



Acetone

# Material Safety Data Sheet

## SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

<b>Trade name</b>	Acetone		
<b>Synonyms</b>	2-propanone, Dimethyl ketone, Ketone propane, beta-Ketopropane.		
<b>Manufacturer/Supplier</b>	SASOL CHEMICALS NORTH AMERICA LLC (An affiliate of Sasol North America Inc.)		
<b>Address</b>	900 Threadneedle, 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	
	MSDS and Product Information (8:00am-4:30pm CST)	(281) 588-3491	
	Health and Safety Information (8:00am-4:00pm CST)	(281) 588-3492	

## SECTION 2 COMPOSITION AND INFORMATION ON INGREDIENTS

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

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

## SECTION 3 HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

**Appearance** Clear, colorless Liquid

**Odor** Pungent

**Precautions** **DANGER!** EXTREMELY FLAMMABLE LIQUID AND VAPOR MAY CAUSE EYE, SKIN AND RESPIRATORY IRRITATION. Keep away from heat and flame. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Keep container closed. Use only with adequate ventilation.

**Environmental precautions** Do not flush into surface water or sanitary sewer system. Non-toxic to aquatic life. Readily biodegradable.

### POTENTIAL HEALTH EFFECTS

**Eyes** Irritating to eyes.



## Acetone

**Skin** Repeated or prolonged contact can cause redness, irritation and scaling of the skin (dermatitis). Normal care and personal hygiene should prevent skin effects. The product may be absorbed through the skin.

**Inhalation** Irritation of the nose and throat, dizziness, and headache.

**Ingestion** Aspiration (breathing) into lungs, caused while vomiting, may result in severe pulmonary injury. Depression of central nervous system can occur. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

(See Section 11 for Toxicological Information)

## 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. If breathing is difficult, give oxygen. Call a physician immediately.

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

## SECTION 5 FIRE FIGHTING MEASURES

### FLAMMABLE PROPERTIES

**Flash point** -20 °C closed cup -4 °F

**Autoignition temperature** 465 °C 869 °F

**Flammable limits in air % by volume** **Lower explosion limit:** 2.6 %(V)  
**Upper explosion limit:** 12.8 %(V)

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

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

**Fire fighting instructions** Self-contained breathing apparatus (SCBA) and structural firefighter's protective clothing will provide limited protection.



## Acetone

**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

**Steps to be taken in case of spill or leak** Evacuate personnel to safe areas. Remove all sources of ignition. Contain and collect spillage 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.

**Storage/Transport pressure** Ambient.

**Further information on storage conditions** Keep away from heat and sources of ignition.

## 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). Mechanical ventilation may be necessary if working with this product in enclosed areas and/or at elevated temperatures. Use explosion-proof equipment.

### PERSONAL PROTECTIVE EQUIPMENT

**Eyes** When contact with liquid is possible, use a face shield and/or chemical splash goggles. Otherwise use safety glasses with side shields or goggles.

**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. NIOSH-approved organic vapor air-purifying respirator, self-contained breathing apparatus, or air-supplied respirators where there may be potential for overexposure.



## Acetone

### EXPOSURE GUIDELINES

Components	Exposure limit(s)
<b>Acetone</b>	OSHA PEL 1,000 ppm
	ACGIH TLV (8-hour) 500 ppm
	ACGIH STEL 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

**Odour** Pungent

**Form** Liquid

**Boiling point/range** 56.2 °C 132.2 °F

**Vapour pressure** 186.2 mm Hg @ 20 °C

**Vapor density** 2

**Solubility (water)** Easily soluble.

**Viscosity** 0.4 cSt @ 20 °C

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

**Density** 0.79 g/cm<sup>3</sup>

## SECTION 10 STABILITY AND REACTIVITY

**Conditions to avoid** Keep away from heat and sources of ignition.

**Hazardous decomposition products** Combustion products include carbon dioxide, carbon monoxide and possibly other unidentified organic compounds.

**Incompatibility with other materials** Can react with strong oxidizers, inorganic acids, and halogens.

**Hazardous polymerization** None.



## Acetone

---

## SECTION 11 TOXICOLOGICAL INFORMATION

**Eyes** Severe irritant bases on standard Draize tests

**Skin** .  
Acute dermal LD50 (rabbit): 20,000 mg/kg

**Inhalation** Acute 8 hours LC50 (rat): 50,100 mg/m<sup>3</sup>

**Ingestion** Acute oral LD50(rat): 5,800 mg/kg

### CARCINOGENICITY

This product contains no carcinogenic substances.

## SECTION 12 ECOLOGICAL INFORMATION

**Aquatic toxicity** Non-toxic to aquatic life.

(Trout) 96 hours 5,540 mg/l  
(Goldfish) 24 hours 5,000 mg/l  
(Bluegill sunfish) 96 hours 8,300 mg/l

(Shrimp) 24 hours 2,100 mg/l  
(Daphnia) 48 hours 10 mg/l

**Biodegradation** Readily biodegradable.

## SECTION 13 DISPOSAL CONSIDERATIONS

**Waste code** F003 (RQ 5,000 Lbs)

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

**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 description** Acetone, 3, UN 1090, II



## Acetone

**IATA description** Acetone, 3, UN 1090, II  
**IMDG description** Acetone, 3, UN 1090, II

## SECTION 15 REGULATORY INFORMATION

### U.S. FEDERAL REGULATIONS

#### **OSHA classification**

Flammable liquid, Eye irritant

#### **TSCA Inventory Listing**

##### Components

##### CAS-No.

Acetone	67-64-1
---------	---------

#### **SARA 302 Status**

##### Components

##### CAS-No.

##### Weight %

Contains no chemicals subject to SARA 302 reporting.

#### **SARA 311/312 Classification**

"Fire hazard", "Immediate (acute) health hazard"

#### **SARA 313 Chemical**

##### Components

##### CAS-No.

##### Weight %

Contains no chemicals subject to SARA 313 reporting.

#### **CERCLA Hazardous Substance**

##### Components

##### CERCLA RQ

##### Weight %

Acetone	5,000 LB	99.9
---------	----------	------

### INTERNATIONAL REGULATIONS

#### **Workplace Hazardous Materials Information System (WHMIS) Classification**

Class B, Division 2: Flammable liquid.

Class D, Division 2, Subdivision B: Toxic material.

#### **Australian Inventory of Chemical Substances (AICS) Listing**

Listed on the AICS.

#### **Japanese Minister of International Trade and Industry (MITI) Inventory Listing**

Listed on MITI.



## Acetone

---

### **Canadian Domestic Substance List (DSL) Inventory Listing**

Listed on the DSL.

### **European Inventory of Existing Commercial Chemical Substances (EINECS) Listing**

Listed on EINECS.

### **Phillipines Inventory List (PICCS)**

Listed on PICCS.

### **Korean Inventory List**

Listed on the ECL.

### **China Inventory List**

Listed on the China inventory.

## **STATE REGULATIONS**

### **California Safe Drinking Water Act (Prop 65) Listing**

#### Components

#### CAS-No.

Contains no chemical subject to California Prop 65.

---

## **SECTION 16 OTHER INFORMATION**

### **HAZARD RATINGS**

	<u>Health</u>	<u>Flammability</u>	<u>Reactivity</u>
<b>HMIS</b>	1	3	0
<b>NFPA</b>	1	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 NORTH AMERICA'S PRODUCTS. ALTHOUGH BASED ON INFORMATION SOURCES WHICH SASOL NORTH AMERICA CONSIDERS ACCURATE AND RELIABLE, SASOL NORTH AMERICA 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.

---