

Humco Holding Group, Inc.
7400 Alumax Drive
Texarkana, TX 75501
800-662-3435

Item #0395-0019

Acetone

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SECTION 1 PRODUCT IDENTIFICATION & EMERGENCY INFORMATION

Product Name: Acetone **Chemical Name:** Acetone

Cas No: 67-64-1 **Common Name:** Acetone

Chemical Family: Ketone **Formula:** CH₃COCH₃

Synonym: Dimethyl Ketone, 2-Propanone, Dimethyl Ketal

Emergency Telephone Numbers:

Humco Holding Group, Inc. 800-662-3435
Chemtec 800-424-9300

SECTION 2 PHYSICAL DATA

Boiling Point @ 760 mmHG: 133.32°F (56.29°C) **Percent Volatiles:** 100.00%

Vapor Pressure @ 20°C: 184 mmHG 24.05 kPa **Specific Gravity @ 20/20°C :** .7915

Evaporation Rate (N-Butyl Acetate = 1): 14.4 **Vapor Density: Air = 1:** 2.00

Solubility in Water by wt.: Complete @ 20°C **Appearance:** Transparent colorless

Odor: Mint **Physical State:** Liquid

pH: Not currently available. **Molecular Weight:** 58.08 g/mol

Freezing Point: -96.54°C -141.77°F **Melting Point:** NA

Flash Point – Closed Cup: Tag Closed Cup ASTM D 56 -18°C 0°F

Flash Point – Open Cup: Tag Open Cup ASTM D 1310 -15°C 4°F

Acetone

SECTION 3 INGREDIENTS

MATERIAL	AMOUNT	CAS #:
Acetone	> = 99. > = 100.%	67-64-1

SECTION 4 FIRE & EXPLOSION HAZARD

Flash Point – Closed Cup: Tag Closed Cup ASTM D 56 -18°C 0°F

Flash Point – Open Cup: Tag Open Cup ASTM D 1310 -15°C 4°F

Autoignition Temperature: Not determined.

Flammable Limits in Air (% by volume): Lower - 2.15% Upper - 13%

Extinguishing Media: Apply alcohol-type or all-purpose-type foam by manufacturer's recommended techniques for large fires. Use Carbon dioxide or dry chemical media for small fires.

Special Firefighting Procedures: Use water spray to cool fire-exposed containers & structures. Use remote spray monitors or fight fire from behind shields. Use water spray to disperse vapors; re-ignition is possible.

Special Protective Equipment for Firefighters: Use self-contained breathing apparatus and protective clothing.

Unusual Fire & Explosion Hazards: Vapors form from this product and may travel or be moved by air currents and ignited by pilot lights, other flames, smoking, sparks, heaters, electrical equipment, static discharges or other ignition sources at locations distant from product handling point. Vapors from this material may settle in low or confined areas or travel a long distance to an ignition source and flash back explosively. This material may produce a floating fire hazard.

Static ignition hazard can result from handling and use. Electrically bond and ground all containers, personnel and equipment before transfer or use of material. Use proper bonding and grounding during product transfer as described in National Fire Protection Association Document NFPA 77. See Section 8.3 – Engineering Controls.

Hazardous Combustion Products: Burning can produce the following products: Carbon monoxide and/or carbon dioxide. Carbon monoxide is highly toxic if inhaled; carbon dioxide in sufficient concentrations can act as an asphyxiant.

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Hazard Rating Systems: This information is for people trained in: National Fire Protection Association (NFPA 704) Identification of the Fire Hazards of Materials

	NFPA 704	KEY	4 = Severe
Health	1		3 = Serious
Flammability	3		2 = Moderate
Reactivity	0		1 = Slight

SECTION 5

HEALTH HAZARD DATA

Appearance: Transparent colorless **Physical State:** Liquid **Odor:** Mint

Hazards of Product: Danger! Extremely Flammable. Harmful if inhaled. Causes eye irritation. Aspiration may cause lung damage. May cause dizziness and drowsiness.

POTENTIAL HEALTH EFFECTS

Eye Contact: Causes severe irritation, experienced as discomfort or pain, excess blinking and tear production, with marked excess redness and swelling of the conjunctiva. Corneal injury may occur.

Skin Contact: Brief contact is not irritating. Prolonged or repeated contact may cause defatting and drying of the skin.

Skin Absorption: No evidence of harmful effects from available information.

Inhalation: Vapors are irritating and may cause a stinging and itching sensation in the eyes, nose and throat, coughing, excessive blinking, tear production, nausea and possibly vomiting. High vapor concentrations may result in headache, nausea, weakness, dizziness, incoordination and eventually unconsciousness.

