



Safety Data Sheet

Acetone

Version 1.13

Revision Date 30.07.2013

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

Trade name	Acetone	
Synonyms	Acetone, 2-propanone, Dimethyl ketone, Ketone propane, beta-Ketopropanone	
Product code	2110	
Use	Solvent, Industrial use	
Company	Sasol Solvents A Division of Sasol Chemical Industries 2 Sturdee Avenue Rosebank 2196 Republic of South Africa	
Information (Product safety)	Telephone: +27(0) 11 280 0000 Fax: +27(0) 11 280 0198 E-mail address msds.info@sasol.com	
Emergency telephone number	Europe, Israel, Africa, Americas	+44 (0)1235 239 670
	Middle East, Arabic African countries	+44 (0)1235 239 671
	Asia Pacific	+65 3158 1074
	China	+86 10 5100 3039
	South Africa	+27 (0)17 610 4444
	Australia	+61 (2) 8014 4558

2. Hazards identification

Identification of the risks

R11	Highly flammable.
R36	Irritating to eyes.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

3. Composition/information on ingredients

Acetone; Propan-2-one; Propanone

Contents: 100.00 %W/W

CAS-No. 67-64-1

Index-No. 606-001-00-8

EC-No. 200-662-2

Symbol(s) F, Xi

R-phrases(s) -R11 -R36 -R66 -R67

For the full text of the R-phrases mentioned in this Section, see Section 16.



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4. First aid measures

General advice	<i>When symptoms persist or in all cases of doubt seek medical advice.</i>
Inhalation	<i>Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.</i>
Skin contact	<i>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.</i>
Eye contact	<i>Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.</i>
Ingestion	<i>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.</i>

5. Firefighting measures

Suitable extinguishing media	<i>Water spray, Alcohol-resistant foam, Dry chemical, Carbon dioxide (CO₂)</i>
Extinguishing media which shall not be used for safety reasons	<i>No information available.</i>
Specific hazards during firefighting	<i>Flash back possible over considerable distance.</i>
Special protective equipment for firefighters	<i>Wear self-contained breathing apparatus and protective suit.</i>
Further information	<i>Cool containers / tanks with water spray.</i>

6. Accidental release measures

Personal precautions	<i>Keep people away from and upwind of spill/leak. Remove all sources of ignition. Do not breathe vapours or spray mist.</i>
Environmental precautions	<i>Should not be released into the environment. Prevent further leakage or spillage if safe to do so.</i>
Methods for cleaning up	<i>Soak up with inert absorbent material and dispose of as hazardous waste.</i>



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7. Handling and storage

Handling

Safe handling advice Provide sufficient air exchange and/or exhaust in work rooms. Wear personal protective equipment. Take precautionary measures against static discharge. Ensure all equipment is electrically grounded before beginning transfer operations.

Advice on protection against fire and explosion Keep away from heat and sources of ignition. Use explosion-proof equipment.

Storage

Requirements for storage areas and containers Keep container tightly closed in a dry and well-ventilated place.

8. Exposure controls/personal protection

Components with workplace control parameters

NATIONAL OCCUPATIONAL EXPOSURE LIMITS

Components	Type	Control parameters	Update	Basis
ACETONE	TWA	1,780 mg/m ³	1995	South Africa RELs
	TWA	750 ppm	1995	South Africa RELs
	STEL	3,560 mg/m ³	1995	South Africa RELs
	STEL	1,500 ppm	1995	South Africa RELs

EUROPEAN OCCUPATIONAL EXPOSURE LIMITS

Components	Type	Control parameters	Update	Basis
ACETONE	TWA	1,210 mg/m ³	12 2009	EU Exposure Limit Values
	TWA	500 ppm	12 2009	EU Exposure Limit Values

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



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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.
Protective measures	Wear suitable protective equipment.

