

Chemical Safety Data Sheet

SECTION 1 IDENTIFICATION

Product Name: Glacial Acetic acid

Other Name: Acetic acid glacial

Recommended use of the chemical and restrictions on use: Mainly for the synthesis of vinyl acetate, cellulose acetate, acetic anhydride, acetate and metal acetate and halogenated acetic acid. Also be important raw materials of pharmaceuticals, dyes, pesticides and other organic synthesis. In addition, also have a wide range of uses in photographic chemicals manufacturing, cellulose acetate, textile dyes and rubber industries .

Supplier's details: /SHANGHAI ORIENT CHEMICAL CO.,LTD

Emergency phone number: /0086-21-59969669

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

Flammable Liquids Category 3. Acute Toxicity - Dermal Category 4. Acute Toxicity - Inhalation Category 4. Eye Damage/Irritation Category 2A. Toxic to Reproduction Category 1B.

Flammable Liquids Category 3, Corrosive to Metals Category 1, Acute Toxicity - Oral Category 4, Acute Toxicity - Dermal Category 4, Acute Toxicity - Inhalation Category 4, Skin Corrosion / Irritation Category 1B, Severe Eye Damage / Eye Irritation Category 1, Specific Target Organ Toxicity - Repeated Exposure Category 2, Hazardous to Aquatic Environment (Acute) Category 3.

GHS Label elements, including precautionary statements



Signal word: Danger.

Hazard statement(s): Flammable liquid and vapor. May be corrosive to metals. Harmful in swallowing, contact with skin or if inhaled. Causes severe skin burns and eye damage. Long-term or repeated exposure May cause damage to organs. Harmful to aquatic organisms if long-term or repeated contact.

Precautionary statement(s):

Prevention: Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep container tightly closed. Keep only in containers. Keep cool. Ground/Bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe dust/fume/gas/mist/ vapors/spray. Wash thoroughly after handling. When using this product do not eat, drink and smoke. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves / protective clothing / wear protective goggles / wear protective masks.

Response: IF SWALLOWED: Rinse mouth. Don't induce vomiting. If you feel unwell, call a POISON CENTER / doctor. IF ON SKIN (or hair): Take off immediately all contaminated clothing and wash it before reuse. Rinse skin with water / shower. Immediately call a POISON CENTER / doctor. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If you feel unwell, call a

POISON CENTER / doctor. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER / doctor. Specific treatment (see supplemental first aid instructions on this label). Absorb spillage to prevent material damage. In case of fire: Use alcohol stable foam, dry chemical powder, carbon dioxide, water spray or fog to extinguish.

Storage: Store in well-ventilated place. Keep cool. Store in corrosive resistant containers or containers with a resistant inner liner. Store locked up.

Disposal: Dispose of contents/container to relevant regulations.

Other hazards which do not result in classification: /

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration%
Glacial Acetic acid	64-19-7	99.8

SECTION 4 FIRST AID MEASURES

Description of necessary first aid measures

If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact: Take off immediately all contaminated clothing. Wash off with soap and plenty of water. Consult a physician. Wash all contaminated clothing before reuse.

In case of eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed: Do NOT induce vomiting.. Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delayed: /

Indication of immediate medical attention and special treatment needed: /

SECTION 5 FIREFIGHTING MEASURES

Suitable extinguishing media: Use alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the chemical: Flammable, its vapor and air can form explosive mixtures. Its vapor is heavier than air, will spread to considerable local in lower department. Met the fire, it will fire back. In case of high temperature, containers will become bigger being pressed, may be broken or exploded.

Special protective actions for fire-fighters: Firefighters must wear gas masks, firefighting suits, fire in the wind. Case of safety, turn off the power. Try to move containers from fire area to open area, fire water to cool containers. If the containers change color in fire or generate sound from the safety relief devices, must evacuate immediately.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Remove all ignition source. Immediately clean up all the leakage. Avoid breathing vapors, avoid skin and eye contact with the material. Wear protective clothing, gloves, safety goggles and gas masks.

Methods and materials for containment and cleaning up: Leave quickly leak contaminated area personnel to safe areas, and in isolation, restricted access. Recommended emergency personnel wearing self-priming filter type gas mask, wearing anti-static overalls. Cut off the leak source as possible. Small leak: Use sand or other incombustible material to adsorb. Can also use a lot of water to rinse, wash water diluted into the wastewater system. Large leak: constructing dike to dig a hole or asylum. With foam cover,

reduce the steam disasters. Use car explosion-proof pump to worse or dedicated container, recycling or shipped to the disposal of waste places.

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling: Sealing operation, full ventilation. The operator must go through specialized training, strict adherence to rules. Proposed operators wear self-absorption filter respirators, wearing chemical protective safety glasses, wear anti-static overalls, wearing rubber gloves. Keep away from fire, heat, forbidden to smoke in the workplace. Use explosion-proof ventilation systems and equipment. Prevent the generation of static electricity. All piping and equipment should be grounded. When handling, use non-sparking tools. Avoid contact with incompatible material. Corresponding with the variety and quantity of fire equipment and spill response equipment.