Swallowing: Slightly toxic. Headache, nausea, vomiting, dizziness, and drowsiness may occur. Aspiration into the lungs may occur during ingestion or vomiting, resulting in lung injury.

Chronic, Prolonged or Repeated Overexposure

Effects of Repeated Overexposure: No adverse effects anticipated from available information.

Other Effects of Overexposure: None currently known.

Medical Conditions Aggravated by Overexposure: Skin contact may aggravate an existing dermatitis.

Acetone

FIRST AID:

Skin Contact: Remove contaminated clothing. Wash skin with soap and water. Obtain medical attention if irritation persists. Wash clothing before reuse.

Eye Contact: Immediately flush eyes with water and continue washing for at least 15 minutes. Do Not remove contact lenses, if worn. Obtain medical attention without delay, preferably from an ophthalmologist.

Swallowing: If patient is fully conscious, give two glasses of water. Do Not Induce Vomiting. Obtain medical attention.

Inhalation: Remove to fresh air. Give artificial respiration if not breathing. If breathing is difficult, oxygen may be given by qualified personnel. Obtain medical attention.

Note to Physician: Aspirated acetone may cause severe lung damage and present a significant hazard. Stomach contents should be evacuated quickly in a manner, which avoids aspiration. Otherwise, treatment of overexposure is directed at the control of symptoms and the clinical condition of the patient. No specific antidote is known.

SECTION 6

REACTIVITY DATA

Hazardous Polymerization: Will not occur.

Conditions to Avoid: Contact with excessive heat, open flame, sparks, or ignition sources.

Stability: Stable.

Incompatibility: Avoid contact with strong oxidizing agents, nitric acid, and alkalies.

Inhibitors/Stabilizers: NA

SECTION 7

SPILL OR LEAK PROCEDURES

Step to be Taken if Material is Released or Spilled: Small spills can be flushed with large amounts of water; larger spills should be collected for disposal. Extinguish and do not turn on any ignition source until the area is determined to be free from fire or explosion hazard. Observe government regulations.

Personal Precautions: Wear suitable protective equipment.

Acetone

SECTION 8 EXPOSURE CONTROLS & PERSONAL PROTECTION

Component	Exposure Limits	Skin	IH State
Acetone	1188 mg/m ³ TWA8 ACGIH 500 ppm TWA8 ACGIH 1782 mg/m ³ STEL ACGIH 750 ppm STEL ACGIH 1800 mg/m ³ TWA8 OSHA 750 ppm TWA8 OSHA 1000 ppm STEL OSHA 2400 mg/m ³ STEL OSHA		

Respiratory Protection: Use self-contained breathing apparatus in high vapor concentrations.

Ventilation: General (mechanical) room ventilation is expected to be satisfactory where this product is stored and handled in closed equipment. Special, local ventilation is needed at points where vapors can be expected to escape to the workplace air.

Protective Gloves: Butyl gloves.

Eye Protection: Monogoggles.

Other Protective Equipment: Eye bath, safety shower.

Engineering Controls

Process Hazard: Sudden release of hot organic chemical vapors or mists from process equipment operating at elevated temperature and pressure, or sudden ingress of air into hot equipment under a vacuum, may result in ignitions without the presence of obvious ignition sources. Published “autoignition” or “ignition” temperature values cannot be treated as safe operating temperatures in chemical processes without analysis of the actual process conditions. Any use of this product in elevated-temperature processes should be thoroughly evaluated to establish and maintain safe operating conditions. Further information is available in a technical bulletin entitled “Ignition Hazards of Organic Chemical Vapors”.

SECTION 9 SPECIAL PRECAUTIONS

General Handling: Keep away from heat, sparks and flame. Avoid breathing vapor. Avoid contact with eyes. Do not swallow. Keep container closed. Use with adequate ventilation. Vapor forms from this product and may travel or be moved by air currents and ignited by pilot lights, other flames, smoking, sparks, heaters, electrical equipment, static discharges or other ignition sources at locations distant from product handling point and may flashback explosively. Wash thoroughly after handling.

FOR INDUSTRY USE ONLY

Acetone

Other Precautions: Vapors may settle in low or confined areas, or travel a long distance to an ignition source and flash back explosively.

Storage: Store at normal ambient temperatures.

SECTION 10 TOXICOLOGICAL INFORMATION

Significant Data with Possible Relevance to Humans: Development of cataracts has been reported in laboratory animals after prolonged repeated skin exposure to acetone.

SECTION 11 DISPOSAL CONSIDERATIONS

Waste Disposal Method: Incinerate in a furnace where permitted under Federal, State, and local regulations. Dispose in accordance with all applicable Federal, State, Provincial, and local environmental regulations. Empty containers should be recycled or disposed of through an approved waste management facility.

