



# Safety Data Sheet

## Acetone

Version 1.16

Revision Date 17.10.2024

### SECTION 1. Identification of the substance/mixture and of the company/undertaking

#### Product identifier

**Trade name** Acetone

**Synonyms** Acetone

**Product code** 2110

**CAS-No.** 67-64-1

#### Relevant identified uses of the substance or mixture and uses advised against

**Use** Industrial use. Solvent

#### Manufacturer or supplier's details

**Company** Sasol Chemicals, a division of Sasol South Africa (Pty) Ltd

**Address** Sasol Place, 50 Katherine Street  
Sandton  
2090  
South Africa

**Telephone** +27103445000

**E-mail address** sasolchem.info.sa@sasol.com

**Supplier's details** Sasol (China) Chemical Co., Ltd  
Nanjing Chemical Industry Park  
No.68, Fangshui Road  
Nanjing 210047  
China

**Telephone** +86 25 5839 1111

**E-mail address** info.sg@sasol.com

#### Emergency Phone Number

**Emergency telephone number** +44 (0)1235 239 670 (Europe, Israel, Africa, Americas)

+44(0)1235 239 671 (Middle East, Arabic African countries)

+65 3158 1074 (Asia Pacific)

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+86 400 120 6011 (China)  
 +27 (0)17 610 4444 (South Africa)  
 0800 112 890 RSA-Local only  
 +61 (2) 8014 4558 (Australia)

### SECTION 2. Hazards identification

#### Classification of the substance or mixture

#### GHS Classification

<b>Classification</b>	<b>CHINA. MEM GHS Classification list (Mandatory) (SAWS No. 2015-80, Aug 19,2015, amended through MEM Notice 2022-300, 5 Dec 2022)</b>	
	Flammable liquids	Category 2
	Serious eye damage/eye irritation	Category 2A
	Specific target organ toxicity - single exposure	Category 3

#### GHS label elements

Hazard pictograms :  

Signal word : Danger

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

Precautionary statements : **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 non-sparking tools.  
 P243 Take action to prevent static discharges.  
 P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
 P264+P265 Wash hands thoroughly after handling. Do not touch eyes.

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P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.?

#### Response:

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.

P319 Get medical help if you feel unwell.

P337 + P317 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.

#### Storage:

P403 + P233 + P235 Store in a well-ventilated place. Keep container tightly closed. Keep cool.

P405 Store locked up.

#### Disposal:

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

#### Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 3. Composition/information on ingredients

### HAZARDOUS INGREDIENTS

#### Acetone

**Contents:** >= 99.90 % W/W

**CAS-No.** 67-64-1

**Index-No.** 606-001-00-8

**EC-No.** 200-662-2

**Hazard statements** H225 H319 H336

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### SECTION 4. First aid measures

#### Description of necessary first-aid measures

<b>Inhalation</b>	Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before re-use. If skin irritation persists, call a physician.
<b>Eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
<b>Ingestion</b>	If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

#### Most important symptoms/effects, acute and delayed

Refer to SECTION 11

### SECTION 5. Firefighting measures

<b>Suitable extinguishing media</b>	Water spray. Alcohol-resistant foam Dry chemical Carbon dioxide (CO <sub>2</sub> )
<b>Unsuitable extinguishing media</b>	No information available.
<b>Special hazards arising from the substance or mixture</b>	Flash back possible over considerable distance. Vapours may form explosive mixtures with air.
<b>Special protective equipment for firefighters</b>	Wear self-contained breathing apparatus and protective suit.

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### SECTION 6. Accidental release measures

<b>Personal precautions</b>	Keep people away from and upwind of spill/leak. Remove all sources of ignition. Use non-sparking tools. Do not breathe vapours or spray mist. Ensure adequate ventilation.
<b>Environmental precautions</b>	Should not be released into the environment. Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate ground water system. Do not flush into surface water or sanitary sewer system.
<b>Methods for cleaning up</b>	Soak up with inert absorbent material and dispose of as hazardous waste.
<b>Reference to other sections</b>	Refer to Section 8 and 13

### SECTION 7. Handling and storage

<b>Safe handling advice</b>	Provide sufficient air exchange and/or exhaust in work rooms. Wear personal protective equipment. Take precautionary measures against static discharges. Ensure all equipment is electrically grounded before beginning transfer operations.
<b>Advice on protection against fire and explosion</b>	Keep away from open flames, hot surfaces and sources of ignition. Use explosion-proof equipment.
<b>Temperature class</b>	T1
<b>Requirements for storage areas and containers</b>	Keep container tightly closed in a dry and well-ventilated place. Keep away from heat. Keep away from direct sunlight.
<b>Advice on common storage</b>	Keep containers tightly closed in a cool, well-ventilated place.

