

# SYSTEM

## SAFETY DATA SHEET

### 1. Identification of the substance/preparation and of the company/undertaking

Product name: Ethanol 95% (denatured) with 5% methanol

Name and address of Supplier: Classic Chemicals Sdn Bhd  
19, Jalan Penerbit U/43,  
Temasya Industrial Park,  
40150 Shah Alam, Selangor

Emergency telephone no.: 03-5569 7989

### 2. Hazards identification

#### GHS Classification

#### Classification according to CLASS regulations 2013

Flammable liquids (Category 2), H225  
Serious eye damage/eye (category 2), H319



#### GHS Label elements, including precautionary statements

#### Labelling according to CLASS regulations 2013

Signal word Danger

#### Hazard Statements

H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.

#### Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
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.  
P264 Wash skin thoroughly after handling.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 If on skin (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.  
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 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.  
P403+P235 Store in a well-ventilated place. Keep cool.  
P501 Dispose of contents/container at an approved waste disposal plant.

# SYSTEM

## SAFETY DATA SHEET

Product name: Ethanol 95% (denatured) with 5% methanol

### 3. Composition/information on ingredients

#### Mixtures

Ehtanol	60-100%
CAS-No.:	64-17-5
Molar mass:	46.07
Molecular formula:	C <sub>2</sub> H <sub>5</sub> OH
EC No.:	200-578-6
Index no.:	603-002-00-5

Methanol	5-10%
CAS-No.:	67-56-1
Molar mass:	32.04
Molecular formula:	CH <sub>3</sub> OH
EC No.:	200-659-6
Index no.:	603-001-00-x

### 4. First aid measures

After inhalation: Remove from exposure, rest and keep warm. In severe cases obtain medical attention.

After skin contact: Wash off thoroughly with soap and water. Remove contaminated clothing and wash before re-use. In severe case, obtain medical attention.

After eye contact: Irrigate thoroughly with water for at least 10 minutes. If discomfort persists, obtain medical attention.

After ingestion: Wash out mouth thoroughly with water and give plenty of water to drink. Obtain medical attention.

### 5. Fire-fighting measures

Suitable extinguishing media:

Water spray, dry powder or vaporizing liquids.

Special risks:

Highly flammable. Vapour/air mixture explosive.

# SYSTEM

## SAFETY DATA SHEET

Product name: Ethanol 95% (denatured) with 5% methanol

### 6. Accidental release measures

Shut off all sources of ignition. Wear appropriate protective clothing.

If local regulations permit, mop up with plenty of water and run to waste, diluting greatly with running water. Otherwise absorb on an inert absorbent, transfer to container and arrange removal by disposal company. Ventilate area to dispel residual vapour.

For large spillages liquids should be contained with sand or earth and both liquids and solids transferred to salvage container. Any residues should be treated as for small spillages.

### 7. Handling and storage

Handling:

Take precautions against static discharge. All electrical equipment must be flameproofed.

Storage:

Store at room temperature (+15°C to +25°C recommended). Keep well closed and protected from direct sunlight and moisture. Store small containers in suitable flammable liquid storage cabinets when not in use. Larger drum (200l) must be kept in purpose-built stores.

### 8. Exposure controls/personal protection

As appropriate to the situation and the quantity handled. Engineering methods to control or prevent exposure are preferred. Methods could include process enclosure or mechanical ventilation.

Respiratory protection: Self-Contained breathing apparatus

Ventilation: Fume cupboard, flameproof

Eye protection: Goggles or face-shield

Glove protection: Rubber or plastic

Other Precautions: Plastic apron, sleeves, boots – if handling large quantities

### 9. Physical and chemical properties

Form:	liquid
Colour:	colourless
Odour:	odour of alcohol
pH value	no data available
Viscosity dynamic (20°C)	1.2 CC (Closed cup)
Melting temperature	-114 °C
Boiling temperature	78.2 °C (760 mmHg)
Ignition temperature	363 °C
Flash point	12 °C
Vapour pressure (20°C)	5.85 kPa
Density (20°C)	0.82 g/ml
Solubility in water	completely soluble in water

# SYSTEM

## SAFETY DATA SHEET

Product name: Ethanol 95% (denatured) with 5% methanol

### 10. Stability and reactivity

Stable.

Substances to be avoided

alkali metals, alkaline earth metals, oxidizing agents, halogen-halogen compounds, alkali oxides, nonmetallic halides, anhydrides/acids, ethylene oxide, fluorine, hydrides, mercury compounds, silver compounds.

The possibility of reaction with other substances cannot be excluded.

### 11. Toxicological information

After ingestion: Damage to: mucous membrane. Rapid absorption.

After eye contact: May irritate.

After skin contact: Degreasing effect on the skin, possibly followed by secondary inflammation.

After absorption: euphoria. After a latency period: dizziness, inebriation, paralysis, cyanosis, narcosis, respiratory paralysis.

Further data

LD<sub>50</sub>: 7060 mg/kg oral, rat.

No evidence of carcinogenic properties. Evidence of reproductive effects.

### 12. Ecological information

A harmful effect on aquatic organisms cannot be excluded in the event of improper handling or disposal.

### 13. Disposal considerations

Chemical residues are generally classified as special waste, and as such are covered by regulations which vary according to location. Contact your local waste disposal authority for advice, or pass to a chemical disposal company. Rinse out empty containers thoroughly before returning for recycling.

When recovery and recycling is not possible, incineration in a high temperature incinerator is the recommended method of disposal.

### 14. Transport information

Transport over land ADR/RID

ADR/RID class: 3

Name of material: ETHANOL(ETHYL ALCOHOL)

Sea transport IMDG

IMDG class: 3 UN-No.: 1170 Packaging group: II

Correct technical name: ETHANOL(ETHYL ALCOHOL)

Air transport ICAO-TI and IATA-DGR

ICAO/IATA class: 3 UN/ID-No.: 1170 Packaging group: II

Correct technical name: ETHANOL(ETHYL ALCOHOL)

# SYSTEM

## SAFETY DATA SHEET

Product name: Ethanol 95% (denatured) with 5% methanol

### 15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture  
Water hazard class (WGK) 1

Chemical Safety Assessment  
No data available

### 16. Other information

Signal word Danger

#### Hazard Statements

H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.

#### Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
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.  
P264 Wash skin thoroughly after handling.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
  
P303+P361+P353 If on skin (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.  
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 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.  
P403+P235 Store in a well-ventilated place. Keep cool.  
P501 Dispose of contents/container an approved waste disposal plant.

Revision Date: 01 Jan 2025

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.