-19-7
Chemical formula	CH3COOH / C2H4O2
Recommended use	Industrial manufacturing
Restrictions on use	For professional use only
Manufacturer / Distributor	BASEKIM KIMYASAL URUNLER IC VE DIS TICARET LIMITED SIRKETI
Address	ILKBAHAR MAH. FAHREDDIN PASA SK. NO: 6 CANKAYA/ANKARA
Phone	+903125147055
Emergency phone number	+903125147055

SECTION 2: HAZARD(S) IDENTIFICATION

SIGNAL WORD: DANGER

- **H226 Flammable liquid and vapor.**
- **H314 Causes severe skin burns and eye damage.**
- **H335 May cause respiratory irritation.**

GHS pictograms: GHS02 Flame | GHS05 Corrosion | GHS07 Exclamation Mark

Classification: Flammable Liquid Category 3; Skin Corrosion Category 1A; Specific Target Organ Toxicity - Single Exposure Category 3 (respiratory tract irritation).

Precautionary statements: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe vapors or mist. Wear protective gloves, protective clothing, eye protection and face protection. Use only outdoors or in a well-ventilated area.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	Acetic acid
CAS No.	64-19-7
EC No.	200-580-7
Concentration	>99% typical for glacial grade unless otherwise specified
Unique identifiers	Molecular weight: 60.05 g/mol

SECTION 4: FIRST-AID MEASURES

- Eye contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing and get immediate medical attention.
- Skin contact: Remove contaminated clothing immediately. Rinse skin with water or shower for at least 15 minutes. Get medical attention for burns or irritation.
- Inhalation: Move person to fresh air and keep comfortable for breathing. If symptoms persist, call a physician.
- Ingestion: Rinse mouth. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get immediate medical attention.
- Important symptoms/effects: Severe burns, eye damage, respiratory irritation, coughing, sore throat, abdominal pain, delayed pulmonary effects after heavy exposure.

SECTION 5: FIRE-FIGHTING MEASURES

- Suitable extinguishing media: Alcohol-resistant foam, dry chemical powder, carbon dioxide or water spray.
- Unsuitable media: Do not use a solid water jet directly on burning liquid.
- Specific hazards: Flammable liquid and vapor; vapors may form explosive mixtures with air. Fire may produce carbon monoxide and carbon dioxide.
- Protective equipment: Firefighters should wear self-contained breathing apparatus and full protective gear. Cool exposed containers with water spray.

SECTION 6: ACCIDENTAL RELEASE MEASURES

- Evacuate unnecessary personnel and ventilate the area. Eliminate ignition sources.
- Wear chemical-resistant gloves, goggles or face shield, protective clothing and suitable respiratory protection where ventilation is inadequate.
- Contain spill with inert absorbent material such as sand, earth or vermiculite. Prevent entry into drains, waterways and soil.
- Neutralize cautiously if trained and permitted by procedure. Collect in compatible labeled containers for disposal.

SECTION 7: HANDLING AND STORAGE

- Handle in a well-ventilated area. Avoid breathing vapors or mist and avoid contact with skin, eyes and clothing.
- Ground and bond containers during transfer. Use explosion-proof electrical and ventilation equipment where required.
- Store tightly closed in a cool, dry, well-ventilated corrosives/flammables storage area.
- Keep away from heat, sparks, open flame, strong oxidizers, strong bases, metals, reducing agents and incompatible materials.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA PEL	10 ppm / 25 mg/m3, 8-hour TWA

