



Safety Data Sheet

Ethyl alcohol (Precut)

Version 1.01

Revision Date 21.09.2022

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

Product identifier

Trade name

Ethyl alcohol (Precut)

Synonyms

Ethanol Solution, Precut

Product code

2083

Product Description

Ethyl Alcohol 92.1% (Volume) purity

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

Use

Industrial use.

Uses advised against

Prohibited for use in production of hand sanitizer.

Manufacturer or supplier's details

Company

Sasol Chemicals, a division of Sasol South Africa Ltd

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Sandton
2090
South Africa

Telephone

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E-mail address

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+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)
+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

REGULATION (EC) No 1272/2008

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Classification

Flammable liquids

Category 2

Label elements

REGULATION (EC) No 1272/2008

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.

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof electrical/ ventilating/ lighting equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

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

Storage

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

Disposal

P501 Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.

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SECTION 3. Composition/information on ingredients

HAZARDOUS INGREDIENTS

Ethanol

Contents: ≥ 92.00 - ≤ 98.00 %W/W

CAS-No. 64-17-5

Index-No. 603-002-00-5

EC-No. 200-578-6

Hazard statements *H225*

Propan-2-ol; isopropyl alcohol; isopropanol

Contents: < 5.00 %W/W

CAS-No. 67-63-0

Index-No. 603-117-00-0

EC-No. 200-661-7

Hazard statements *H225 H319 H336*

diethyl ether

Contents: ≤ 2.00 %W/W

CAS-No. 60-29-7

Index-No. 603-022-00-4

EC-No. 200-467-2

Hazard statements *H224 H302 H336*

isopropyl acetate

Contents: ≤ 2.00 %W/W

CAS-No. 108-21-4

Index-No. 607-024-00-6

EC-No. 203-561-1

Hazard statements *H225 H319 H336*

Ethyl acetate

Contents: ≤ 1.00 %W/W

CAS-No. 141-78-6

Index-No. 607-022-00-5

EC-No. 205-500-4

Hazard statements *H225 H319 H336*



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1,1-diethoxyethane; acetal

Contents: <= 1.00 %W/W

CAS-No. 105-57-7

Index-No. 605-015-00-1

EC-No. 203-310-6

Hazard statements *H225 H319 H315*

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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. If eye irritation persists, consult a specialist.
Ingestion	Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Call a physician immediately.

Most important symptoms/effects, acute and delayed

Refer to SECTION 11

SECTION 5. Firefighting measures

Suitable extinguishing media	Water spray, Foam, CO2, Dry powder.
Unsuitable extinguishing media	Water spray jet
Special hazards arising from the substance or mixture	Flash back possible over considerable distance. Do not allow run-off from fire fighting to enter drains or water courses.
Special protective equipment for firefighters	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

SECTION 6. Accidental release measures

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Personal precautions	Keep people away from and upwind of spill/leak. Remove all sources of ignition. Use non-sparking tools. Do not breathe vapours or spray mist.
Environmental precautions	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so.
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	Do not breathe vapours or spray mist. Wear personal protective equipment.
Advice on protection against fire and explosion	Keep away from open flames, hot surfaces and sources of ignition. Use explosion-proof equipment.
Requirements for storage areas and containers	Keep away from sources of ignition - No smoking.
Advice on common storage	Keep in a cool, well-ventilated place.

SECTION 8. Exposure controls/personal protection

Components with workplace control parameters

NATIONAL OCCUPATIONAL EXPOSURE LIMITS

Components	Type	Control parameters	Update	Basis
ETHYL ALCOHOL	TWA	1,900 mg/m ³	1995	South Africa RELs
ETHANOL	TWA	1,000 ppm	1995	South Africa RELs
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

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ETHYL ACETATE	TWA	1,400 mg/m ³	1995	South Africa RELs
	TWA	400 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.
Hygiene measures	Wash hands before breaks and immediately after handling the product.

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, colourless
Odour	Alcohol-like
Odour Threshold	No data available.
pH	Not applicable.
Melting point/range	-114 ° C
Boiling point/boiling range	77 ° C
Flash point	< 10 ° C; ASTM D 93 - 85; closed cup;
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.