### SECTION 8. Exposure controls/personal protection

#### Components with workplace control parameters

#### NATIONAL OCCUPATIONAL EXPOSURE LIMITS

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Components	Type	Control parameters	Update	Basis
ACETONE	PC-TWA	300 mg/m <sup>3</sup>	03 2008	China OELs
ACETONE	STEL	450 mg/m <sup>3</sup>	03 2008	China OELs

### Exposure controls

#### Engineering measures

Provide sufficient air exchange and/or exhaust in work rooms.

#### Personal protective equipment

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

**Hand protection** Gloves suitable for permanent contact.:  
Material: butyl-rubber  
Break through time: 4 h  
Material thickness: 0.5 mm

**Eye protection** Safety glasses with side-shields

**Skin and body protection** Protective suit. Safety shoes

**Hygiene measures** Wash hands before breaks and immediately after handling the product. Take off all contaminated clothing immediately.

## SECTION 9. Physical and chemical properties

### Information on basic physical and chemical properties

<b>Form</b>	Liquid
<b>State of matter</b>	Liquid; at 20 °C; 1,013 hPa
<b>Colour</b>	Colourless
<b>Odour</b>	characteristic
<b>Odour Threshold</b>	No data available
<b>pH</b>	Not applicable
<b>Melting point/range</b>	-95 °C
<b>Boiling point/boiling range</b>	56 °C; ASTM D86

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<b>Flash point</b>	-20 °C; ASTM D 93; closed cup;
<b>Evaporation rate</b>	No data available
<b>Flammability (solid, gas)</b>	No data available
<b>Auto-ignition temperature</b>	No data available
<b>Decomposition Temperature</b>	No data available
<b>Lower explosion limit</b>	2.5 %(V)
<b>Upper explosion limit</b>	14.3 %(V)
<b>Vapour pressure</b>	378 hPa; 30 °C
<b>Relative vapour density</b>	No data available
<b>Density</b>	0.789 g/cm <sup>3</sup> ; 20 °C; ASTM D4052
<b>Water solubility</b>	soluble
<b>Viscosity, kinematic</b>	0.4 mm <sup>2</sup> /s; 20 °C; ASTM D 445

#### SECTION 10. Stability and reactivity

<b>Reactivity</b>	Stable under recommended storage conditions.
<b>Chemical stability</b>	Stable
<b>Possibility of hazardous reactions</b>	Hazardous polymerisation does not occur.
<b>Conditions to avoid</b>	Extremes of temperature and direct sunlight. Heat, flames and sparks.
<b>Materials to avoid</b>	Strong oxidizing agents Incompatible with acids. Halogenated compounds
<b>Hazardous decomposition products</b>	Carbon oxides

#### SECTION 11. Toxicological information

<b>Acute oral toxicity</b>	Acetone: LD50 Rat: > 2,000 mg/kg; (literature value)
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<b>Acute inhalation toxicity</b>	Acetone: LC50 Rat: 4 h; vapour; > 20 mg/l; GLP: no; (literature value)
<b>Acute dermal toxicity</b>	Acetone: LD50 Rabbit: > 2,000 mg/kg; (literature value)
<b>Skin irritation</b>	Acetone: Rabbit: irritating; GLP: no; (literature value)
<b>Eye irritation</b>	Acetone: Rabbit: irritating GLP: no; (literature value)
<b>Mutagenicity</b>	Acetone: Ames test: Salmonella typhimurium; Not mutagenic; GLP: no; (literature value)

## SECTION 12. Ecological information

<b>Toxicity to daphnia and other aquatic invertebrates</b>	Acetone: static test; Daphnia magna (Water flea); 48 h; > 100 mg/l(literature value)
<b>Biodegradability</b>	Acetone: Readily biodegradable.; (literature value)

## SECTION 13. Disposal considerations

<b>Product</b>	Disposal should be in accordance with local, regional and national legislations.
<b>Packaging</b>	Dispose of spent product packaging responsibly and lawfully with due consideration for health, safety and the environment.