Disposal Considerations: Disposal methods identified are for the product as sold. For proper disposal of used material, an assessment must be completed to determine the proper and permissible waste management options permissible under applicable rules, regulations and/or laws governing your location.

SECTION 12 TRANSPORT INFORMATION

US DOT:

Non-Bulk

Proper Shipping Name: Acetone

Hazard Class: 3

ID Number: UN 1090

Packing Group: PG II

Bulk

Proper Shipping Name: Acetone

Hazard Class: 3

ID Number: UN 1090

Packing Group: PG II

Reportable Quantity: 5,000 lbs.

This information is not intended to convey all specific regulatory or operations requirements/information relating to this product. Additional transportation system information can be obtained through your UCC sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

Acetone**SECTION 13****REGULATORY INFORMATION****Federal/National****CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act of 1980 Section 103)**

Components present in this product at a level which could require reporting under the statute are:

Chemical	CAS Number	Amount
Acetone	67-64-1	< = 100.0000%
Methanol	67-56-1	< = 0.0250%
Formaldehyde	50-00-0	< = 0.0020%
Acetic Acid	64-19-7	< = 0.0020%
Propanal	123-38-6	< = 0.0020%
Benzene	71-43-2	< = 0.0005%

Superfund Amendments & Reauthorization Act to 1986 (SARA) Title III Sections 302 & 304

The following components of this product are listed as extremely hazardous substances in 40 CFR Part 355 and are present at levels which could require reporting and emergency planning:

None

Superfund Amendments & Reauthorization Act to 1986 (SARA) Title III Section 313

The following components of this product are listed as toxic chemicals in 40 CFR 372.65 and are present at levels which could require reporting and customer notification under Section 313 and 40 CFR Part 372:

This product does not contain toxic chemicals at levels, which require reporting under the statute.

Superfund Amendments & Reauthorization Act to 1986 (SARA) Title III Sections 311 & 312

Delayed Hazard: Yes **Fire Hazard:** Yes **Immediate Health Hazard:** Yes

Reactive Hazard: No **Sudden Release of Pressure Hazard:** No

Toxic Substances Control Act (TSCA) Status: The ingredients of this product are on the TSCA inventory or are exempt from TSCA Inventory requirements.

Acetone**State/Local**

Pennsylvania (Worker & Community Right-to-Know Act)

This product is subject to the Worker & Community Right-to-Know Act. The following components of this product are at levels, which could require identification in the MSDS:

Component	CAS #	Amount
Acetone	67-64-1	< = 100.0000%

Massachusetts (Hazardous Substances Disclosure by Employers)

The following components of this product appear on the Massachusetts Substance List and are present at levels, which could require identification in the MSDS:

Component	CAS #	Amount
Acetone	67-64-1	< = 100.0000%
Formaldehyde	50-00-0	< = 0.0020%
Benzene	71-43-2	< = 0.0005%

New York (Hazardous Substances Bulk Storage Act)

New York State Bulk Storage Regulations (6 NYCRR Parts 595-599) This product is covered by 6 NYCRR for Bulk Storage & Release Reporting and Response. Technical guidance and recommended practices are as follows: **MATERIALS OF CONSTRUCTION:** Suitable materials of construction are: Steel, stainless steel, aluminum, baked phenolic lined steel, galvanized steel – Materials not to be used: Copper and copper alloys. Plastics, including polyvinyl chloride and polyethylene. **STORAGE SYSTEM DESIGN:** Design should comply with applicable industry, Federal, and local codes for a Class IB Flammable liquid with regards to mechanical, electrical, safety and health components. Should also comply with NYS/DEC Chemical Bulk Storage regulations Parts 598.1 – 598.3 and 598.5 (for existing tanks) or Parts 599.1 to 599.10 (for new or substantially modified tanks). **CONDITIONS FOR STORAGE:** Store at normal ambient temperatures. **INSPECTION & MAINTENANCE:** A testing/inspection program, which ensures structural integrity and proper system operation, should be established. Inspection and maintenance procedures and testing of equipment should comply with NYS/DEC regulations Parts 598.6 to 598.10. **TRANSFER AND UNLOADING:** These operations should comply with NYS/DEC regulations, Part 598.4.

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)

This product contains the following chemical(s) known to State of California to cause cancer.

Component	CAS #	Amount
Formaldehyde	50-00-0	< = 0.0020%
Benzene	71-43-2	< = 0.0005%

Acetone

California SCAQMD Rule 443.1 (South Coast Air Quality Management District Rule 443.1, Labeling of Materials Containing Organic Solvents)

VOC: Vapor pressure 184 mmHg @20°C 790 g/l

This section provides selected regulatory information on this product including its components. This is not intended to include all regulations. It is the responsibility of the user to know and comply with all applicable rules, regulations and laws relating to the product being used.