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Auto-ignition temperature	363 ° C
Decomposition Temperature	No data available.
Lower explosion limit	3.3 %(V)
Upper explosion limit	19 %(V)
Vapour pressure	No data available.
Relative vapour density	No data available.
Density	0.790 g/cm ³ ; 20 ° C; ASTM D 1298
Water solubility	Soluble
Partition coefficient: n-octanol/water	No data available.
Viscosity, kinematic	1.33 mm ² /s; 20 ° C

SECTION 10. Stability and reactivity

Reactivity	Stable under normal conditions.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	Heating can release hazardous gases.
Conditions to avoid	Heat, flames and sparks. Extremes of temperature and direct sunlight.
Materials to avoid	Oxidizing agents. Acids and bases
Hazardous decomposition products	Carbon oxides.

SECTION 11. Toxicological information

Acute oral toxicity	Ethanol: LD50 Rat: > 5,000 mg/kg; OECD Test Guideline 401; GLP: noCentral nervous system depression ; (literature value) Based on available data, the classification criteria are not met.
Acute oral toxicity	Propan-2-ol; isopropyl alcohol; isopropanol: LD50 Rat: > 5,000 mg/kg; OECD Test Guideline 401; (literature value) Based on available data, the classification criteria are not met.
Acute oral toxicity	isopropyl acetate:

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	LD50 Mouse: 6,650 mg/kg;
Acute oral toxicity	Ethyl acetate:
	LD50 Rat: 2,000 mg/kg; (literature value)
Acute inhalation toxicity	Ethanol:
	LC50 Rat: 6 h; vapour; > 20 mg/l; OECD Test Guideline 403; Central nervous system; Drowsiness(literature value), Based on available data, the classification criteria are not met.
Acute inhalation toxicity	Propan-2-ol; isopropyl alcohol; isopropanol:
	LC50 Rat: 6 h; vapour; > 10000 ppm; OECD Test Guideline 403; Central nervous system; Drowsiness(literature value), Based on available data, the classification criteria are not met.
Acute inhalation toxicity	isopropyl acetate:
	LC50 Rat: 27,894 mg/m3;
Acute dermal toxicity	Ethanol:
	LD50 Dermal Rat: > 5,000 mg/kg; OECD Test Guideline 402; (literature value), Based on available data, the classification criteria are not met.
Acute dermal toxicity	Propan-2-ol; isopropyl alcohol; isopropanol:
	LD50 Rabbit: > 5,000 mg/kg; OECD Test Guideline 402; (literature value), Based on available data, the classification criteria are not met.
Acute dermal toxicity	Ethyl acetate:
	LD50 Rabbit: > 2,000 mg/kg; (literature value)
Acute dermal toxicity	1,1-diethoxyethane; acetal:
	LD50 Rabbit: 8,276 mg/kg;
Skin irritation	Ethanol:
	Rabbit: Not irritating; OECD Test Guideline 404 (literature value)
Skin irritation	Propan-2-ol; isopropyl alcohol; isopropanol:
	Rabbit: Not irritating; (literature value)
Skin irritation	Ethyl acetate:
	Rabbit: Not irritating; (literature value)
Eye irritation	Propan-2-ol; isopropyl alcohol; isopropanol:
	Rabbit: Irritating (literature value)
Eye irritation	Ethyl acetate:



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Sensitisation	Rabbit: Slightly irritating (literature value) Ethanol: Maximisation Test; Guinea pig: Not sensitizing; OECD Test Guideline 406; (literature value)
Sensitisation	Propan-2-ol; isopropyl alcohol; isopropanol: Buehler Test; Guinea pig: Not sensitizing; (literature value)
Sensitisation	Ethyl acetate: Maximisation Test; Guinea pig: Not sensitizing; OECD Test Guideline 406;
Mutagenicity	Ethanol: In vitro tests did not show mutagenic effects In vivo tests did not show mutagenic effects;
Mutagenicity	Propan-2-ol; isopropyl alcohol; isopropanol: In vitro tests did not show mutagenic effects In vivo tests did not show mutagenic effects;
Mutagenicity	Ethyl acetate: Ames test: Salmonella typhimurium; Not mutagenic; (literature value)

