

Safety Data Sheet

Isopropyl Alcohol

Version 1.01

Revision Date 13.04.2018

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

Product identifier

Trade name Isopropyl Alcohol

Synonyms Dimethyl carbinol, Isopropanol.

EINECS-No. 200-661-7

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

Use Solvent. Raw material for printing inks and printing ink additives. Paint related material.

Manufacturer or supplier's details

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

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South Africa

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+86 10 5100 3039 (China)
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+61 (2) 8014 4558 (Australia)

SECTION 2. Hazards identification

Classification of the substance or mixture

South Africa. GHS Classification and Labelling of Chemicals - SANS 10234

Classification

Flammable Liquids	Category 2
Eye irritation	Category 2
Specific target organ toxicity - single exposure	Category 3

Label elements

Pictogram



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.

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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.
P261: Avoid breathing vapours.
P264: Wash hands thoroughly after handling.
P271: Use only outdoors or in a well-ventilated area.
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.
P370 + P378: In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
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.
P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312: Call a POISON CENTER/doctor if you feel unwell.

Storage

P403 + P233 + P235: Store in a well-ventilated place. Keep container tightly closed. Keep cool.
P405: Store locked up.

Disposal

Dispose of as hazardous waste in compliance with local and national regulations.

Other hazards

No data available

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SECTION 3. Composition/information on ingredients

Substance

Propan-2-ol; isopropyl alcohol; isopropanol

Contents: 100.00 %W/W

CAS-No. 67-63-0

Index-No. 603-117-00-0

EC-No. 200-661-7

Hazard statements *H225 H319 H336*

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 vapours. 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



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person.

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 (CO ₂).
Unsuitable extinguishing media	No information available.
Special hazards arising from the substance or mixture	Flash back possible over considerable distance. Vapours 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 vapours 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



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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.

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

Fire-fighting class Fires involving liquids or liquid containing substances. Also includes substances which become liquid at elevated temperatures.

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

Components with workplace control parameters

NATIONAL OCCUPATIONAL EXPOSURE LIMITS

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Components	Type	Control parameters	Update	Basis
ISOPROPYL ALCOHOL	TWA	980 mg/m ³	1995	South Africa RELs
PROPAN-2-OL	TWA	400 ppm	1995	South Africa RELs
PROPAN-2-OL	STEL	1,225 mg/m ³	1995	South Africa RELs
	STEL	500 ppm	1995	South Africa RELs

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



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Information on basic physical and chemical properties

Form	Liquid
State of matter	Liquid
Colour	Colourless
Odour	aromatic
Odour Threshold	No data available
pH	7
Melting point/range	-88.5 ° C
Boiling point/boiling range	82.22 ° C
Flash point	12 ° C; closed cup
Flash point	18 ° C; open cup
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Auto-ignition temperature	398.89 ° C
Lower explosion limit	2 %(V)
Upper explosion limit	12 %(V)
Vapour pressure	44 hPa; 20 ° C
Relative vapour density	2.08(Air = 1.0)
Density	0.79 g/cm ³
Water solubility	Completely soluble
Viscosity, dynamic	2.4 mPa.s
Viscosity, kinematic	0.1 mm ² /s



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SECTION 10. Stability and reactivity

Reactivity	Stable under recommended storage conditions.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Hazardous polymerisation 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	Propan-2-ol; isopropyl alcohol; isopropanol: LD50 Rat: > 2,000 mg/kg; (literature value)
Acute inhalation toxicity	Propan-2-ol; isopropyl alcohol; isopropanol: LC50 Rat: 8 h; > 20 mg/l; (literature value)
Acute dermal toxicity	Propan-2-ol; isopropyl alcohol; isopropanol: LD50 Rabbit: > 2,000 mg/kg; (literature value)
Skin irritation	Propan-2-ol; isopropyl alcohol; isopropanol: Rabbit: Not irritating; (literature value)
Eye irritation	Propan-2-ol; isopropyl alcohol; isopropanol: Rabbit: irritating (literature value)



