

# **Safety Data Sheet**

Ethanol 99.9/UN

Version 1.08 Revision Date 07.10.2025

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

Product identifier

Trade name Ethanol 99.9/UN

**Synonyms** Ethyl alcohol; Alcohol; Methyl carbinol

Product code 2020

**CAS-No.** 64-17-5 **EINECS-No.** 200-578-6

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

Use Solvent. Raw material Industrial use.

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 Japan KK

Toshin Shoji Building, 5F 2-12-6 Kyobashi, Chuo-ku

Tokyo, 104-0031

Japan

**Telephone** +81 - 3 - 6263-2061 **E-mail address** info.sg@sasol.com

**Emergency Phone Number** 

**Emergency telephone** +44 (0)1235 239 670 (Europe, Israel, Africa, Americas)

+44(0)1235 239 671 (Middle East, Arabic African countries)



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+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

#### **GHS** Classification

### Japan. NITE GHS Classifications of Regulated Chemicals [Advisory]

Flammable liquids

Category 2

Serious eye damage/eye irritation

Category 2B

Carcinogenicity

Category 1A

Reproductive toxicity

Specific target organ toxicity - single exposure

Category 3

Specific target organ toxicity - repeated exposure

Category 1

**GHS** label elements

Classification

Hazard pictograms







Signal Word : Danger

Hazard Statements : H225 Highly flammable liquid and vapor.

H320 Causes eye irritation.

H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness.

H350 May cause cancer.

H360 May damage fertility or the unborn child.

H372 Causes damage to organs through prolonged or repeated

exposure.

Precautionary Statements : **Prevention:** 

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P203 Obtain, read and follow all safety instructions before use.

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.

P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.

P264 + P265 Wash hands thoroughly after handling. Do not touch eyes.

P270 Do not eat, drink or smoke when using this product.

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): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P318 IF exposed or concerned, get medical advice.

P319 Get medical help if you feel unwell.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

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

#### Storage:

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

P405 Store locked up.

#### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

#### Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.



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This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### **SECTION 3. Composition/information on ingredients**

**Substance** 

ethanol

**Contents:** >= 99.99 %W/W

**CAS-No.** 64-17-5 **Index-No.** 603-002-00-5 **EC-No.** 200-578-6

**Hazard Statements** *H225 H320 H350 H360 H335 H336 H372* 

H373 H225



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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 vapors. 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

the substance or mixture

Special hazards arising from Flash back possible over considerable distance. Do not allow run-off

from fire fighting to enter drains or water courses.

for firefighters

**Special protective equipment** 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 vapors 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 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 vapors or spray mist.

fire and explosion

**Advice on protection against** 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**

**Ingredients with workplace control parameters** 

NATIONAL OCCUPATIONAL EXPOSURE LIMITS

Contains no substances with occupational exposure limit values.

**Exposure controls** 

**Engineering measures** 

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Eye protection

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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 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

Color colorless
Odor alcohol-like

Odor Threshold

PH

No data available

Not applicable

Melting point/ range

-114.1 °C

Boiling point/boiling range 78.5 °C

Flash point 11 °C; closed cup
Evaporation rate No data available
Flammability (solid, gas) No data available
Autoignition temperature No data available

**Decomposition Temperature** 



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Lower explosion limit 3.1 %(V)
Upper explosion limit 27.7 %(V)

Vapor pressureNo data availableRelative vapor density1.59(Air = 1.0)Density0.788 g/cm3;  $20 ^{\circ}\text{C}$ Water solubilitycompletely soluble

Partition coefficient: n-

octanol/water

No data available

Viscosity, kinematic 1.51 mm2/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**

**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 inhalation toxicity ethanol

LC50 Rat: 6 h; vapor; > 20 mg/l; OECD Test Guideline 403; Central nervous system; Drowsiness(literature value), Based on available

data, the classification criteria are not met.

Acute dermal toxicity ethanol:

LD50 Dermal Rat: > 5,000 mg/kg; OECD Test Guideline 402;

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(literature value), Based on available data, the classification criteria

are not met.

**Skin irritation** ethanol:

Rabbit: Not irritating; OECD Test Guideline 404 (literature value)

**Eye irritation** ethanol

Rabbit: No eye irritation No eye irritation; 24 h; GLP: no; (literature

value)

**Sensitization** ethanol:

Maximization Test; Guinea pig: Not sensitizing; OECD Test

Guideline 406; (literature value)

**Repeated dose toxicity** Causes damage to organs through prolonged or repeated exposure.

**Carcinogenicity** The product may cause cancer.

Mutagenicity ethanol:

In vitro tests did not show mutagenic effects In vivo tests did not show mutagenic effects;

**Further Information** May damage fertility or the unborn child.

#### **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 daphnia and other

aquatic invertebrates

ethanol:

static test; Daphnia magna (Water flea); 24 h; EC50; > 100

mg/l(literature value)

**Toxicity to algae** ethanol:

static test; Chlorella pyrenoidosaEC50; > 100 mg/l; OECD Test

Guideline 201; (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)

**Chemical Oxygen Demand** ethanol:

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(**COD**) 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.

### **SECTION 14. Transport information**

**DG Pictogram** 



**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

Marine pollutant Not a Marine Pollutant

ICAO/IATA

**UN number** : 1170

Class: 3

Packaging group: II

**Proper shipping name:** ETHANOL

Transport in bulk according Ethyl alcohol

to Annex II of MARPOL

**73/78 and the IBC Code** Pollution Category: Z

### **SECTION 15. Regulatory information**

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

United States TSCA Inventory All chemical constituents are listed in: United States TSCA Inventory

(See chapter 3)

Canadian Domestic Substances List (DSL)

All chemical constituents are listed in: Canadian Domestic Substances

List (DSL) (See chapter 3)

**Australia Inventory of Chemical Substances** 

(AICS)

All chemical constituents are listed in: Australia Inventory of

Chemical Substances (AICS) (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** 

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New Chemical Substances Inventory (See chapter 3)

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Japan. ISHL - Inventory of Chemical All chemical constituents are listed in: Japan. ISHL - Inventory of Substances Chemical Substances (See chapter 3) Korea. Korean Existing Chemicals Inventory All chemical constituents are listed in: Korea. Korean Existing Chemicals Inventory (KECI) (See chapter 3) (KECI) Philippines Inventory of Chemicals and All chemical constituents are listed in: Philippines Inventory of **Chemical Substances (PICCS)** Chemicals and Chemical Substances (PICCS) (See chapter 3) **China. Inventory of Existing Chemical** All chemical constituents are listed in: China. Inventory of Existing **Substances in China (IECSC)** Chemical Substances in China (IECSC) (See chapter 3)

Japan PRTRThis product complies with PRTR requirements.

PRTR Ordinance number: NA

#### **SECTION 16. Other information**

#### **Full text of H-Statements**

TTOOF	TT' 11	C1 11 1		and vapor.
H225	Highly	tlammahla	lianid	and waner
11443	THEIHV	manimatic .	Huulu	and vapor.

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H372 Causes damage to organs through prolonged or repeated exposure.

H373 May cause damage to organs through prolonged or repeated exposure.

#### **Industrial Safety and Health Act**

- Dangerous or Harmful Substances whose name should be labelled and notified (Ordinance appended table 2-205)
- Dangerous/Inflammable Substances (Attached Table 1-4 of Order).

#### **Ethanol Business Act**

• Ethanol with a 90 percent or higher alcoholic content.

#### **Fire Service Act**

• Category IV inflammable liquids, Alcohols. (Article 2-7 of act, Appended table 1-4 of Act.)

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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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