Conditions for safe storage, including any incompatibilities: Store in a cool, ventilated warehouse. Away from fire and heat. Prevent direct sunlight. Keep container tightly closed. stored separately with oxidants and alkali, remember mixing reservoir. Explosion-proof lighting, ventilation facilities. Prohibit the use of mechanical equipment and tools easily generating spark. Storage areas should be equipped with emergency equipment leakage and suitable housing materials.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters:

Source	Material	OELs(mg/m ³)			Remark
		MAC	PC-TWA	PC-STEL	
China Occupational Hazards Occupational Exposure Limits	Acetic Acid	—	10	20	—

Appropriate engineering controls: For flammable liquids and flammable gases, local exhaust ventilation or a process enclosure ventilation system may be required. Ventilation equipment should be explosion-resistant.

Personal protective equipment

Eye/face protection: Wear protective chemical safety goggles and protective masks.

Hand protection: Wear rubber gloves.

Physical protection: Wear safety shoes or safety boots (such as rubber material), impervious clothing, flame retardant antistatic protective clothing.

Respiratory protection: possible exposure to vapor, recommended to wear self-absorption filter respirators. Emergency rescue or evacuation, recommended to wear air respirators.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	colorless clear liquid
Odor	pungent dor
Odor Threshold	/
pH	/
Melting point/freezing point	16.6°C
Initial boiling point and boiling range	118°C
Flash point	> 23 ° C (closed cup)
Evaporation rate	/
Flammability (solid, gas)	Flammable
Upper/lower flammability or explosive limits	/
Vapor pressure	/

Vapor density	/
Relative density	1.05
Water solubility	Dissolved in water, ether, glycerol, soluble in carbon disulfide Log Pow:- 0.87
Partition coefficient: noctanol/water	/
Autoignition temperature	/
Decomposition temperature	/
Viscosity	/

SECTION 10 STABILITY AND REACTIVITY

Reactivity: /

Chemical stability: Stable under normal temperature and pressure

Possibility of hazardous reactions: /

Conditions to avoid: Fire, heat.

Incompatible materials: oxidizing agents, soluble carbonates and phosphates, hydroxides, metal, peroxide, permanganate, acids, amines, alcohols, nitric acid.

Hazardous decomposition products: /

SECTION 11 TOXICOLOGICAL INFORMATION

Acute health effects:/

Chronic health effects: /

Numerical measures of toxicity(such as acute toxicity estimates): LD₅₀: 600 mg/kg (Oral, rabbit); LC₅₀: 1060mg/kg(Dermal, rabbit); LC₅₀: 11.4mg/L/4H(Inhalation, Rat).

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity: LC₅₀(96 hours): blue gill sunfish 75mg / L.

Persistence and degradability: /

Bioaccumulative potential: /

Mobility in soil: /

Other adverse effects: /

SECTION 13 DISPOSAL CONSIDERATIONS

Disposal methods: As far as possible to recycle this material. Disposal in accordance with the local environmental protection department regulations. Consult a professional waste disposal company proposal. Decontaminated empty containers.

SECTION 14 TRANSPORT INFORMATION

UN number: 2789

UN proper shipping name: Glacial Acetic Acid

Transport hazard class(es): 8/3.

Packaging group: II.

Marine pollutants (Yes / No): No.

Special precautions for user: /

SECTION 15 REGULATORY INFORMATION

Regulations:

All users of dangerous chemicals must comply with the appropriate laws and regulations, regulatory standards of safety in production, use, storage, transport, handling, etc. requirements.

"Dangerous chemical safety regulations" (2011 State Council Decree No. 591)

"Workplace safe use of chemicals" ([1996] labor department No. 423)

"Chemical classification and hazard communication - General" (GB13690-2009)

"Of dangerous goods" (GB12268-2012)

"Dangerous Goods Classification and code" (GB6944-2012)

"Dangerous chemicals transport packaging category principle" (GB / T15098-2008)

"Workplace Hazardous Occupational Exposure Limits - Part 1: Chemical hazardous agents" (GBZ 2.1-2007)

"MSDS content and order" (GB / T 16483-2008)

"Classification and labeling of chemicals - Part 7: flammable liquids" (GB30000.17-2013)

"Chemical classification and labeling specifications Part 17: metallic corrosion" (GB30000.7-2013)

"Chemical classification and labeling specifications Part 18: Flammable acute toxicity"
(GB30000.18-2013)

"Chemical classification and labeling specifications - Part 19: Skin corrosion / irritation"
(GB30000.19-2013)

"Section 20 of chemicals classification and labeling specifications: Serious eye damage / eye irritation" (GB30000.20-2013)

"Chemical classification and labeling specifications - Part 26: Specific target organ toxicity - repeated exposure" (GB30000.26-2013)

"Chemical classification and labeling specifications 28 parts: water harmful to the environment"
(GB30000.28-2013)

SECTION 16 OTHER INFORMATION

Disclaimer: This Material Safety Data Sheet in accordance with the United Nations' Globally Harmonized System of Classification and Labeling of Chemicals (GHS) "(5th Revised Edition) requirements and GB / T 16483-2008 and GB / T 17519-2013 written in this SDS according to my knowledge center has been prepared, although described certain hazards, but we can not guarantee that these are the only hazards. Users need to develop their own safety rules and comply with existing legislation and regulations refer to the above data in accordance with the actual situation. The data in this safety data sheet for safety and do not represent product specifications.