

# SAFETY DATA SHEET

## Acetone

This SDS is valid for all grades that start with catalog number 329

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### 1. IDENTIFICATION OF SUBSTANCE / MIXTURE AND OF SUPPLIER

**Product Identifier:** High Purity Chemicals  
**Synonyms:** Dimethyl Ketone, 2-Propanone, Dimethylformaldehyde, Pyroacetic acid, Pyroacetic ether  
**Other means of identification:** CAS No. 67-64-1  
EINECS No. 200-662-2  
**Recommended use of the chemical and restrictions on use:**  
General purpose organic solvent

#### Supplier Details:

**Pharmco Products, Inc.**  
58 Vale Road, Brookfield,  
CT 06804, USA.  
Tel: 203.740.3471  
Fax: 203.740.3481  
CCN17213

**Pharmco Products, Inc.**  
1101 Isaac Shelby Drive, Shelbyville,  
KY 40065, USA.  
Tel: 502.232.7600  
Fax: 502.633.6100  
CCN17213

**Emergency Contact:** CHEMTREC: 1.800.424.9300 (USA) / +1.703.527.3887 (International)

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### 2. HAZARDS IDENTIFICATION

#### Emergency Overview:

This material is HAZARDOUS by OSHA Hazard Communication definition. Flammable Liquid. Material can burn with little or no visible flame. May be irritating to the eyes, skin, and respiratory system. May cause central nervous system depression.

#### OSHA Hazards:

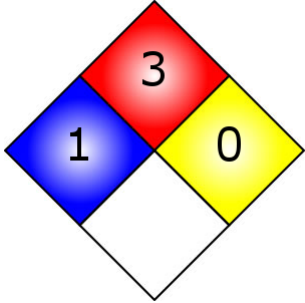
Flammable liquid, Target Organ Effect, Irritant

#### Target Organs:

Kidney, Liver

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**NFPA**



**GHS label elements, including precautionary statements**



**Signal Word:**

DANGER!

**Hazard statement(s)**

H225	Highly flammable liquid and vapor.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

**Precautionary statement(s)**

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention.
P210	Keep away from heat, sparks, open flames, and hot surfaces. No smoking.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P243	Take precautionary measures against static discharge.

**GHS Classification(s)**

Eye irritation (Category 2)  
Flammable Liquids (Category 2)  
Specific target organ toxicity - single exposure (Category 3)

**Other hazards which do not result in classification:**

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**Potential Health Effects:**

Organ	Description
Eyes	Causes eye irritation.
Ingestion	May be harmful if swallowed.
Inhalation	May be harmful if inhaled. Causes respiratory tract irritation. Vapors may cause drowsiness and dizziness.
Skin	Harmful if absorbed through skin. Causes skin irritation.

**3. COMPOSITION AND INFORMATION ON INGREDIENTS**

**Chemical identity:** Acetone  
**Common name / Synonym:** Dimethyl Ketone, 2-Propanone, Dimethylformaldehyde, Pyroacetic acid, Pyroacetic ether  
**CAS number:** 67-64-1  
**EINECS number:** 200-662-2  
**ICSC number:** 0087  
**RTECS #:** AL3150000  
**UN #:** 1090  
**EC #:** 606-001-00-8

% Weight	Material	CAS
100	Acetone	67-64-1

**4. FIRST AID MEASURES**

**General advice**

Take proper precautions to ensure your own health and safety before attempting rescue and providing first aid. Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**Skin**

Wash skin with soap and copious amounts of water. Seek medical attention.

**Inhalation**

Remove person to fresh air. If signs/symptoms continue, get medical attention. Give oxygen or artificial respiration as needed.

**Eyes**

Thoroughly flush the eyes with large amounts of clean low-pressure water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation persists, seek medical attention.

**Ingestion**

DO NOT induce vomiting. If vomiting does occur, have victim lean forward to prevent aspiration. Rinse mouth with water. Seek medical attention. Never give anything by mouth to an unconscious individual.

