

## Acetone

### SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

<b>Trade name</b>	Acetone		
<b>Synonyms</b>	2-propanone, Dimethyl ketone, Ketone propane, beta-Ketopropane.		
<b>Use</b>	Industrial use, Intermediate, Paint and Coatings, Personal care, Pesticide, Pharmaceutical, Process/Extraction Solvent, Raw material for chemical processes, Raw material for cosmetic products, Raw material for industry, Raw material for pharmaceuticals, Solvent		
<b>Company</b>	Sasol Chemicals (USA) LLC (an affiliate of Sasol Chemicals North America LLC)		
<b>Address</b>	12120 Wickchester Lane, Houston, TX 77079		
<b>Telephone</b>	CHEMTREC North America Transportation Emergency (24-hr)		(800) 424 9300
	CHEMTREC World Wide		(703) 527-3887
	Other Emergencies (24-hr)		(337) 494 5142
	SDS and Product Information (8:00am-4:30pm CST)		(281) 588 3491
	Health and Safety Information (7:30am-4:00pm CST)		(281) 588 3492
<b>E-mail address</b>	SasolElectronicSDS@us.sasol.com		

### SECTION 2 HAZARDS IDENTIFICATION

<b>OSHA/GHS Hazards</b>	Flammable liquids	Category 2
	Eye irritation	Category 2A
	Specific target organ toxicity - single exposure	Category 3 (Narcotic effects)

#### LABEL ELEMENTS

##### Hazard symbols



**Signal word** Danger

**Hazard statements** H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.

##### Precautionary statements

## Acetone

---

**Prevention** 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.  
P280 Wear protective gloves/ eye protection/ face protection.  
P264 Wash skin thoroughly after handling.  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P271 Use only outdoors or in a well-ventilated area.

**Response** P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P370 + P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide for extinction.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.  
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P312 Call a POISON CENTER/doctor if you feel unwell.

**Storage** P403 + P405 + P235 Store locked up in a well-ventilated place. Keep cool.

---

### SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

---

<u>Components</u>	<u>CAS-No.</u>	<u>Weight percent</u>
Acetone	67-64-1	99.9

See Section 8 for Exposure Guidelines and Section 15 for Regulatory Classifications.

---

### SECTION 4 FIRST AID MEASURES

---

**Eye contact** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**Skin contact** Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. When symptoms persist or in all cases of doubt seek medical advice. Wash contaminated clothing before re-use.

**Inhalation** Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. In case of shortness of breath, give oxygen. Call a physician immediately.

## Acetone

---

**Ingestion** If swallowed, call a poison control centre or doctor immediately. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

---

## SECTION 5 FIREFIGHTING MEASURES

---

### FLAMMABLE PROPERTIES

**Fire/explosion** Vapours may form explosive mixture with air. Flash back possible over considerable distance. Use water spray to disperse the vapors. NFPA Class 1B flammable liquid.

**Suitable extinguishing media** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Protective equipment and precautions for firefighters** In the event of fire, wear self-contained breathing apparatus.

**Further information** Keep containers and surroundings cool with water spray. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

---

## SECTION 6 ACCIDENTAL RELEASE MEASURES

---

**Methods and materials for containment and cleaning up** Evacuate personnel to safe areas. Remove all sources of ignition. 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 (see section 13). Do not flush into surface water or sanitary sewer system.

---

## SECTION 7 HANDLING AND STORAGE

---

**Safe handling advice** Ensure all equipment is electrically grounded before beginning transfer operations. Keep away from heat and sources of ignition.

**Storage/Transport pressure** Ambient

**Load/Unload temperature** Ambient

---

## SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

---

### ENGINEERING MEASURES

Air contaminant levels should be controlled below the PEL or TLV for this product (see Exposure Guidelines). Ensure adequate ventilation, especially in confined areas. Use explosion-proof equipment.

### PERSONAL PROTECTIVE EQUIPMENT

**Eyes** Chemical resistant goggles must be worn., Face-shield

## Acetone

---

**Skin** Wear suitable protective clothing, gloves and eye/face protection.

**Inhalation** Respiratory protection is normally not required except in emergencies or when conditions cause excessive airborne levels of mists or vapors. Use NIOSH approved respiratory protection.

