

MSDS**Material Safety Data Sheet**

1403 Herkimer Street
Joliet, IL 60432-1059
(877) EKI-CHEM
(815) 723-4000
www.eki-chem.com

24 HOUR EMERGENCY
TELEPHONE NUMBER
CALL CHEMTREC
1-800-424-9300

Acetic Acid, Glacial**SECTION 1 PRODUCT IDENTIFICATION**

NAME: Acetic Acid, Glacial
EKI ORDER NUMBER: 1101, 1105
SYNONYMS: N/I
CAS NO: 64-19-7
FORMULA: CH₃COOH
REVISION DATE: 2 March 2004

****LABEL HAZARD STATEMENT AND PRECAUTIONS****

DANGER! CORROSIVE LIQUID AND MIST. CAUSES BURNS. HARMFUL IF SWALLOWED OR INHALED. FLAMMABLE LIQUID AND VAPOR. Do not get on skin, in eyes, on clothing. Do not breathe vapor or mist. Keep container tightly closed. Use only with adequate ventilation. Keep away from heat, sparks and flame. Wash thoroughly after handling.

SECTION 2 HAZARDOUS INGREDIENTS / EXPOSURE LIMITS

INGREDIENT/CAS NO	OSHA PEL	ACGIH TLV
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Acetic Acid/64-19-7	10 ppm TWA	10 ppm TWA 15 ppm STEL

SECTION 3 PHYSICAL / CHEMICAL CHARACTERISTICS

SOLUBILITY IN WATER: Miscible	BOILING POINT (C): 118
VAPOR PRESSURE (mm Hg): 11	VAPOR DENSITY: 2.1
SPECIFIC GRAVITY: 1.05	MELTING POINT (C): 16.6
EVAPORATION RATE: 0.97	
APPEARANCE AND ODOR: Clear, colorless liquid. Strong vinegar odor.	

SECTION 4 FIRE / EXPLOSION HAZARD DATA

FLASH POINT (C): 40
AUTOIGNITION TEMPERATURE (C): 427
FLAMMABLE LIMITS (%) UEL: 16 LEL: 4
EXTINGUISHING MEDIA: Water, dry chemical, foam, CO₂. Cool containers with water spray.
SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should wear self-contained breathing apparatus with full facepiece operated in pressure-demand or other positive-pressure mode.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Vapors may flow and flash back from distant ignition source. Strong oxidizers may cause ignition. Reacts with metals to form hydrogen gas, which is flammable and explosive in air.

SECTION 5 REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID: Heat, flame, ignition sources, freezing.

MATERIALS TO AVOID: Chromic acid, nitric acid, ethylene glycol, perchloric acid, oxidizers, sodium peroxide, strong alkalis, most metals, carbonates, hydroxides, oxides and phosphates.

HAZARDOUS DECOMPOSITION PRODUCTS: CO, CO₂.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 6 HEALTH HAZARD DATA

ROUTES OF ENTRY AND EFFECTS OF OVEREXPOSURE

INHALATION: May cause damage to nose and respiratory tract. May cause breathing difficulties.

SKIN CONTACT: May cause severe burns.

EYE CONTACT: May cause severe burns, blindness. Vapor causes irritation.

SKIN ABSORPTION: N/I

INGESTION: Causes severe burns, vomiting, diarrhea.

CHRONIC: Darkening of skin, erosion of exposed teeth, chronic upper respiratory inflammation.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Skin or eye disorders, impaired respiratory function.

CARCINOGENICITY: None

****FIRST AID PROCEDURES****

EYE CONTACT: Immediately flush with plenty of water for at least 15 minutes. Get immediate medical attention.

SKIN CONTACT: Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

INGESTION: Do NOT induce vomiting. If conscious, give large quantities of water or milk to drink. Get immediate medical attention.

SECTION 7 PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED: Ventilate area and eliminate sources of ignition. Wear suitable respirator. Absorb with inert material and containerize for disposal.

WASTE DISPOSAL METHOD: Dispose in accordance with all applicable federal, state, and local environmental regulations.

STORAGE: Store tightly closed in an approved Flammable Liquids storage area.

SECTION 8 CONTROL MEASURES

VENTILATION: Local preferred.

RESPIRATORY PROTECTION: Full-face acid gas respirator or positive pressure air supplied respirator.

EYE PROTECTION: Chemical splash safety goggles and/or full face shield.

SKIN PROTECTION: Gloves, lab coat and impervious apron.

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