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SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Product: Acetic Acid Glacial	**Revision date:** 2026-10-29	**Version:** 1.0	**Brand:** Richest

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product name	Acetic Acid Glacial
Synonyms	Glacial acetic acid; Ethanoic acid; GAA
CAS No.	64-19-7
EC No.	200-580-7
Molecular formula	C2H4O2
Molecular weight	60.05 g/mol
Relevant identified uses	Raw material for vinyl acetate, acetic anhydride, acetate esters and cellulose acetate; intermediate for pharmaceuticals, dyes and pesticides; textile dyeing and rubber industry; laboratory chemicals
Uses advised against	None
Company	Richest Group Ltd.
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SECTION 2: Hazards identification

GHS Classification	Flammable liquids Category 3 Skin corrosion Category 1A Serious eye damage Category 1
Pictogram(s)	GHS02 (Flame), GHS05 (Corrosion)
Signal word	Danger
Hazard statement(s)	H226 Flammable liquid and vapour.

Precautionary statement(s)	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P280 Wear protective gloves/protective clothing/eye protection/face protection. P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER/doctor.
Other hazards	None known.

SECTION 3: Composition/information on ingredients

Component	Acetic acid
CAS No.	64-19-7
EC No.	200-580-7
Classification	Flam. Liq. 3; Skin Corr. 1A; Eye Dam. 1; H226, H314, H318
Concentration (%)	≤100 %

SECTION 4: 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 contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.
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. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Most important symptoms and effects	Causes severe skin burns and eye damage. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes and skin; cough, shortness of breath, headache, nausea, vomiting.
Indication of any immediate medical attention	Consult a physician. Show this safety data sheet to the doctor in attendance.

SECTION 5: Firefighting measures

Suitable extinguishing media	Dry powder, dry sand, alcohol-resistant foam, carbon dioxide
Unsuitable extinguishing media	Do NOT use water jet.
Special hazards arising from the	Carbon oxides. Flammable; vapours may form explosive mixtures with air.

chemical	Vapours are heavier than air and may spread along floors; flash back possible.
Advice for firefighters	Wear self-contained breathing apparatus for firefighting if necessary. Use water spray to cool unopened containers.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures	Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Methods and materials for containment and cleaning up	Contain spillage, and then collect with non-combustible absorbent material (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations.

SECTION 7: Handling and storage

Precautions for safe handling	Avoid inhalation of vapour or mist. Avoid contact with skin and eyes. Keep away from sources of ignition - No smoking. Take measures to prevent the buildup of electrostatic charge.
Conditions for safe storage, including any incompatibilities	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in a cool place.

SECTION 8: Exposure controls/personal protection

Occupational exposure limit values	ACGIH TLV: TWA 10 ppm, STEL 15 ppm; OSHA PEL: TWA 10 ppm (25 mg/m3); China PC-TWA: 10 mg/m3, PC-STEL: 20 mg/m3
Biological limit values	No biological exposure index (BEI) established.
Appropriate engineering controls	Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. Wash hands before breaks and at the end of workday.
Eye/face protection	Tightly fitting safety goggles. Face shield (8-inch minimum). Use equipment tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).
Skin protection	Handle with gloves (EN 374). Full contact: butyl rubber, minimum layer thickness 0.3 mm, breakthrough time 480 min. Splash contact: natural latex/chloroprene, minimum layer thickness 0.6 mm, breakthrough time 32
Body protection	Complete suit protecting against chemicals; flame retardant antistatic

	protective clothing.
Respiratory protection	Where risk assessment shows air-purifying respirators are appropriate, use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.
Thermal hazards	No specific thermal hazards under normal conditions of use.

SECTION 9: Physical and chemical properties

Physical state	Liquid
Colour	Colourless
Odour	Pungent, vinegar-like odour
Melting point / freezing point	16.2 °C (lit.)
Boiling point or initial boiling point and boiling range	117 - 118 °C (lit.)
Flammability	Flammable liquid and vapour
Lower and upper explosion limit / flammability limit	Lower explosion limit: 4.0 % (V); Upper explosion limit: 19.9 % (V)
Flash point	39 °C - closed cup
Auto-ignition temperature	485 °C
Decomposition temperature	No data available
pH	2.4 at 60.05 g/l (water)
Kinematic viscosity	ca. 1.17 mm2/s at 20 °C
Solubility	Completely miscible with water
Partition coefficient n-octanol/water	log Pow: -0.17
Vapour pressure	15.2 hPa at 20 °C; 73.3 hPa at 50 °C
Density and/or relative density	1.049 g/ml at 25 °C
Relative vapour density	2.07 (Air = 1.0)
Particle characteristics	Not applicable (liquid)