### EXPOSURE GUIDELINES

<u>Components</u>	<u>Exposure limit(s)</u>
<b>Acetone</b>	OSHA PEL (Permissible Exposure Limit) 1,000 ppm 2,400 mg/m <sup>3</sup> ACGIH TLV (8-hour) 500 ppm ACGIH STEL (Short Term Exposure Limit) 750 ppm

PEL= Permissible Exposure Limits  
TLV= Threshold Limit Value  
EL= Excursion Limit

TWA= Time Weighted Average (8 hr.)  
STEL= Short Term Exposure Limit (15 min.)  
WEEL= Workplace Environmental Exposure Level

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

---

**Appearance** liquid;

**Colour** Clear, colorless

**Form** liquid

**Odour** characteristic

**Odour Threshold** No data available

**Flash point** -17 °C, 1.4 °F;

**Flammability** Upper explosion limit: 13.0 %(V)

Lower explosion limit: 2.5 %(V)

**Boiling point/boiling range** 56 °C, 133 °F;

**Melting point/range** -95.35 °C, -139.6 °F;

**Auto-ignition temperature** 465 °C, 869 °F;

**Decomposition temperature** No data available

**Flammability (solid, gas)** No data available

## Acetone

---

<b>Vapour pressure</b>	240 hPa @ 20 °C, 68 °F;
<b>Vapour density</b>	No data available
<b>Density</b>	0.79 g/cm <sup>3</sup> @ 20 °C, 68 °F;
<b>Relative density</b>	No data available
<b>Water solubility</b>	completely miscible
<b>Viscosity</b>	No data available
<b>Viscosity, dynamic</b>	0.32 mPa.s @ 20 °C, 68 °F;
<b>pH</b>	No data available
<b>Evaporation rate</b>	No data available
<b>Partition coefficient: n-octanol/water</b>	No data available
<b>Volatile organic compounds (VOC) content</b>	Other; See Section 15

---

## SECTION 10 STABILITY AND REACTIVITY

---

<b>Reactivity</b>	Vapours may form explosive mixture with air. Oxidizing agents may form explosive peroxides.
<b>Chemical stability</b>	No decomposition if stored and applied as directed.
<b>Conditions to avoid</b>	Extremes of temperature and direct sunlight. Heat, flames and sparks.
<b>Hazardous decomposition products</b>	In case of fire hazardous decomposition products may be produced such as: Carbon oxides
<b>Materials to avoid</b>	Keep away from oxidizing agents, strongly acid or alkaline materials and amines. Keep away from reducing agents.
<b>Hazardous polymerisation</b>	Hazardous polymerisation does not occur.

---

## SECTION 11 TOXICOLOGICAL INFORMATION

---

<b>Acute dermal toxicity</b>	LD50 Rabbit: > 2,000 mg/kg
------------------------------	----------------------------

**Acetone**

---

	(literature value)
<b>Acute inhalation toxicity</b>	LC50 Rat (4 hours): > 20 mg/l (literature value)
<b>Acute oral toxicity</b>	LD50 Rat: > 2,000 mg/kg (literature value)
<b>Skin corrosion/irritation</b>	(Rabbit) Moderately irritating (literature value)
<b>Serious eye damage/eye irritation</b>	(Rabbit) irritating (literature value)
<b>Respiratory or skin sensitisation</b>	No data available
<b>Germ cell mutagenicity</b>	<b>Genotoxicity in vitro:</b> Type: Ames test System: Salmonella typhimurium; with and without metabolic activation Result: In vitro tests did not show mutagenic effects (literature value)  <b>Genotoxicity in vivo:</b> No data available  <b>Assessment Mutagenicity:</b> Based on available data, the classification criteria are not met.
<b>Reproductive toxicity</b>	<b>Reproductive toxicity:</b> No data available  <b>Assessment Reproductive toxicity:</b> No data available  <b>Teratogenicity:</b> No data available  <b>Assessment teratogenicity:</b> No data available
<b>STOT - single exposure</b>	The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.
<b>STOT - repeated exposure</b>	No data available

## Acetone

---

**Aspiration toxicity** No data available

**Carcinogenicity** **Assessment carcinogenicity:**  
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.

---

### SECTION 12 ECOLOGICAL INFORMATION

---

**Toxicity to fish** LC50 (Oncorhynchus mykiss (rainbow trout)) 96 hours: > 100 mg/l; static test (literature value)

**Toxicity to aquatic invertebrates** EC50 (Daphnia magna (Water flea)) 48 hours: > 100 mg/l; static test (literature value)

**Toxicity to algae** EC50 (Pseudokirchneriella subcapitata (green algae)) 96 hours: > 100 mg/l; static test (literature value)

**Chronic toxicity to aquatic invertebrates** NOEC (Daphnia magna (Water flea)) 28 d: > 100 mg/l; flow-through test (literature value)

**Biodegradation** Readily biodegradable.  
OECD Test Guideline 301B (28 d): > 60 % (literature value)

**Bioaccumulative potential** No data available

**Mobility in soil** No data available

**Other adverse effects** No data available

---

### SECTION 13 DISPOSAL CONSIDERATIONS

---

**Waste Code** F003 (RQ 5,000 Lbs)D001 - Ignitability (RQ 100 LB). Re-evaluation of the product may be required by the user at the time of disposal, since the product uses, transformations, mixtures, contamination, and spillage may change the classification.

**Disposal methods** Dispose of only in accordance with local, state, and federal regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil.

## Acetone

---

**Empty containers.** Empty containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Empty drums should be completely drained, triple-rinsed, properly bunged and promptly returned to a drum reconditioner, or properly disposed.

