

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Acetone (Technical)

**SYNONYMS:** Dimethyl ketone; 2-propanone; pyroacetic acid; dimethyl formaldehyde

**CATALOG CODES:** VAR

**MANUFACTURER:** Volu-Sol

**ADDRESS:** 5095 West 2100 South  
Salt Lake City, UT 84120

**EMERGENCY PHONE:** (800) 535-5053

**OTHER CALLS:** (801) 974-9474

**FAX:** (801) 974-9553

**CHEMICAL FAMILY:** Ketone

**CHEMICAL FORMULA:** (CH<sub>3</sub>)<sub>2</sub>CO

**PREPARED BY:** Volu-Sol

**RECOMMENDED USE:** Raw material, manufacture, processing, distribution, laboratory use, uses in coatings, use as binders and release agents, use in rubber production and processing, use in polymer production and processing, drilling applications, foaming agents, mining chemicals

**RESTRICTIONS ON USE:** Use as recommended

## SECTION 2: HAZARD(S) IDENTIFICATION

**EMERGENCY OVERVIEW:**

**GHS Classification:** Flammable Liquids (Category 2)  
Eye Irritation (Category 2A)  
Specific target organ toxicity (Category 3)  
Single exposure, Central Nervous System

## GHS LABEL ELEMENTS:

## Pictogram:



## 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):

P210 Keep away from heat/sparks/open flames/hot surfaces. No Smoking

P233 Keep container tightly closed

P240 Ground/bond container and receiving equipment

P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment

P242 Use only non-sparking tools

P243 Take precautionary measures against static discharge

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray

P264 Wash skin thoroughly after handling

P271 Use only outdoors or in a well-ventilated area

P280 Wear protective gloves/protective clothing/ eye protection/face protection

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P312 Call a POISON CENTER or doctor/physician if you feel unwell

P337+P313 If eye irritation persists: Get medical advice/attention

P370+P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction

P403+P233 Store in a well-ventilated place. Keep container tightly closed

P403+P235 Store in a well-ventilated place. Keep cool

P405 Store locked up

P501 Dispose of contents/container to an approved waste disposal plant

**OTHER HAZARDS:** Repeated exposure may cause skin dryness, cracking, severe irritation or dermatitis

## HMIS Classification:

**Health hazard:** 2

**Chronic health hazard:** -

**Flammability:** 3

**Physical hazards:** 0

## NFPA Rating:

**Health hazard:** 2

**Fire:** 3

**Reactivity Hazard:** 0

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS NO. EC-NO. Index-NO.
Acetone (≥99.5%)	67-64-1 200-662-2 606-001-00-8

## SECTION 4: FIRST AID MEASURES

**INHALATION:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician

**INGESTION:** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician

**SKIN:** Wash off with soap and plenty of water. Consult a physician

**EYE:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician

## SECTION 5: FIRE-FIGHTING MEASURES

**FLAMMABLE LIMITS IN AIR:** Percentage by Volume  
Upper: 13 %  
Lower: 2.5 %

**FLASH POINT:** -17°C (1.4°F) – closed cup

**AUTOIGNITION TEMPERATURE:** 465°C (869°F)

**EXTINGUISHING MEDIA:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

**FIRE FIGHTING PROCEDURES:** In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode

**FURTHER INFORMATION:** Use water spray to cool unopened containers

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**ACCIDENTAL RELEASE MEASURES:** Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations

## SECTION 7: HANDLING AND STORAGE

**HANDLING AND STORAGE:** Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use explosion-proof equipment. Keep away from sources of ignition - No smoking. Take measures to prevent the buildup of electrostatic charge. Keep container

tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage

**INCOMPATIBILITIES:** bases, oxidizing agents, reducing agents, phosphorous oxychloride

#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**EXPOSURE LIMITS:** Reported in a time-weighted average (TWA)

Component	CAS-No.	Reference	OSHA		ACGIH	
			ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Acetone	67-64-1		1,000	2,400	500	1,190
			PEL	PEL	TLV	TLV

**VENTILATION SYSTEM:** Local and/or general exhaust is recommended to keep exposure below limits. Local exhaust ventilation is preferred for control of the emissions at its source, preventing dispersion into the general work area. Please refer to the ACGIH document, *Industrial Ventilation: A Manual of Recommended Practices*, for details

**PERSONAL RESPIRATORS:** If exposure limit is exceeded and engineering controls are not feasible, a half-face organic vapor respirator may be worn for up to ten times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier; whichever is lowest. A full-face piece organic vapor respirator may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. For emergencies or instances where the exposure levels are not known, use a full-face, positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres

**SKIN 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:** Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU)

#### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:** Clear, colorless, liquid  
**ODOR:** -  
**SOLUBILITY:** completely miscible  
**pH:** -  
**BOILING POINT:** 56.5°C (133.5°F) @760 mmHg  
**MELTING POINT:** -94°C (-137.5°F)  
**VAPOR PRESSURE (hPa):** 245.3 (at 20°C)  
**MOLECULAR WEIGHT:** 58.08 g mol<sup>-1</sup>  
**RELATIVE DENSITY:** .791 g cm<sup>-3</sup>  
**VISCOSITY:** -

#### SECTION 10: STABILITY AND REACTIVITY

**CHEMICAL STABILITY:** Stable under recommended conditions of use and storage

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

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** No data available

#### SECTION 11: TOXICOLOGICAL INFORMATION

##### TOXICOLOGICAL INFORMATION:

**Acute Toxicity:** Oral rat LD50: 5,800 mg/kg  
Inhalation rat LC50: 50,100 mg/m<sup>3</sup> – 8 h  
Dermal guinea pig LD50: 7,426 mg/kg

**Skin/Eye Irritation:** Skin rabbit: Mild skin irritation – 24 h  
Eyes rabbit: Eye irritation – 24 h

**Carcinogenicity:** This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification

**ROUTES OF ENTRY:** Inhalation/Ingestion/Skin

#### SECTION 12: ECOLOGICAL INFORMATION

##### ECOLOGICAL INFORMATION:

**Toxicity:** Fish LC50 Oncorhynchus mykiss – 5,540 mg/l – 96 h  
Other LC50 Daphnia magna – 8,800 mg/l – 48 h  
Algae No data available

**Persistence and degradability:** 91% - Readily biodegradable

#### SECTION 13: DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL METHOD:** Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dispose of as unused product

#### SECTION 14: TRANSPORT INFORMATION

US DOT	IATA
Shipping Name: Acetone	Shipping Name: Acetone
Hazard Class: 3	Hazard Class: 3
UN Number: 1090	UN Number: 1090
Packing Group: II	Packing Group: II

#### SECTION 15: REGULATORY INFORMATION

<b>SARA 302</b>	-
<b>SARA 313</b>	-
<b>SARA 311/312</b>	Fire Hazard, Acute Health Hazard, Chronic Health Hazard
<b>State</b>	MA: 67-64-1 PA: 67-64-1 NJ: 67-64-1 California Prop. 65:

#### SECTION 16: OTHER INFORMATION

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