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Sensitisation	Propan-2-ol; isopropyl alcohol; isopropanol: Buehler Test; Guinea pig: Not sensitizing; (literature value)
Mutagenicity	Propan-2-ol; isopropyl alcohol; isopropanol: Ames test: Salmonella typhimurium; with and without; Not mutagenic; (literature value)

SECTION 12. Ecological information

Toxicity to fish	Propan-2-ol; isopropyl alcohol; isopropanol: static test; Leuciscus idus melanotus; 48 h; LC50; > 100 mg/l; (literature value)
Toxicity to daphnia and other aquatic invertebrates	Propan-2-ol; isopropyl alcohol; isopropanol: static test; Daphnia magna (Water flea); 48 h; EC50; > 100 mg/l(literature value)
Toxicity to algae	Propan-2-ol; isopropyl alcohol; isopropanol: static test; Scenedesmus subspicatus72 h; EC50; > 100 mg/l; (literature value)
Biodegradability	Propan-2-ol; isopropyl alcohol; isopropanol: aerobic; activated sludge; 53 %; 5 d; Readily biodegradable.; (literature value)
Bioaccumulation	Propan-2-ol; isopropyl alcohol; isopropanol: No bioaccumulation is to be expected (log Pow <= 4).
Mobility in soil	Propan-2-ol; isopropyl alcohol; isopropanol: No data available
Results of PBT and vPvB	Propan-2-ol; isopropyl alcohol; isopropanol:



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assessment	This substance is not considered to be very persistent and very bioaccumulating (vPvB). This substance is not considered to be persistent, bioaccumulating and toxic (PBT).
Other adverse effects	Propan-2-ol; isopropyl alcohol; isopropanol: No data available

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.
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SECTION 14. Transport information

ADR

UN number:	1219
Class:	3
Packaging group:	II; F1;
Proper shipping name:	ISOPROPANOL

RID

UN number:	1219
Class:	3



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Packaging group: II; F1

Proper shipping name: ISOPROPANOL

ADNR

UN number: 1219

Class: 3

Packaging group: II; F1

Proper shipping name: ISOPROPANOL

IMDG

UN number: 1219

Class: 3

EmS: F-E, S-D

Packaging group: II

Proper shipping name: ISOPROPANOL

Marine pollutant Not a Marine Pollutant

ICAO/IATA

UN number : 1219

Class: 3



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Packaging group: II

Proper shipping name: ISOPROPANOL

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Isopropyl alcohol
Pollution Category: Z

SECTION 15. Regulatory information

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

Registration, Evaluation and Authorisation of Chemicals (REACH)	All chemical constituents are listed in: Registration, Evaluation and Authorisation of Chemicals (REACH) (See chapter 3)
Switzerland Consolidated Inventory	All chemical constituents are listed in: Switzerland Consolidated Inventory (See chapter 3)
USA TSCA Inventory	All chemical constituents are listed in: USA TSCA Inventory (See chapter 3)
Canadian Domestic Substances List (DSL)	All chemical constituents are listed in: Canadian Domestic Substances List (DSL) (See chapter 3)
Australian Inv. of Chem. Substances (AICS)	All chemical constituents are listed in: Australian Inv. of Chem. Substances (AICS) (See chapter 3)
New Zealand Inventory of Chemicals (NZIoC)	All chemical constituents are listed in: New Zealand Inventory of Chemicals (NZIoC) (See chapter 3)
Jap. Inv. of Exist. & New Chemicals (ENCS)	All chemical constituents are listed in: Jap. Inv. of Exist. & New Chemicals (ENCS) (See chapter 3)



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Japan. Industrial Safety & Health Law (ISHL)	All chemical constituents are listed in: Japan. Industrial Safety & Health Law (ISHL) (See chapter 3)
Korea. Existing Chemicals Inventory (KECI)	All chemical constituents are listed in: Korea. Existing Chemicals Inventory (KECI) (See chapter 3)
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	All chemical constituents are listed in: Philippines Inventory of Chemicals and Chemical Substances (PICCS) (See chapter 3)
Inv. of Exist. Chem. Substances in China	All chemical constituents are listed in: Inv. of Exist. Chem. Substances in China (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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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.