### SECTION 14 TRANSPORT INFORMATION

---

- DOT** UN 1090, Acetone, 3, II  
When shipped in quantities greater than 5,000 lbs, RQ must be added to the shipping description.
- IATA** UN 1090, Acetone, 3, II  
When shipped in quantities greater than 5,000 lbs, RQ must be added to the shipping description.
- IMDG** UN 1090, Acetone, 3, II  
When shipped in quantities greater than 5,000 lbs, RQ must be added to the shipping description.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

**Remarks** No data available

### SECTION 15 REGULATORY INFORMATION

---

#### U.S. FEDERAL REGULATIONS

##### TSCA Inventory Listing

###### Components

Acetone

###### CAS-No.

67-64-1

All chemical substances in this product are either on the TSCA Active Inventory, or in compliance with the inventory.

##### SARA 302 Status

###### Components

###### CAS-No.

###### Weight percent

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

##### SARA 311/312 Classification

Should this product meet EPCRA 311/312 Tier reporting criteria of 40 CFR 370, refer to Section 2 of this SDS for appropriate classification and Section 3 for components that meet the hazardous classification.

##### SARA 313 Chemical

###### Components

Acetaldehyde

###### CAS-No.

75-07-0

###### Weight percent

10 - 60 PPM



## Acetone

---

### US. EPA CERCLA Hazardous Substances (40 CFR 302)

#### Components

	<u>Reportable Quantity</u>	<u>Weight percent</u>
Acetone	5,000 LB	99.9 %
Acetaldehyde	1,000 LB	10 - 60 PPM

### INTERNATIONAL REGULATIONS

#### WHMIS Classification

Flammable liquids	Category 2
Eye irritation	Category 2A
Specific target organ toxicity - single exposure	Category 3 (Narcotic effects)

#### European Union

Classification according to Regulation (EU) 1272/2008.

Flammable liquids, Category 2

Eye irritation, Category 2

Specific target organ toxicity - single exposure, Category 3 (Narcotic effects)

<b>Australia. Inventory of Chemical Substances (AICS)</b>	Listed
<b>Japan. Inventory of Existing and New Chemical Substances (ENCS)</b>	Listed
<b>Japan. ISHL - Inventory of Chemical Substances</b>	Listed
<b>Canada. Domestic Substances List (DSL) Inventory</b>	Listed
<b>Canada. Non-Domestic Substance Listing (NDSL)</b>	Not listed
<b>Philippines. Inventory of Chemicals / Chemical Substances (PICCS)</b>	Listed
<b>Korea. Existing Chemicals Inventory (KECI)</b>	Listed
<b>China. Inventory of Existing Chemical Substances (IECSC)</b>	Listed
<b>Mexico. National Inventory of Chemical Substances (INSQ)</b>	Listed
<b>New Zealand. Inventory of Chemical Substances (NZIoC)</b>	Listed
<b>Switzerland. Inventory of Notified New Substances (CHINV)</b>	Listed
<b>Taiwan. National Existing Chemical Inventory (NECI)</b>	Listed

**Please note: The names and CAS numbers which are used for this product in the stated inventories may deviate from the information which is listed in Section 3.**

## Acetone

---

### STATE REGULATIONS

#### California Prop. 65

Components  
Acetaldehyde

CAS-No.  
75-07-0

#### Clean Air Act

This product contains the following VOC exemptions listed under the U.S. Clean Air Act Section 450.

Acetone 60 FR 31633 June 16, 1995

---

### **SECTION 16            OTHER INFORMATION**

---

#### HAZARD RATINGS

	<u>Health</u>	<u>Flammability</u>	<u>Physical Hazard/ Instability</u>
<b>HMIS®</b>	2	3	0
<b>NFPA</b>	2	3	0

THE DATA AND INFORMATION CONTAINED HEREIN ARE BEING FURNISHED FOR INFORMATIONAL PURPOSES ONLY, UPON THE EXPRESS CONDITION THAT EACH CUSTOMER SHALL MAKE ITS OWN ASSESSMENT OF APPROPRIATE USE AND APPROPRIATE SHIPPING, TRANSFER AND STORAGE MATERIALS AND PROCEDURES FOR SASOL CHEMICALS (USA) LLC'S PRODUCTS. ALTHOUGH BASED ON INFORMATION SOURCES WHICH SASOL CHEMICALS (USA) LLC CONSIDERS ACCURATE AND RELIABLE, SASOL CHEMICALS (USA) LLC MAKES NO WARRANTY, EITHER EXPRESS OR IMPLIED, INCLUDING ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, REGARDING THE VALIDITY OF THIS INFORMATION, THE INFORMATION SOURCES UPON WHICH THE SAME ARE BASED, OR THE RESULTS TO BE OBTAINED, AND EXPRESSLY DISCLAIMS LIABILITIES FOR DAMAGES OR INJURIES RESULTING FROM THE USE THEREOF.

---