ACGIH TLV	10 ppm TWA; 15 ppm STEL
NIOSH REL	10 ppm / 25 mg/m3 TWA; 15 ppm / 37 mg/m3 STEL
Engineering controls	Use local exhaust ventilation, closed transfer systems and emergency eyewash/safety shower stations.
Eye/face protection	Chemical splash goggles plus face shield for transfer or splash risk.
Skin protection	Acid-resistant gloves such as butyl rubber, neoprene or nitrile; chemical-resistant clothing and apron.
Respiratory protection	Use an approved respirator for organic acid vapor/mist when exposure limits may be exceeded.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colorless liquid; may crystallize below melting/freezing point
Odor	Pungent vinegar-like odor
Odor threshold	Approximately 0.2-1 ppm reported
pH	Strongly acidic; approx. 2.4 for dilute solution
Melting/freezing point	16.6 °C / 62 °F
Boiling point	118 °C / 244 °F
Flash point	39-40 °C / 102-104 °F, closed cup
Evaporation rate	Not established
Flammability	Flammable liquid and vapor
Explosive limits	LEL approx. 4%; UEL approx. 19.9%
Vapor pressure	Approx. 11 mmHg at 20 °C
Vapor density	2.07 (air = 1)
Relative density	Approx. 1.05 at 20 °C
Solubility	Miscible with water
Auto-ignition temperature	Approx. 463 °C
Viscosity	Approx. 1.2 mPa·s at 20 °C

SECTION 10: STABILITY AND REACTIVITY

- Reactivity: Reacts with strong bases and strong oxidizing agents; corrosive to many metals.
- Chemical stability: Stable under recommended storage and handling conditions.
- Hazardous reactions: Heat generation during neutralization; flammable vapor formation at elevated temperatures.
- Conditions to avoid: Heat, flames, sparks, incompatible materials and poor ventilation.
- Incompatible materials: Strong oxidizers, strong bases, alkalis, metals, reducing agents and nitric acid.
- Hazardous decomposition products: Carbon monoxide, carbon dioxide and irritating vapors during fire or thermal decomposition.

SECTION 11: TOXICOLOGICAL INFORMATION

- Routes of exposure: Inhalation, skin contact, eye contact and ingestion.

- Acute effects: Corrosive burns to skin and eyes; respiratory tract irritation; harmful effects possible if swallowed or inhaled at high vapor concentration.
- Delayed/chronic effects: Repeated exposure may cause dermatitis, dental erosion and chronic respiratory irritation.
- Numerical toxicity: Oral LD50 rat approx. 3310 mg/kg; dermal LD50 rabbit approx. 1060 mg/kg; inhalation LC50 values vary by test conditions.
- Carcinogenicity: Not listed as a carcinogen by OSHA, NTP or IARC under normal regulatory listings.

SECTION 12: ECOLOGICAL INFORMATION

- Acetic acid is readily biodegradable and miscible in water.
- Large releases may lower pH in water and soil, causing local harm to aquatic organisms.
- Avoid uncontrolled discharge to drains, surface waters and groundwater.
- Bioaccumulation potential is expected to be low.

SECTION 13: DISPOSAL CONSIDERATIONS

- Dispose of contents and containers according to local, regional, national and international regulations.
- Waste may be hazardous due to corrosivity and flammability. Do not discharge concentrated product to drains.
- Use licensed waste disposal contractors. Empty containers may retain hazardous residues and vapors.

SECTION 14: TRANSPORT INFORMATION

UN number	UN 2789
Proper shipping name	Acetic acid, glacial or acetic acid solution, more than 80% acid, by mass
Transport hazard class	Class 8 (corrosive); subsidiary risk Class 3 (flammable liquid)
Packing group	II
Marine pollutant	Not typically classified as marine pollutant
Special precautions	Keep away from heat and ignition sources. Transport in approved, corrosion-resistant containers.

SECTION 15: REGULATORY INFORMATION

- OSHA Hazard Communication Standard: Classified as hazardous.
- SARA 302/304: Not typically listed as an extremely hazardous substance.
- SARA 311/312 hazard categories: Flammable, corrosive, acute health hazard.
- TSCA: Acetic acid is listed on the TSCA inventory.
- This SDS summary is prepared for industrial/professional handling and does not replace the supplier-specific regulatory SDS for a particular grade or jurisdiction.

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SECTION 16: OTHER INFORMATION

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