



# MATERIAL SAFETY DATA SHEET

Date Issued: 04/23/2012  
MSDS No: 1611-P

## Acetone

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Acetone  
**PRODUCT DESCRIPTION:** Acetone  
**PRODUCT CODE:** 1611-P  
**ACTIVE INGREDIENT(S):** Acetone

#### MANUFACTURER

Techspray, L.P.  
1001 N.W. 1st Street  
P.O. Box 949  
Amarillo, TX 79107  
**Emergency Contact:** Chemtrec  
**Emergency Phone:** 1-800-858-4043  
**Service Number:** 1-800-858-4043

#### 24 HR. EMERGENCY TELEPHONE NUMBERS

**CHEMTREC CCN#21858 (US Transportation) :**(800) 424 - 9300  
**CANUTEC (Canadian Transportation) :**(613) 996 - 6666  
**Emergency Phone :**(800) 858 - 4043

### 2. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

**PHYSICAL APPEARANCE:** Clear, Colorless, Volatile Liquid

**IMMEDIATE CONCERNS:** Flammable liquid and vapor. Vapor may cause flash fire. Harmful if swallowed or inhaled. Causes irritation to skin, eyes and respiratory tract. Affects central nervous system.

#### POTENTIAL HEALTH EFFECTS

**EYES:** Severely irritating to the eyes.

**SKIN:** Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

**SKIN ABSORPTION:** None Expected.

**INGESTION:** Harmful: may cause lung damage if swallowed.

**INHALATION:** Harmful if inhaled. Prolonged or repeated inhalation may cause lung damage and/or central nervous system disturbances.

#### SIGNS AND SYMPTOMS OF OVEREXPOSURE

**EYES:** Symptoms of overexposure include: stinging, tearing, redness and pain.

**SKIN:** Prolonged exposure causes redness, pain, drying and cracking of the skin.

**SKIN ABSORPTION:** None Expected.

**INGESTION:** For large amounts; abdominal pain, nausea and vomiting.

**INHALATION:** High concentrations may lead to central nervous system effects (drowsiness, dizziness, nausea, headaches, paralysis and loss of consciousness).

**ACUTE TOXICITY:** Substance causes severe eye irritation. Injury may be permanent.

**CHRONIC EFFECTS:** Frequent or prolonged contact may irritate the skin and cause a skin rash (dermatitis).

**CARCINOGENICITY:** None Expected.

**MUTAGENICITY:** None Expected.

#### REPRODUCTIVE TOXICITY

**REPRODUCTIVE EFFECTS:** None Expected.

**TERATOGENIC EFFECTS:** None Expected.



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**MEDICAL CONDITIONS AGGRAVATED:** Use of alcoholic beverages enhances toxic effects.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS	EINECS
Acetone	99 - 100	67-64-1	200-662-2

### 4. FIRST AID MEASURES

**EYES:** Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.

**SKIN:** Immediately flush skin with plenty of water. Remove clothing. Get medical attention immediately. Wash clothing separately before reuse.

**INGESTION:** Aspiration hazard. If swallowed, vomiting may occur spontaneously, but do not induce. If vomiting occurs, keep head below hips to prevent aspiration into lungs. Call a physician immediately.

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

### 5. FIRE FIGHTING MEASURES

**FLASHPOINT AND METHOD:** -18°C CC

**FLAMMABLE LIMITS:** 2.1 to 13.0

**AUTOIGNITION TEMPERATURE:** 540°C (1004°F)

**GENERAL HAZARD:** Flammable Liquid. Can release vapors that form explosive mixtures at temperatures at or above the flash point.

**EXTINGUISHING MEDIA:** Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material.

**EXPLOSION HAZARDS:** Vapors may form explosive mixture with air.

**FIRE FIGHTING EQUIPMENT:** As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

### 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Avoid runoff into storm sewers and ditches which lead to waterways.

**LARGE SPILL:** -Implement cleanup procedures. -If in public area, keep public away and advise authorities. -Recover by pumping (use an explosion proof or hand pump) or with a suitable absorbent.

### 7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** Store in a cool dry place.

**HANDLING:** Ground and bond containers when transferring material.

**STORAGE:** Do not store near combustible materials.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION



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### EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)							
		EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		Supplier OEL	
Chemical Name		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Acetone	TWA	750 ppm <sup>[1]</sup>	1800 mg/m <sup>3</sup> <sup>[1]</sup>	750 ppm	1780 mg/m <sup>3</sup>	NL ppm	NL mg/m <sup>3</sup>
	STEL	1000 ppm	2400 mg/m <sup>3</sup>	1000 ppm	2380 mg/m <sup>3</sup>	NL ppm	NL mg/m <sup>3</sup>
OSHA TABLE COMMENTS:							
1. NL = Not Listed							

**ENGINEERING CONTROLS:** Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Wear safety glasses with side shields (or goggles) and a face shield.

