



Safety Data Sheet

Ethanol 95 E5

Version 1.05

Revision Date 23.01.2024

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

Product identifier

Trade name Ethanol 95 E5

Product code 1806

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

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

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

Supplier's details

Sasol Chemicals Pacific Ltd
2 Shenton way #06-01
61 Robinson Road
#17-02
068893

Telephone Singapore

E-mail address +65 6533 8856

Emergency Phone Number info.sg@sasol.com

Emergency telephone number +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)

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0800 112 890 RSA-Local only

+61 (2) 8014 4558 (Australia)

SECTION 2. Hazards identification

Classification of the substance or mixture

GHS Classification

Classification		SS 586 : Part 2: Specification for Hazard Communication for Hazardous Chemicals and Dangerous Goods, Part 2 : Globally harmonized system of classification and labelling of chemicals - Singapore's adaptations	
		Flammable liquids	Category 2
		Serious eye damage/eye irritation	Category 2
		Specific target organ toxicity - single exposure	Category 3
GHS label elements			
Hazard pictograms	:	 	
Signal word	:	Danger	
Hazard statements	:	H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.	
Precautionary statements	:	<p>Prevention:</p> <p>P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.</p> <p>P233 Keep container tightly closed.</p> <p>P240 Ground/bond container and receiving equipment.</p> <p>P241 Use explosion-proof electrical/ ventilating/ lighting equipment.</p> <p>P264 Wash skin thoroughly after handling.</p> <p>P280 Wear protective gloves/ eye protection/ face protection.</p> <p>Response:</p> <p>P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.</p> <p>P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for</p>	



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several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
P337 + P317 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.

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

HAZARDOUS INGREDIENTS

Ethanol

Contents: ≥ 94.00 - ≤ 95.00 %W/W

CAS-No. 64-17-5

Index-No. 603-002-00-5

EC-No. 200-578-6

Hazard statements H225

Ethyl acetate

Contents: ≥ 5.00 - ≤ 6.00 %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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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.



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SECTION 6. Accidental release measures

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. Ensure adequate ventilation.
Environmental precautions	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. Should not be released into the environment. 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.
Reference to other sections	Refer to Section 8 and 13

SECTION 7. Handling and storage

Safe handling advice	Wear personal protective equipment. Provide sufficient air exchange and/or exhaust in work rooms. Take precautionary measures against static discharges. Ensure all equipment is electrically grounded before beginning transfer operations. Do not breathe vapours or spray mist.
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 containers tightly closed in a cool, well-ventilated place.
Advice on common storage	No data available.

SECTION 8. Exposure controls/personal protection

Components with workplace control parameters

NATIONAL OCCUPATIONAL EXPOSURE LIMITS

Components	Type	Control parameters	Update	Basis
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ETHANOL (ETHYL ALCOHOL)	TWA	1,880 mg/m ³	2006	Singapore PELs
	TWA	1,000 ppm	2006	Singapore PELs
ETHYL ACETATE	TWA	1,440 mg/m ³	2006	Singapore PELs
	TWA	400 ppm	2006	Singapore PELs

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	Colourless
Odour	Alcohol-like
Odour Threshold	No data available.
pH	Not applicable.
Melting point/range	-114.1 °C
Boiling point/boiling range	77.2 - 79.0 °C



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Flash point	< 10 °C; closed cup
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Auto-ignition temperature	363 °C
Decomposition Temperature	No data available.
Lower explosion limit	3.3 %(V)
Upper explosion limit	19 %(V)No data available.
Vapour pressure	No data available.
Relative vapour density	No data available.
Density	0.795 g/cm ³ ; 20 °C
Bulk density	No data available.
Water solubility	Completely soluble
Partition coefficient: n-octanol/water	No data available.
Viscosity, kinematic	1.28 mm ² /s; 20 °C

SECTION 10. Stability and reactivity

Reactivity	Stable under recommended storage 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

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Acute oral toxicity	Acute toxicity estimate : > 2,000 mg/kg; Calculation method;
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.
Skin irritation	Ethanol: Rabbit: Not irritating; OECD Test Guideline 404 (literature value)
Skin irritation	Ethyl acetate: Rabbit: Not irritating; (literature value)
Eye irritation	Ethanol: Rabbit: No eye irritation No eye irritation; 24 h; GLP: no; (literature value)
Eye irritation	Ethyl acetate: Rabbit: Slightly irritating (literature value)
Sensitisation	Ethanol: Maximisation Test; Guinea pig: Not sensitizing; OECD Test Guideline 406; (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	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	Ethyl acetate: semi-static test; Salmo gairdneri; 96 h; > 100 mg/l; OECD Test

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	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 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	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	Ethyl acetate: aerobic; > 70 %; 28 d; Readily biodegradable.; OECD Guideline 301 D; (literature value)
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: 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.
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

DG Pictogram



ADR

UN number: 1993
Class: 3
Packaging group: II; F1;
Proper shipping name: FLAMMABLE LIQUID, N.O.S.
(Ethanol, Ethyl acetate)

RID

UN number: 1993
Class: 3
Packaging group: II; F1
Proper shipping name: FLAMMABLE LIQUID, N.O.S.
(Ethanol, Ethyl acetate)

ADNR

UN number: 1993
Class: 3
Packaging group: II; F1
Proper shipping name: FLAMMABLE LIQUID, N.O.S.
(Ethanol, Ethyl acetate)



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IMDG

UN number: 1993
Class: 3
EmS: F-E, S-E
Packaging group: II
Proper shipping name: FLAMMABLE LIQUID, N.O.S.
(Ethanol, Ethyl acetate)

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, Ethyl acetate)

SECTION 15. Regulatory information

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

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)



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Jap. Inv. of Exist. & New Chemicals (ENCS)	All chemical constituents are listed in: Jap. Inv. of Exist. & New Chemicals (ENCS) (See chapter 3)
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)
China Inv. Existing Chemical Substances (IECSC)	All chemical constituents are listed in: China Inv. Existing Chemical Substances (IECSC) (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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