



Safety Data Sheet

Acetone

Version 1.01

Revision Date 30.03.2021

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

Product identifier

Trade name

Acetone

Synonyms

2-Propanone, methyl ketone, Ketone propane, beta-Ketopropane

Product code

2110

CAS-No.

67-64-1

EINECS-No.

200-662-2

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 Ltd

Address

Sasol Place, 50 Katherine Street
Sandton
2090
South Africa

Telephone

+27103445000

E-mail address

sasolchem.info.sa@sasol.com

Emergency telephone

+44 (0)1235 239 670 (Europe, Israel, Africa, Americas)

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

+65 3158 1074 (Asia Pacific)

+86 400 120 6011 (China)

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+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

Classification	<p>Hazardous Substances (Classification) Regulations 2001, Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001, Approved Code of Practice on Labelling of Hazardous Substances (HSNO CoP 10-1 08-07), EPA User Guide to Thresholds and Classifications under the Hazardous Substances and New Organisms Act 1996, EPA Labelling of Hazardous Substances: Hazard and Precautionary Information (GHS 2007)</p> <p>Flammable Liquids 3.1B</p> <p>Acute toxicity (Oral) 6.1E</p> <p>Skin irritation 6.3B</p> <p>Eye irritation 6.4A</p>
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GHS label elements

Hazard pictograms :



Signal Word :

Danger

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- Hazard Statements : H225 Highly flammable liquid and vapor.
H303 May be harmful if swallowed.
H316 Causes mild skin irritation.
H319 Causes serious eye irritation.
- 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 only non-sparking tools.
P243 Take precautionary measures against static discharge.
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/ protective clothing/ eye
protection/ face protection.
- Response:**
P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off
immediately all contaminated clothing. Rinse skin with water/
shower.
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.
P332 + P313 If skin irritation occurs: Get medical advice/
attention.
P337 + P313 If eye irritation persists: Get medical advice/



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attention.

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

Storage:

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

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.

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SECTION 3. Composition/information on ingredients

Substance

Acetone

Contents: ≥ 90.00 - ≤ 100.00 %W/W

CAS-No. 67-64-1

Index-No. 606-001-00-8

EC-No. 200-662-2

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4. First aid measures

Description of necessary first-aid measures

Inhalation

Move to fresh air in case of accidental inhalation of vapors. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.

Skin contact

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.

Eye contact

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

Ingestion

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.

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Most important symptoms/effects, acute and delayed

Refer to SECTION 11

SECTION 5. Firefighting measures

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

SECTION 6. Accidental release measures

Personal precautions	Keep people away from and upwind of spill/leak. Remove all sources of ignition. Do not breathe vapors or spray mist. Ensure adequate ventilation.
Environmental precautions	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.



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Methods for cleaning up Soak up with inert absorbent material and dispose of as hazardous waste.

Reference to other sections Refer to Section 8 and 13

SECTION 7. Handling and storage

Safe handling advice 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.

Advice on protection against fire and explosion Keep away from open flames, hot surfaces and sources of ignition. Use explosion-proof equipment.

Temperature class T1

Requirements for storage areas and containers Keep container tightly closed in a dry and well-ventilated place. Keep away from heat. Keep away from direct sunlight.

Advice on common storage Keep containers tightly closed in a cool, well-ventilated place.

SECTION 8. Exposure controls/personal protection

Ingredients with workplace control parameters

NATIONAL OCCUPATIONAL EXPOSURE LIMITS

Components	Type	Control parameters	Update	Basis
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ACETONE	TWA	1,185 mg/m ³	02 2013	New Zealand WES
ACETONE	TWA	500 ppm	02 2013	New Zealand WES
ACETONE	STEL	2,375 mg/m ³	02 2013	New Zealand WES
	STEL	1,000 ppm	02 2013	New Zealand WES

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

Form Liquid

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State of matter	Liquid; at 20 ° C; 1,013 hPa
Color	Colorless
Odor	characteristic
Odor Threshold	No data available
Melting point/range	-95 ° C
Boiling point/boiling range	56 ° C
Flash point	-20 ° C; closed cup
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Autoignition temperature	465 ° C
Decomposition Temperature	
Lower explosion limit	2.6 %(V)
Upper explosion limit	12.8 %(V)
Vapor pressure	307 hPa; 25 ° C
Relative vapor density	2
Density	0.79 g/cm ³
Water solubility	soluble
Viscosity, dynamic	0.32 mPa.s
Viscosity, kinematic	0.4 mm ² /s

SECTION 10. Stability and reactivity

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Reactivity	Stable under recommended storage conditions.
Chemical stability	No data available
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Extremes of temperature and direct sunlight. Heat, flames and sparks.
Materials to avoid	Strong oxidizing agents Incompatible with acids. Halogenated compounds
Hazardous decomposition products	Carbon oxides

SECTION 11. Toxicological information

Acute oral toxicity	Acetone: LD50 Rat: > 2,000 mg/kg; (literature value)
Acute inhalation toxicity	Acetone: LC50 Rat: 4 h; vapor; > 20 mg/l; GLP: no; (literature value)
Acute dermal toxicity	Acetone: LD50 Rabbit: > 2,000 mg/kg; (literature value)
Skin irritation	Acetone: Rabbit: irritating; GLP: no; (literature value)
Eye irritation	Acetone: Rabbit: irritating GLP: no; (literature value)
Mutagenicity	Acetone:

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Ames test: Salmonella typhimurium; Not mutagenic; GLP: no;
(literature value)

SECTION 12. Ecological information

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

SECTION 13. Disposal considerations

Product	In accordance with local and national regulations. Do not contaminate ponds, waterways or ditches with chemical or used container. The product should not be allowed to enter drains, water courses or the soil.
Packaging	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



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UN number: 1090
Class: 3
EmS: F-E, S-D
Packaging group: II
Proper shipping name: ACETONE
Marine pollutant Not a Marine Pollutant

ICAO/IATA

UN number : 1090
Class: 3
Packaging group: II
Proper shipping name: ACETONE
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Acetone
Pollution Category: Z

SECTION 15. Regulatory information

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

Canada. DSL - Domestic Substances List, part of CEPA

All chemical constituents are listed in: Canada. DSL - Domestic Substances List, part of CEPA (See chapter 3)



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Australia. AICS - Australian Inventory of Chemical Substances

All chemical constituents are listed in: Australia. AICS - Australian Inventory of Chemical Substances (See chapter 3)

New Zealand Inventory of Chemical Substances

All chemical constituents are listed in: New Zealand Inventory of Chemical Substances (See chapter 3)

Japan. ENCS - Existing and New Chemical Substances Inventory

All chemical constituents are listed in: Japan. ENCS - Existing and New Chemical Substances Inventory (See chapter 3)

Japan. Industrial Safety and Health Law - Inventory

All chemical constituents are listed in: Japan. Industrial Safety and Health Law - Inventory (See chapter 3)

Korea. KECI - Korean Existing Chemicals Inventory

All chemical constituents are listed in: Korea. KECI - Korean Existing Chemicals Inventory (See chapter 3)

Philippines. PICCS - Philippines Inventory of Chemicals and Chemical Substances

All chemical constituents are listed in: Philippines. PICCS - Philippines Inventory of Chemicals and Chemical Substances (See 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.



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This substance contains no components with H-statement.

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.

Although all reasonable efforts were exercised in the compilation of this SDS, Sasol does not expressly warrant the accuracy of, or assume any liability for incomplete information contained herein or any advice given. When this product is sold, risk passes to the purchaser in accordance with the specific terms and conditions of sale.