**SKIN:** Where prolonged contact is likely, wear chemical resistant gloves, a chemical suit, rubber boots, and/or chemical safety goggles plus a face shield. Chemical resistant PPE constructed of PVA, Neoprene or Butyl rubber should be used. Any contaminated clothing should be promptly removed, washed, and checked for permeation before reuse.

**RESPIRATORY:** A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

**WORK HYGIENIC PRACTICES:** Wash hands before eating and wash before reuse.

**OTHER USE PRECAUTIONS:** Emergency shower and eyewash facility should be in close proximity.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Liquid

**ODOR:** Characteristic odor.

**APPEARANCE:** Clear, Colorless liquid

**pH:** Not Applicable

**PERCENT VOLATILE:** 100

**VAPOR PRESSURE:** 24.7 kPa at 20°C

**VAPOR DENSITY:** 2 (Air=1)

**BOILING POINT:** 56.29°C (133.32°F)

**FREEZING POINT:** -96.54°C (-141.77°F)

**MELTING POINT:** None

**FLASHPOINT AND METHOD:** -18°C CC

**SOLUBILITY IN WATER:** Fully miscible

**EVAPORATION RATE:** 14.4 (n-Butyl Acetate=1)

**DENSITY:** 0.792 at 20°C

**SPECIFIC GRAVITY:** 6.608 (water=1)



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**VISCOSITY #1:** 0.33 mPa. s. at 20°C

**MOLECULAR WEIGHT:** 58.08 g/mol

### 10. STABILITY AND REACTIVITY

**STABLE:** Yes

**HAZARDOUS POLYMERIZATION:** No

**STABILITY:** Stable.

**POLYMERIZATION:** Will not occur.

**CONDITIONS TO AVOID:** Heat, flames, ignition sources, and incompatibles.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Oxides of Carbon (CO and CO<sub>2</sub>) may form when heated to decomposition.

**INCOMPATIBLE MATERIALS:** Concentrated nitric and sulfuric acid mixtures, chloroform, alkalis, chlorine compounds, acids, potassium t-butoxide.

### 11. TOXICOLOGICAL INFORMATION

#### ACUTE

Chemical Name	ORAL LD <sub>50</sub> (rat)	DERMAL LD <sub>50</sub> (rabbit)	INHALATION LC <sub>50</sub> (rat)
Acetone	5800 mg/kg	20 g/kg	50100 ppm

**EYES:** 20 mg

**Notes:** Irritation eye rabbit, severe

**ORAL LD<sub>50</sub>:** > 2000 mg/kg (rat)

**INHALATION LC<sub>50</sub>:** > 5000 ppm, 1 hour, Rat

#### CARCINOGENICITY

Chemical Name	NTP Status	IARC Status	OSHA Status
Acetone	NOT LISTED	NOT LISTED	NOT LISTED

**IARC:** NOT listed

**NTP:** NOT listed

**OSHA:** NOT listed

**Notes:** ACGIH Group A4: Not classifiable as a human carcinogen.

### 12. ECOLOGICAL INFORMATION

**ECOTOXICOLOGICAL INFORMATION:** Low toxicity: LC/EC/IC<sub>50</sub> > 1000 mg/l

**BIOACCUMULATION/ACCUMULATION:** Not expected to bioaccumulate significantly.

### 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Federal, State, and Local laws governing disposal of materials can differ. Ensure compliance with proper authorities before disposal.



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### 14. TRANSPORT INFORMATION

#### DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: CONSUMER COMMODITY ORM-D

### 15. REGULATORY INFORMATION

#### UNITED STATES

#### SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

FIRE: Yes PRESSURE GENERATING: No REACTIVITY: No ACUTE: Yes CHRONIC: No

#### EPCRA SECTION 313 SUPPLIER NOTIFICATION

Chemical Name	Wt. %	CAS
Acetone	99 - 100	67-64-1

#### CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA REGULATORY: Acetone (67-64-1)

Chemical Name	Wt. %	CERCLA RQ
Acetone	99 - 100	5000 lbs.

CERCLA RQ: 5000 lbs

#### TSCA (TOXIC SUBSTANCE CONTROL ACT)

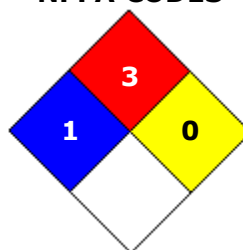
Chemical Name	CAS
Acetone	67-64-1

RCRA STATUS: U002

### 16. OTHER INFORMATION

APPROVED BY: Pierce A. Pillon TITLE: Chemist

#### NFPA CODES



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