SECTION 12. Ecological information

Toxicity to fish	Ethanol: static test; Leuciscus idus; 48 h; LC50; > 100 mg/l; OECD Test Guideline 203; (literature value)
Toxicity to fish	Propan-2-ol; isopropyl alcohol; isopropanol: static test; Leuciscus idus melanotus; 48 h; LC50; > 100 mg/l; (literature value)
Toxicity to fish	Ethyl acetate: semi-static test; Salmo gairdneri; 96 h; > 100 mg/l; OECD Test Guideline 203; (literature value)
Toxicity to daphnia and other aquatic invertebrates	Ethanol: static test; Daphnia magna (Water flea); 24 h; EC50; > 100 mg/l(literature value)
Toxicity to daphnia and other	Propan-2-ol; isopropyl alcohol; isopropanol:

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aquatic invertebrates	static test; Daphnia magna (Water flea); 48 h; EC50; > 100 mg/l(literature value)
Toxicity to daphnia and other aquatic invertebrates	Ethyl acetate: static test; Daphnia magna (Water flea); 48 h; EC50; > 100 mg/l(literature value)
Toxicity to algae	Ethanol: static test; Chlorella pyrenoidosa EC50; > 100 mg/l; OECD Test Guideline 201; (literature value)
Toxicity to algae	Propan-2-ol; isopropyl alcohol; isopropanol: static test; Scenedesmus subspicatus 72 h; EC50; > 100 mg/l; (literature value)
Toxicity to algae	Ethyl acetate: static test; Desmodesmus subspicatus (green algae) 72 h; EC50; > 100 mg/l; (literature value)
Toxicity to bacteria	Ethanol: Pseudomonas putida; 16 h; 6,500 mg/l; Toxicity to bacteria
Biodegradability	Ethanol: aerobic; > 70 %; 5 d; Readily biodegradable.; OECD Guideline 301 D; (literature value)
Biodegradability	Propan-2-ol; isopropyl alcohol; isopropanol: aerobic; activated sludge; 53 %; 5 d; Readily biodegradable.; (literature value)
Biodegradability	Ethyl acetate: aerobic; > 70 %; 28 d; Readily biodegradable.; OECD Guideline 301 D; (literature value)
Bioaccumulation	Propan-2-ol; isopropyl alcohol; isopropanol: No bioaccumulation is to be expected (log Pow <= 4).
Chemical Oxygen Demand (COD)	Ethanol: ca. 1,700 mg/g; Directive 84/449/EEC, C.9; GLP: no;

SECTION 13. Disposal considerations

Product	Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.
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Packaging

Dispose of spent product packaging responsibly and lawfully with due consideration for health, safety and the environment.

SECTION 14. Transport information

DG Pictogram



ADR

UN number: 1993
 Class: 3
 Packaging group: II; F1;
 Proper shipping name: FLAMMABLE LIQUID, N.O.S.
 (Ethanol, iso-propanol, diethyl ether)

RID

UN number: 1993
 Class: 3
 Packaging group: II; F1
 Proper shipping name: FLAMMABLE LIQUID, N.O.S.
 (Ethanol, iso-propanol, diethyl ether)

ADNR

UN number: 1993
 Class: 3
 Packaging group: II; F1
 Proper shipping name: FLAMMABLE LIQUID, N.O.S.
 (Ethanol, iso-propanol, diethyl ether)

IMDG

UN number: 1993
 Class: 3



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EmS:	F-E, S-E
Packaging group:	II
Proper shipping name:	FLAMMABLE LIQUID, N.O.S. (Ethanol, iso-propanol, diethyl ether)
Marine pollutant	Not a Marine Pollutant
ICAO/IATA	
UN number :	1993
Class:	3
Packaging group:	II
Proper shipping name:	FLAMMABLE LIQUID, N.O.S. (Ethanol, iso-propanol, diethyl ether)
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Ethyl alcohol 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)
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)

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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

H224	Extremely flammable liquid and vapour.
H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H315	Causes skin irritation.
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



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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.