



Safety Data Sheet

Acetone

Version 1.01

Revision Date 29.03.2021

Material Safety Data Sheet

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

Trade name	Acetone	
Synonyms	2-Propanone, methyl ketone, Ketone propane, beta-Ketopropane	
Use	Industrial use. Solvent	
Company	Sasol Chemicals, a division of Sasol South Africa Ltd Sasol Place, 50 Katherine Street Sandton 2090 South Africa +27103445000	
Telephone	CHEMTREC North America Transport Emergency (24-hr)	(800) 424-9300
	CHEMTREC World Wide Transport Emergency (24-hr)	(703) 527-3887
	MSDS and Product Information (8:00am-4:30pm CST)	(281) 588-3315
	Sasol LCCC Main Gate Guard	(337) 494-5142
E-mail address	SasolElectronicSDS@us.sasol.com	

SECTION 2 Hazards identification

Classification of the substance or mixture

Classification	GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)	
	Flammable liquids	Category 2
	Eye irritation	Category 2A

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GHS label elements

Hazard pictograms :



Signal Word :

Danger

Hazard Statements :

H225 Highly flammable liquid and vapor.
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/ eye protection/ face protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): 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.

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 to extinguish.



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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

None known.

SECTION 3 Composition/information on ingredients

<u>Components</u>	<u>CAS-No.</u>	<u>Weight %</u>
Acetone	67-64-1	>= 90.00 - <= 100.00

Exposure limit(s): See chapter 8

Classification and hazard labeling: See chapter 15

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. Wash contaminated clothing before re-use. If skin irritation persists, call a physician.

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.



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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.

SECTION 5 Fire-fighting measures

- Fire/explosion** Flash back possible over considerable distance. Vapors may form explosive mixtures with air.
- Hazardous combustion products** Carbon oxides
- Suitable extinguishing media** Water spray
Alcohol-resistant foam
Dry chemical.
Carbon dioxide.
- Unsuitable extinguishing media** No information available.
- Protection measures and instructions** Wear self-contained breathing apparatus and protective suit.
- Further information** Cool containers/tanks with water spray.

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.

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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.

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

Exposure controls/personal protection: See chapter 8

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.

Storage Keep container tightly closed in a dry and well-ventilated place. Keep away from heat. Keep away from direct sunlight.

Further information on storage conditions Keep containers tightly closed in a cool, well-ventilated place.



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SECTION 8 Exposure controls/personal protection

Engineering measures

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

Personal protective equipment

Eyes Safety glasses with side-shields

Skin Protective suit Safety shoes

Inhalation 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

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

Protective measures Wear suitable protective equipment.

Exposure Guidelines

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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

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State of matter Liquid

Color Colorless

Odor characteristic

Form Liquid

Boiling point/boiling range 56 ° C

Flash point -20 ° C closed cup

Decomposition

Temperature

Lower explosion limit 02.6 %(V)

Upper explosion limit 12.8 %(V)

Vapor pressure 307 hPa at 25 ° C

Solubility(ies) soluble

Viscosity 0.4 mm²/s

Viscosity, dynamic 0.32 mPa.s

Melting point/range -95 ° C

Density 0.79 g/cm³

SECTION 10 Stability and reactivity

Reactivity Stable under recommended storage conditions.

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

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

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SECTION 12 Ecological information

Ecotoxicity effects

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

Waste Classification US. EPA Resource Conservation and Recovery Act: (RCRA) D List of Characteristic Hazardous Wastes (40 CFR 261.21-24): D001

Waste from residues / unused products 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.

Uncleaned empty packaging Do not burn, or use a cutting torch on, the empty drum. Triple rinse containers. Can be offered for recycling, re-conditioning or puncture.

Handling and storage: See chapter 7

Exposure controls/personal protection: See chapter 8

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SECTION 14 Transport information

DG Pictogram



DOT/49CFR UN 1090 ACETON, 3, II

IMDG UN 1090 ACETONE, 3, II; EmS F-E, S-D

ICAO/IATA UN 1090 ACETONE, 3, II

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Acetone
Marine pollutant Pollution Category: Z
 Not a Marine Pollutant

SECTION 15 Regulatory information

U.S. Federal Classifications:

OSHA Hazards Flammable liquid, Mild eye irritant

SARA 311/312 Fire Hazard, Acute Health Hazard

U.S. Regulated Ingredients:

Hazard information reporting

US. Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105 Code of Massachusetts Regulations Section 670.000)

Components

Acetone

CAS-No.

67-64-1



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US. New Jersey Worker and Community Right-to-Know Act (New Jersey Statute Annotated Section 34:5A-5)

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

US. Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323)

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

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A)

<u>Components</u>	<u>CAS-No.</u>
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.	

Spill reporting

US. EPA CERCLA Hazardous Substances (40 CFR 302)

<u>Components</u>	<u>CAS-No.</u>	<u>Reportable Quantity</u>
Acetone	67-64-1	5000 lbs 5000 lbs 100 lbs

Health

US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)

<u>Components</u>	<u>CAS-No.</u>
Benzene	71-43-2
Acetaldehyde	75-07-0



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Inventories

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)
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)

Other international regulations

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D2B: Toxic Material Causing Other Toxic Effects
H15.00700000 **>

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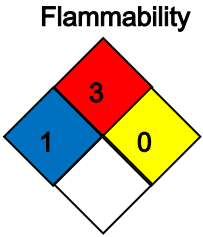
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SECTION 16 Other information

Hazard Ratings

NFPA:	HMIS:						
<div style="display: flex; align-items: center; justify-content: center;"> <div style="margin-right: 20px;">Health</div>  <div style="margin-left: 20px;">Reactivity Hazard</div> </div>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #0070C0; color: white;">Health</td> <td style="text-align: center;">1</td> </tr> <tr> <td style="background-color: #FF0000; color: white;">Flammability</td> <td style="text-align: center;">3</td> </tr> <tr> <td style="background-color: #FFFF00;">Reactivity Hazard</td> <td style="text-align: center;">0</td> </tr> </table> <p>0 = not significant, 1 = Slight, 2 = Moderate, 3 = High 4 = Extreme, * = Chronic</p>	Health	1	Flammability	3	Reactivity Hazard	0
Health	1						
Flammability	3						
Reactivity Hazard	0						

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



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advice given. When this product is sold, risk passes to the purchaser in accordance with the specific terms and conditions of sale.

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