SECTION 10: Stability and reactivity

Reactivity	Weak acid; reacts exothermically with bases; dissolution in water releases

	heat; attacks some forms of plastic, rubber and coatings
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Reacts violently with strong oxidants (fire/explosion hazard); reacts violently with strong bases, strong acids and many other compounds; can explode with nitric acid if not kept cold; incompatible with carbonates, hydroxides, many oxides and phosphates
Conditions to avoid	Heat, flames and sparks.
Incompatible materials	Oxidizing agents, soluble carbonates and phosphates, hydroxides, metals, peroxides, permanganates (e.g. potassium permanganate), amines, alcohols, nitric acid
Hazardous decomposition products	Carbon oxides (formed under fire conditions)

SECTION 11: Toxicological information

Acute toxicity - Oral / Inhalation / Dermal	LD50 Oral - Rat - 3,310 mg/kg (RTECS) LC50 Inhalation - Mouse - 4 h - 2.819 mg/l (RTECS) LD50 Dermal - Rabbit - 1,060 mg/kg (RTECS)
Skin corrosion/irritation	Skin - Rabbit: Causes burns - 4 h (OECD 404).
Serious eye damage/irritation	Eyes - Rabbit: Causes burns - 4 h (OECD 405). Causes serious eye damage.
Respiratory or skin sensitization	Not classified (based on available data)
Germ cell mutagenicity	Ames test (Salmonella typhimurium): negative. Chromosome aberration test (Chinese hamster ovary cells): negative. Micronucleus test (Rat, bone marrow): negative.
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	Not classified (based on available data)
STOT - single exposure	Not classified (based on available data)
STOT - repeated exposure	Not classified (based on available data)
Aspiration hazard	Not classified (based on available data)

SECTION 12: Ecological information

Toxicity to fish / daphnia / algae	Toxicity to fish: LC50 - Oncorhynchus mykiss (rainbow trout) - > 1,000 mg/l - 96 h (OECD 203) Toxicity to daphnia: EC50 - Daphnia magna (Water flea) - > 1,000 mg/l - 48 h (OECD 202) Toxicity to algae: EC50 - Skeletonema costatum - > 1,000 mg/l - 72 h (ISO 10253)

Persistence and degradability	Readily biodegradable (99%, OECD 301D); readily eliminated from water
Bioaccumulative potential	No bioaccumulation potential (log Pow = -0.17).
Mobility in soil	Highly mobile in soil (completely miscible with water).
Other adverse effects	None known

SECTION 13: Disposal considerations

Product disposal methods	Offer surplus and non-recyclable solutions to a licensed disposal company. Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. Leave chemicals in original containers. No mixing with other waste.
Contaminated packaging	Dispose of as unused product.

SECTION 14: Transport information

UN Number (ADR/RID, IMDG, IATA)	2789
UN Proper Shipping Name	GLACIAL ACETIC ACID
Transport hazard class(es)	8 (3)
Packing group	II
Environmental hazards (Marine pollutant)	No
Special precautions for user	Keep containers upright, closed and secured during transport.

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product	EINECS: Listed (200-580-7) TSCA: Listed IECSC: Listed China Catalog of Hazardous Chemicals 2015: Listed

SECTION 16: Other information

Full text of H-Statements	H226 Flammable liquid and vapour. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H318 Causes serious eye damage. H319 Causes serious eye irritation.
Revision date	2026-10-29
Version	1.0

Abbreviations and acronyms: CAS: Chemical Abstracts Service; EC: European Commission; EINECS: European Inventory of Existing Commercial Chemical Substances; ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road; RID: Regulation concerning the International Carriage of Dangerous Goods by Rail; IMDG: International Maritime Dangerous Goods; IATA: International Air Transport Association; TWA: Time Weighted Average; STEL: Short Term Exposure Limit; LD50: Lethal Dose 50%; LC50: Lethal Concentration 50%; EC50: Effective Concentration 50%; PBT: Persistent, Bioaccumulative and Toxic; vPvB: very Persistent and very Bioaccumulative; SDS: Safety Data Sheet.

References: ECHA - European Chemicals Agency, https://echa.europa.eu/; IPCS - International Chemical Safety Cards (ICSC), http://www.ilo.org/; HSDB - Hazardous Substances Data Bank; eChemPortal - OECD Global Portal to Information on Chemical Substances; ERG - Emergency Response Guidebook by U.S. DOT.

Disclaimer: The information in this SDS is only applicable to the specified product and is provided in good faith. It is based on the knowledge available to Richest Group Ltd. at the date of issue and is intended to describe the product for the purposes of health, safety and environmental requirements only. It does not constitute any guarantee of the properties of the product. Richest Group Ltd. shall not be held liable for any damage resulting from handling or from contact with the above product.