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## 5. FIRE FIGHTING MEASURES

### **Suitable (and unsuitable) extinguishing media:**

SMALL FIRE: Use dry chemicals, CO<sub>2</sub>, water spray or alcohol-resistant foam. LARGE FIRE: Use water spray, water fog or alcohol-resistant foam. Cool all affected containers with flooding quantities of water.

### **Specific hazards arising from the chemical (e.g., nature of any hazardous combustion products):**

Carbon oxides expected to be the primary hazardous combustion product.

### **Special protective equipment and precautions for firefighters:**

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Keep unopened containers cool by spraying with water.

### **Unusual Fire and Explosion Hazards:**

- May produce a floating fire hazard.
- Static ignition hazard can result from handling and use.
- Vapors may travel to source of ignition and flash back.
- Vapors may settle in low or confined spaces.

### **Flammable Properties**

#### **Classification**

OSHA/NFPA Class IB Flammable Liquid.

#### **Flash point**

-20°C (-4°F) Closed Cup

#### **Autoignition temperature**

465°C (869°F)

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## 6. ACCIDENTAL RELEASE MEASURES

### **Personal precautions, protective equipment and emergency procedures:**

Do not inhale vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

### **Environmental precautions:**

Stop leak. Contain spill if possible and safe to do so. Prevent product from entering drains.

### **Methods and materials for containment and cleaning up:**

Highly flammable liquid. Eliminate all sources of ignition. All equipment used when handling this product must be grounded. A vapor suppressing foam may be used to reduce vapors. Do not touch or walk through spilled material. 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. Use clean non-sparking tools to collect absorbed material.

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## 7. HANDLING AND STORAGE

### Precautions for safe handling:

Do not get on skin or in eyes. Do not inhale vapor or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the buildup of electrostatic charge. Open and handle container with care. Metal containers involved in the transfer of this material should be grounded and bonded.

### Conditions for safe storage, including any incompatibilities:

Keep container tightly closed in a cool, dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Consult local fire codes for additional storage information.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Control parameters, e.g., occupational exposure limit values or biological limit values:

#### Occupational Exposure Limits

Component	Source	Type	Value	Note
Acetone	US (ACGIH)	TWA	500 ppm	
Acetone	US (ACGIH)	STEL	750 ppm	

### Appropriate engineering controls:

General room or local exhaust ventilation is usually required to meet exposure limit(s). Electrical equipment should be grounded and conform to applicable electrical code.

### Individual protection measures, such as personal protective equipment:

#### 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. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection:

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### Eye protection:

Use chemical safety goggles and/or a full face shield where splashing is possible. Use equipment approved by appropriate government standards, such as NIOSH (US) or EN166 (EU) Maintain eye wash fountain and quick-drench facilities in work area.

#### Skin and body protection:

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to

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prevent skin contact.

**Hygiene measures:**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance (physical state, color, etc.)</b>	Liquid. Colorless liquid / invisible vapor.
<b>Odor</b>	Sweet. Alcohol-like
<b>Odor threshold</b>	No Data Available.
<b>pH</b>	No Data Available.
<b>Freezing point</b>	-94 °C (-137 °F)
<b>Initial boiling point and boiling range</b>	56 °C (133 °F)
<b>Flash point</b>	-20 °C (-4 °F) Closed Cup
<b>Evaporation rate</b>	Specific data not available - expected to be rapid.
<b>Flammability (solid, gas)</b>	Flammable
<b>Upper / Lower flammability or explosive limits</b>	2.5 %(V) / 12.8 %(V)
<b>Vapor pressure</b>	245.3 hPa (184.0 mmHg) at 20.0 °C (68.0 °F)
<b>Relative Density</b>	0.791 g/cm <sup>3</sup> at 25 °C (77 °F)
<b>Solubility(ies)</b>	completely soluble
<b>Partition coefficient n-octanol/water(ies)</b>	No Data Available.
<b>Auto-ignition temperature</b>	465 °C (869 °F)
<b>Decomposition temperature</b>	Not pertinent
<b>Formula (ACETONE)</b>	C <sub>3</sub> H <sub>6</sub> O
<b>Molecular Weight (ACETONE)</b>	58.08 g/mol

