

MATERIAL SAFETY DATA SHEET

ACETIC ACID 3% - 5%

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Product/Chemical Name: ACETIC ACID 3% - 5%

Formula: CH₃CO₂H

Physical Description: Clear, colorless liquid with a strong, pungent odor, characteristic of vinegar with an acidic taste.

Boiling Point: 212 °F (100°C). Specific gravity: approximately 1. Water soluble.

Special Hazards: N/A

Unusual Fire/Explosion Hazards: Combustible when exposed to heat or flame.

Reactivity: Reacts exothermically with water.

Hazardous Decomposition Products: Thermal decomposition products may include toxic oxides of carbon.

Spill or Leak Procedures

Action: Neutralize with caustic soda (NaOH) or soda ash (Na₂CO₃). For small spills take up with sand or other absorbent material.

Disposal Method: To be performed in compliance with all current local, state and federal regulations.

Threshold Limit Value: 816 ppm of Acetic acid/3 minutes. Inhalation human TCLO. 1470 µg/kg of Acetic acid oral-human TDLO.

Overexposure Effects: Workers exposed to concentrations up to 200 ppm of Acetic acid have been found to suffer from palpebral edema with hypertrophy of the lymph nodes, chronic pharyngitis, chronic bronchitis, and in some cases, asthmatic bronchitis and traces of erosion of the teeth. Complaints of digestive disorders with pyrosis have also been reported.

Potential Carcinogen: No

First Aid Procedures

Skin: Remove contaminated clothes and shoes. Wash with soap or mild detergent and large amounts of water until no evidence of chemical remains (approx. 15-20 minutes). With chemical burns, cover area with sterile, dry dressing. Bandage securely but not too tightly. Get medical attention immediately.

Eye: Check for and remove any contact lenses. Flush eyes immediately with large amounts of water, occasionally lifting upper and lower lids until no evidence of chemical remains (approx. 15-20 minutes). Do not use an eye ointment. Get medical attention immediately.

Ingestion: Check for and remove any dentures. Do not induce vomiting. Dilute the acid by drinking large quantities of water or milk. If vomiting persists, administer fluids repeatedly. Ingested acid must be diluted approximately 100 fold to render it harmless to tissues. Maintain airway and treat shock. Get medical attention immediately.

Inhalation: Remove to fresh air. If breathing stopped, give CPR. Get medical attention.

Storage Recommendations: Store at room temperature.

Special Protection Information:

Exhaust ventilation recommended. Protective gloves and safety goggles required.

Special Handling Precautions: DOT Hazard Class: N/A