9. Physical and chemical properties

Form	Liquid
State of matter	Liquid
Colour	Colourless
Odour	Pungent
Melting point/range	-95.35 °C
Boiling point/boiling range	56.2 °C
Flash point	-20 °C
Auto-ignition temperature	465 °C
Lower explosion limit	2.6 %(V)
Upper explosion limit	12.8 %(V)
Vapour pressure	307.974 hPa; 25 °C
Density	0.79 g/cm ³
Water solubility	soluble
Viscosity, kinematic	0.4 mm ² /s
Relative vapour density	2

10. Stability and reactivity

Materials to avoid	Strong oxidizing agents, Incompatible with acids., Halogenated compounds
Hazardous decomposition products	Carbon oxides
Hazardous reactions	Hazardous polymerisation does not occur.



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11. Toxicological information

Acute oral toxicity	LD50 rat: 5,800 mg/kg; literature value
Acute inhalation toxicity	LC50 rat: > 20 mg/l; ; 4 h; literature value
Acute dermal toxicity	LD50 rabbit: 20,000 mg/kg; literature value
Skin irritation	rabbit: moderately irritating; (literature value)
Eye irritation	rabbit: irritating; (literature value) rabbit: moderately irritating; Draize Test
Sensitisation	No data available
Carcinogenicity	No data available
Reproductive toxicity	No toxicity to reproduction
Human experience: If inhaled	Vapours may cause drowsiness and dizziness.
Human experience: In case of skin contact	Repeated exposure may cause skin dryness or cracking
Human experience: In case of eye contact	Irritating to eyes
Human experience: If swallowed	No data available

12. Ecological information

Biodegradability	100 %; 5 d 89 %; 21 d
Bioaccumulation	1
Ecotoxicity effects	
Toxicity to fish	LC50 <i>Oncorhynchus mykiss</i> (rainbow trout): 5,540 mg/l; 96 h; literature value LC50 <i>Lepomis macrochirus</i> (Bluegill sunfish): 8,300 mg/l; 96 h; literature value LC50 <i>Pimephales promelas</i> : 8,120 mg/l; 96 h; literature value
Toxicity to daphnia and other aquatic invertebrates	EC50 <i>Daphnia magna</i> : 10 mg/l; 24 h
Toxicity to algae	EC50 <i>Pseudokirchneriella subcapitata</i> : > 100 mg/l; 96 h; literature value



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13. Disposal considerations

Product	<i>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.</i>
Contaminated packaging	<i>Do not burn, or use a cutting torch on, the empty drum., Triple rinse containers., Can be offered for recycling, re-conditioning or puncture.</i>

14. Transport information

ADR	<i>UN number: 1090; Class: 3; Packaging group: II; F1; Description of the goods: ACETONE</i>
RID	<i>UN number: 1090; Class: 3; Packaging group: II; F1; Description of the goods: ACETONE</i>
ADNR	<i>UN number: 1090; Class: 3; Packaging group: II; F1; Description of the goods: ACETONE</i>
IMDG	<i>UN number: 1090; Class: 3; EmS: F-E, S-D; Packaging group: II; Description of the goods: ACETONE</i>
ICAO/IATA	<i>UN number : 1090; Class: 3; Packaging group: II; Description of the goods: Acetone</i>

15. Regulatory information

Labelling



Regulatory base	<i>67/548/EEC</i>
Symbol(s)	<i>F: Highly flammable Xi: Irritant</i>
R-phrases(s)	<i>R11: Highly flammable. R36: Irritating to eyes. R66: Repeated exposure may cause skin dryness or cracking.</i>



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R67: Vapours may cause drowsiness and dizziness.

S-phrases(s)

S 9: Keep container in a well-ventilated place.

S16: Keep away from sources of ignition - No smoking.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Hazardous components which must be listed on the label

Acetone; Propan-2-one; Propanone

16. Other information

Full text of R-phrases referred to under sections 2 and 3

R11	Highly flammable.
R36	Irritating to eyes.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

All reasonable efforts were exercised to compile this SDS in accordance with ISO 11014 and ANSIZ400.1.1993. The SDS provides information regarding the health, safety and environmental hazards, at the date of issue, to facilitate the safe receipt, use and handling of the product in the workplace. Since Sasol and its subsidiaries cannot anticipate or control all conditions under which the 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 the 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 as regards 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 the product.

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

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