## SECTION 14. Transport information

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### DG Pictogram



### ADR

**UN number:** 1090  
**Class:** 3  
**Packaging group:** II; F1;  
**Proper shipping name:** ACETONE

### RID

**UN number:** 1090  
**Class:** 3  
**Packaging group:** II; F1  
**Proper shipping name:** ACETONE

### ADNR

**UN number:** 1090  
**Class:** 3  
**Packaging group:** II; F1  
**Proper shipping name:** ACETONE

### IMDG

**UN number:** 1090  
**Class:** 3  
**EmS:** F-E, S-D  
**Packaging group:** II  
**Proper shipping name:** ACETONE

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<b>Marine pollutant</b>	Not a Marine Pollutant
<b>ICAO/IATA</b>	
<b>UN number :</b>	1090
<b>Class:</b>	3
<b>Packaging group:</b>	II
<b>Proper shipping name:</b>	ACETONE
<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Acetone Pollution Category: Z

### SECTION 15. Regulatory information

#### Safety, health and environmental regulations/legislation specific for the substance or mixture

<b>Canada. DSL - Domestic Substances List, part of CEPA</b>	All chemical constituents are listed in: Canada. DSL - Domestic Substances List, part of CEPA (See chapter 3)
<b>Australia. AICS - Australian Inventory of Chemical Substances</b>	All chemical constituents are listed in: Australia. AICS - Australian Inventory of Chemical Substances (See chapter 3)
<b>New Zealand Inventory of Chemical Substances</b>	All chemical constituents are listed in: New Zealand Inventory of Chemical Substances (See chapter 3)
<b>Japan. ENCS - Existing and New Chemical Substances Inventory</b>	All chemical constituents are listed in: Japan. ENCS - Existing and New Chemical Substances Inventory (See chapter 3)
<b>Japan. Industrial Safety and Health Law - Inventory</b>	All chemical constituents are listed in: Japan. Industrial Safety and Health Law - Inventory (See chapter 3)
<b>Korea. KECI - Korean Existing Chemicals Inventory</b>	All chemical constituents are listed in: Korea. KECI - Korean Existing Chemicals Inventory (See chapter 3)
<b>Philippines. PICCS - Philippines Inventory of Chemicals and Chemical Substances</b>	All chemical constituents are listed in: Philippines. PICCS - Philippines Inventory of Chemicals and Chemical Substances (See chapter 3)

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chapter 3)

### **China. IECSC - Inventory of Existing Chemical Substances in China**

All chemical constituents are listed in: China. IECSC - Inventory of Existing Chemical Substances in China (See chapter 3)

### **Taiwan. Chemical Substances Inventory (TCSI)**

All chemical constituents are listed in: Taiwan. Chemical Substances Inventory (TCSI) (See chapter 3)

### **USA TSCA Inventory**

All chemical constituents are listed in: USA TSCA Inventory (See chapter 3)

## **SECTION 16. Other information**

### **Full text of H-Statements**

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

All reasonable efforts were exercised to compile this SDS in accordance with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS). The SDS only provides information regarding the health, safety and environmental hazards at the date of issue, to facilitate the safe receipt, use and handling of this product in the workplace and does not replace any product information or product specifications. Since Sasol and its subsidiaries cannot anticipate or control all conditions under which this product may be handled, used and received in the workplace, it remains the obligation of each user, receiver or handler to, prior to usage, review this SDS in the context within which this product will be received, handled or used in the workplace. The user, handler or receiver must ensure that the necessary mitigating measures are in place with respect to health and safety. This does not substitute the need or requirement for any relevant risk assessments to be conducted. It further remains the responsibility of the receiver, handler or user to communicate such information to all relevant parties that may be involved in the receipt, use or handling of this product.

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