



SASOL

Safety Data Sheet

Ethanol 95 IPA

Version 1.00

Revision Date 08.04.2020

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

Product identifier

Trade name Ethanol 95 IPA

Synonyms Ethanol 95 IPA blend

Product code E95IPA

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

Use Raw material for alcohol hand rub production

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 number +27 (0)17 610 4444 (South Africa)

SECTION 2. Hazards identification

Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Classification Flammable liquids Category 2

Label elements

REGULATION (EC) No 1272/2008

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Hazard pictograms :



Signal word :

Danger

Hazard statements :

H225 Highly flammable liquid and vapour.

Precautionary statements

Prevention

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

Response

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

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

Mixture

Ethanol

Contents: >= 94.00 %VOL/VOL

CAS-No. 64-17-5

Index-No. 603-002-00-5

EC-No. 200-578-6

Hazard statements *H225*



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Propan-2-ol

Contents: <= 6.00 %VOL/VOL

CAS-No. 67-63-0

Index-No. 603-117-00-0

EC-No. 200-661-7

Hazard statements *H225 H319 H336*



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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. If symptoms persist, call a physician.
Skin contact	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Call a physician immediately.
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.

Most important symptoms/effects, acute and delayed

Refer to SECTION 11

Risks First aider needs to protect himself.

SECTION 5. Firefighting measures

Suitable extinguishing media	Water spray. Dry powder. Foam.
Special hazards arising from the substance or mixture	Do not allow run-off from fire fighting to enter drains or water courses.
Special protective equipment for firefighters	Wear self-contained breathing apparatus and protective suit.

SECTION 6. Accidental release measures

Personal precautions Ensure adequate ventilation. Keep away from sources of ignition - No smoking.



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- Environmental precautions** Avoid subsoil penetration. Do not flush into surface water or sanitary sewer system.
- Methods for cleaning up** Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). The material taken up must be disposed of in accordance with regulations.
- Reference to other sections** Refer to section 8 and 13

SECTION 7. Handling and storage

- Safe handling advice** Keep away from sources of ignition - No smoking.
- Advice on protection against fire and explosion** When handling this product in plastic drums, take measures to prevent the build up of electrostatic charges.
- Requirements for storage areas and containers** Keep containers tightly closed in a cool, well-ventilated place. Handle empty containers with care.
- Advice on common storage** Store between 15 and 30 deg C. Avoid freezing and excessive heat exceeding 40 deg C.

SECTION 8. Exposure controls/personal protection

Components with workplace control parameters

NATIONAL OCCUPATIONAL EXPOSURE LIMITS

Components	Type	Control parameters	Update	Basis
ISOPROPYL ALCOHOL	TWA	980 mg/m3	1995	South Africa RELs
PROPAN-2-OL	TWA	400 ppm	1995	South Africa RELs
PROPAN-2-OL	STEL	1,225 mg/m3	1995	South Africa RELs
	STEL	500 ppm	1995	South Africa RELs
ETHYL ALCOHOL	TWA	1,900 mg/m3	1995	South Africa RELs
ETHANOL	TWA	1,000 ppm	1995	South Africa RELs



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Exposure controls

Engineering measures

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

Personal protective equipment

Respiratory protection	Not required for normal conditions of use
Hand protection	Gloves suitable for permanent contact: Material: butyl-rubber Break through time: 4 h Material thickness: 0.5 mm
Eye protection	Wear safety glasses with side shields or goggles.
Skin and body protection	Full protective suit
Hygiene measures	Wash hands before breaks and at the end of workday.

SECTION 9. Physical and chemical properties

Information on basic physical and chemical properties

Form	Liquid
State of matter	Liquid; at 20 ° C; 1,013 hPa
Colour	Clear and bright
Odour	Characteristic
Odour Threshold	No data available
pH	Not applicable
Boiling point/boiling range	78.8 - 79.2 ° C; ASTM D1078
Flash point	14 ° C; ASTM D 93
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Vapour pressure	10 kPa; 37.7 ° C; SASOL 2014
Relative vapour density	No data available
Density	0.789 kg/dm ³ ; 20 ° C; ASTM D4052
Viscosity, kinematic	1.10 mm ² /s; ASTM D455



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SECTION 10. Stability and reactivity

Reactivity	Stable under normal conditions.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Reactivity hazard in contact with strong oxidizing agents
Conditions to avoid	Heat, flames and sparks.
Materials to avoid	Oxidizing agents. Reducing agents. Acids and bases
Hazardous decomposition products	No decomposition if stored normally.

