

ACETONE MATERIAL SAFETY DATA SHEET



SECTION I - PRODUCT IDENTIFICATION

Product Name: Acetone
Date Prepared: 10/01/86
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SECTION II - HAZARDOUS INGREDIENTS

Chemical Name: Acetone
CAS Numbers: 67-64-1
Exposure Limits: ACGIH TLV - 750 ppm; OSHA PEL 1000 ppm

SECTION III - PHYSICAL PROPERTIES

Vapor Density (air=1): 2.0
Specific Gravity: 0.792
Solubility in Water: Complete
Vapor Pressure, mmHg at 20 Degrees C: 266
Melting Point (Degrees Fahrenheit): 169
Boiling Point (Degrees Fahrenheit): 133
Evaporation Rate (Butyl Acetate=1): 14.48
Appearance and Odor: Clear, colorless liquid; fragrant, mint-like odor.

SECTION IV - FIRE AND EXPLOSION

Flash Point (Fahrenheit) and Method: 1.4 (Tag closed cup)
Flammable Limits in Air, Volume %: Lower: 2.6; Upper: 12.8
Fire Extinguishing Materials: Foam, Carbon Dioxide, Dry Chemical

SECTION V - HEALTH HAZARD INFORMATION

Symptoms of Overexposure:
Inhaled: Irritation of mucous membranes, headache, nausea, dizziness, and narcosis can result from excessive exposure to vapors.
Contact with Skin or Eyes: Eye irritation and may be damaging.
Absorbed Through Skin: Not expected to cause injury.
Swallowed: Mucous membrane and gastrointestinal irritation.
Health Effects from Overexposure:
Acute: Oral, dog: LD=24gm/kg; Dermal, rabbit: LD=20gm/kg
Human TClo: 500 ppm TFX:EYE
Chronic: None known.
First Aid - Emergency Procedures:
Eye Contact: Flush eyes promptly with large amounts of water, occasionally lifting the upper and lower lids. Get medical attention immediately.
Skin Contact: Promptly wash contaminated skin with soap or mild detergent and water. Get medical attention if irritation persists.
Inhaled: Remove to fresh air. Restore and/or support breathing if required. If effects are more severe than a headache, contact a physician.
Swallowed: Give water to dilute. Induce vomiting and consult a physician.

IN ALL OF THE ABOVE EMERGENCY CASES, CALL A PHYSICIAN.

Suspected Cancer Agent: No

Medical Conditions Aggravated by Exposure: None Known.

This products ingredients are not found in the following lists:
OSHA, NTP, IARC.

SECTION VI - REACTIVITY DATA

Stability: Stable
Incompatibility: Oxidizing Agents
Hazardous Decomposition Products: None
Hazardous Polymerization: Will not occur
Conditions to Avoid: Heat - Acetone is a highly flammable material. Oxidation and deficiency of air can produce carbon monoxide.

SECTION VII - SPILL, LEAK, AND DISPOSAL PROCEDURES

Spill Reponse Procedures: Provide maximum explosion proof ventilation. Eliminate all sources of ignition. Flush with water spray to clear area of acetone (flush to open ground, NOT to drains, sewers or surface water courses), or dilute with water and pick up with non-sparking tools for disposal.

Note: Those involved with clean-up should have protection against contact with liquid and inhalation of vapors.
Preparing Wastes for Disposal: Incineration is a recommended method to dispose of scrap acetone. When amounts warrant it, consider reclaiming by distillation.

Note: Dispose of all wastes in accordance with Federal, State, and Local Regulations.

SECTION VIII - SPECIAL HANDLING INFORMATION

Ventilation and Engineering Controls: To meet TLV requirements.
Respiratory Protection: For non-routine or emergency exposure, above the TLV, use NIOSH or OSHA approved full facepiece gas mask with organic vapor canister, or air-supplied respirator in accordance with conditions.
Eye Protection: Safety Glasses
Gloves: Polyvinyl acetate gloves
Other Handling and Storage Requirements: Store in a cool, clean, well-ventilated fireproof storage room or cabinet to meet OSHA requirements. Sprinkler fire protection is needed in areas of storage, handling, and use. Store in drums or safety cans with identifying labels which indicate the flammability of the material. Acetone must be stored and handled away from heat. No smoking in storage or use areas. Prevent container damage. Electrically interconnect and ground containers for all transfers of acetone to avoid fires from static sparks. An eyewash station and safety shower should be available near the workplace where splashing is possible.

ADDITIONAL INFORMATION CONTINUED ON THE OTHER SIDE

SECTION IX - USERS RESPONSIBILITY

A bulletin such as this cannot be expected to cover all possible individual situations. As the user has the responsibility to provide a safe workplace, all aspects of an individual operation should be determined if, or where, precautions, in addition to those described herein should be passed on to your customers or employees, as the case may be. OPI Products Inc. must rely on the user to utilize the information we have supplied to develop work practice guidelines and employee instructional programs for the individual operation and regulations.

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