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable under recommended storage conditions.
<b>Possibility of hazardous reactions</b>	Vapors may form explosive mixture with air.
<b>Conditions to avoid (e.g., static discharge, shock or vibration)</b>	Heat, flames, and sparks. Extreme temperatures and direct sunlight.
<b>Incompatible materials</b>	Alkali metals, Ammonia, Oxidizing agents, Peroxides, Strong Inorganic Acids
<b>Hazardous decomposition products</b>	Hazardous decomposition products formed under fire conditions. - Carbon oxides

## 11. TOXICOLOGICAL INFORMATION

• Acetone 67-64-1

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**Acute Toxicity:**

LC50 (Inhalation)	Rat	50,100 mg/m3	8 hours
LD50 (Oral)	Rat	5,800 mg/kg	
LD50 (Skin)	Guinea Pig	7,426 mg/kg	

**Irritation:**

**Eyes**

Causes eye irritation.

**Skin**

Slightly irritating to the skin. Repeated contact with neat product may dry the skin causing cracking and/or fissuring.

**Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Other Hazards**

Organ	Description
Eyes	Irritating to the eyes.
Ingestion	May be harmful if ingested.
Inhalation	May be harmful if inhaled. Irritating to the respiratory tract. Vapors may cause drowsiness and dizziness.
Skin	Harmful if absorbed through skin. Irritating to skin.

**12. ECOLOGICAL INFORMATION**

- Acetone 67-64-1

**Ecotoxicity (aquatic and terrestrial, where available):**

**Acute Fish Toxicity (ACETONE)**

LC50 / 96 hours Rainbow Trout 5,540 mg/L

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**Persistence and degradability:**  
No data available

**Bioaccumulative potential:**  
No data available

### 13. DISPOSAL CONSIDERATIONS

**Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging:**

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

### 14. TRANSPORT INFORMATION

**Description of waste residues and information on their safe handling and methods of disposal:**

<b>UN number</b>	UN1090
<b>UN proper shipping name</b>	Acetone
<b>Transport hazard class(es)</b>	3
<b>Packing group (if applicable)</b>	II

**Reportable Quantity**

5,000 lbs.

**IMDG**

UN-Number: UN1090 Class: 3 Packing Group: II

EMS-No: F-E, S-D

Proper shipping name: ACETONE

Marine pollutant: No

**IATA**

UN-Number: UN1090 Class: 3 Packing Group: II

Proper shipping name: Acetone

### 15. REGULATORY INFORMATION

**Safety, health and environmental regulations specific for the product in question:**

**OSHA Hazards**

Flammable liquid, Target Organ Effect, Irritant

All ingredients are on the following inventories or are exempted from listing

Country	Notification
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Australia	AICS
Canada	DSL
China	IECS
European Union	EINECS
Japan	ENCS/ISHL
Korea	ECL
New Zealand	NZIoC
Philippines	PICCS
United States of America	TSCA

**SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**

- Acute Health Hazard
- Chronic Health Hazard
- Fire Hazard

**CERCLA**

Acetone CAS-No. 67-64-1, RQ: 5,000 lbs

**Massachusetts Right To Know Components**

Acetone CAS-No. 67-64-1 Revision Date 2007-03-01

**Pennsylvania Right To Know Components**

Acetone CAS-No. 67-64-1 Revision Date 2007-03-01

**New Jersey Right To Know Components**

Acetone CAS-No. 67-64-1 Revision Date 2007-03-01

**California Prop 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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## **16. OTHER INFORMATION: INCLUDING INFORMATION ON PREPARATION AND REVISION OF THE SDS**

### **Disclaimer**

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