SECTION 11. Toxicological information

Acute oral toxicity	Propan-2-ol: LD50 Rat: > 2,000 mg/kg; (literature value)
Acute oral toxicity	Ethanol; Ethyl alcohol: LD50 Rat: > 2,000 mg/kg; OECD Test Guideline 401; (literature value)
Acute inhalation toxicity	Ethanol; Ethyl alcohol: LC50 Mouse: 4 h; > 20 mg/l; (literature value)
Acute inhalation toxicity	Propan-2-ol: LC50 Rat: 8 h; vapour; > 20 mg/l; (literature value)
Acute dermal toxicity	Propan-2-ol: LD50 Rabbit: > 2,000 mg/kg; (literature value)
Acute dermal toxicity	Ethanol; Ethyl alcohol: LD50 Dermal Rabbit: > 2,000 mg/kg; OECD Test Guideline 402; (literature value)
Skin irritation	Ethanol; Ethyl alcohol: Rabbit: Not irritating; OECD Test Guideline 404 (literature value)
Skin irritation	Propan-2-ol: Rabbit: Not irritating; (literature value)
Eye irritation	Ethanol; Ethyl alcohol: Rabbit: irritating OECD Test Guideline 405 (literature value)
Eye irritation	Propan-2-ol: Rabbit: irritating (literature value)



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Sensitisation	Ethanol; Ethyl alcohol: Maximisation Test; Guinea pig: Not sensitizing; OECD Test Guideline 406; (literature value)
Sensitisation	Propan-2-ol: Buehler Test; Guinea pig: Not sensitizing; (literature value)
Repeated dose toxicity	Ethanol; Ethyl alcohol: Oral Rat; 90-day; NOAEL Early embryonic development 1,730 mg/kg Lowest observed adverse effect level 3,160 mg/kg
Mutagenicity	Ethanol; Ethyl alcohol: Ames test: Salmonella typhimurium; with and without; Not mutagenic; OECD Test Guideline 471; (literature value)

SECTION 12. Ecological information

Toxicity to fish	Ethanol; Ethyl alcohol: static test; Leuciscus idus; 48 h; LC50; > 100 mg/l; OECD Test Guideline 203; (literature value)
Toxicity to fish	Propan-2-ol: static test; Leuciscus idus melanotus; 48 h; LC50; > 100 mg/l; (literature value)
Toxicity to daphnia and other aquatic invertebrates	Ethanol; Ethyl alcohol: static test; Daphnia magna (Water flea); 24 h; EC50; > 100 mg/l(literature value)
Toxicity to daphnia and other aquatic invertebrates	Propan-2-ol: static test; Daphnia magna (Water flea); 48 h; EC50; > 100 mg/l(literature value)
Toxicity to algae	Ethanol; Ethyl alcohol: static test; Chlorella pyrenoidosa EC50; > 100 mg/l; OECD Test Guideline 201; (literature value)
Toxicity to algae	Propan-2-ol: static test; Scenedesmus subspicatus 72 h; EC50; > 100 mg/l; (literature value)
Biodegradability	Ethanol; Ethyl alcohol: aerobic; > 70 %; 5 d; Readily biodegradable.; OECD Guideline 301 D; (literature value)



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Biodegradability	Propan-2-ol: aerobic; activated sludge; 53 %; 5 d; Readily biodegradable.; (literature value)
Bioaccumulation	Propan-2-ol: No bioaccumulation is to be expected (log Pow <= 4).
Mobility in soil	No data available
Results of PBT and vPvB assessment	This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).
Chemical Oxygen Demand (COD)	Ethanol; Ethyl alcohol: ca.1,700 mg/g; Directive 84/449/EEC, C.9; GLP: no;

SECTION 13. Disposal considerations

Product	In accordance with local and national regulations. “ Packaging - Dispose of spent product packaging responsibly and lawfully with due consideration for health, safety and the environment.
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SECTION 14. Transport information

ADR	
UN number:	1170
Class:	3
Packaging group:	II; F1;
Proper shipping name:	ETHANOL
RID	
UN number:	1170
Class:	3
Packaging group:	II; F1
Proper shipping name:	ETHANOL
IMDG	
UN number:	1170
Class:	3



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EmS:	F-E, S-D
Packaging group:	II
Proper shipping name:	ETHANOL
ICAO/IATA	
UN number :	1170
Class:	3
Packaging group:	II
Proper shipping name:	ETHANOL

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)
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	All chemical constituents are listed in: Taiwan. Chemical



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(TCSI)

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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