



## SAFETY DATA SHEET ETHANOL 70%

### 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

**PRODUCT NAME** ETHANOL 70%

**PRODUCT NO.** M065

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### 2 HAZARDS IDENTIFICATION

Highly flammable.

**CLASSIFICATION** F;R11.

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
ETHANOL	200-578-6	64-17-5	60-100%	F;R11

The Full Text for all R-Phrases are Displayed in Section 16

**EU INDEX NO.** 603-002-00-5

**EC (EINECS) NO.** 200-578-6

### 4 FIRST-AID MEASURES

#### GENERAL INFORMATION

IN ALL CASES OF DOUBT OR WHEN SYMPTOMS PERSIST, ALWAYS SEEK MEDICAL ATTENTION

#### INHALATION

Move affected person to fresh air. If recovery not rapid, seek medical attention.

#### INGESTION

DO NOT INDUCE VOMITING. In case of spontaneous vomiting, be sure that vomit can freely drain because of danger of suffocation. Only when conscious, rinse mouth with plenty of water and give plenty of water to drink - (approx 500ml). Keep patient at rest and obtain medical attention.

#### SKIN CONTACT

Remove contaminated clothing. Wash affected area with plenty of soap and water. If irritation persists, seek medical attention.

# ETHANOL 70%

## EYE CONTACT

Rinse immediately with copious amounts of water. If irritation or discomfort persist, seek medical attention.

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## 5 FIRE-FIGHTING MEASURES

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### EXTINGUISHING MEDIA

Alcohol resistant foam. Carbon dioxide (CO<sub>2</sub>). Dry chemicals, sand, dolomite etc.

### SPECIAL FIRE FIGHTING PROCEDURES

Use gentle application of water spray to keep exposed containers cool or to dissipate vapour.

### UNUSUAL FIRE & EXPLOSION HAZARDS

May explode when heated or when exposed to flames or sparks.

### SPECIFIC HAZARDS

Burning will produce oxides of carbon.

### PROTECTIVE MEASURES IN FIRE

Fire fighters should wear self-contained breathing apparatus.

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## 6 ACCIDENTAL RELEASE MEASURES

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### PERSONAL PRECAUTIONS

Wear appropriate protective clothing. Eliminate all sources of ignition.

### ENVIRONMENTAL PRECAUTIONS

Prevent contamination of soil, drains and surface water.

### SPILL CLEAN UP METHODS

Take-up spillage with absorbent, inert material and place in a suitable and closable xidizi container for recovery or disposal. Wash the area clean with water and detergent, observing environmental requirements. Absorb small quantities with paper towels or other inert material and allow to evaporate in safe place (fume hood/cupboard).

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## 7 HANDLING AND STORAGE

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### USAGE PRECAUTIONS

**HANDLING** – Product should be used in accordance with good industrial principles for handling and storing of hazardous chemicals. Spillages will create a fire hazard. Avoid vapour formation and ignition sources. Avoid inhalation of vapours. Ensure good ventilation and local exhaust extraction in work place. Exhaust engineering controls should be intrinsically safe – [to explosion/flameproof standard]. Take precautions to eliminate build-up of static charge.

### STORAGE PRECAUTIONS

Store in a cool, dry, well ventilated place, in securely closed original container. Keep away from oxidizing agents, heat and flames.

### STORAGE CLASS

Flammable liquid storage.

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## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

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Name	Std	LT – ppm	LT – mg/m3	ST – ppm	ST – mg/m3
ETHANOL	WEL	1000 ppm	1920 mg/m3		
ETHANOL 70%	WEL	1000 No std.		ppm	

### ENGINEERING MEASURES

Provide adequate general and local exhaust ventilation.

### RESPIRATORY EQUIPMENT

For short periods of work, a suitable RPE fitted with appropriate organic vapour cartridge is recommended.

### HAND PROTECTION

Use impervious gloves made of nitrile rubber or PVC.

### EYE PROTECTION

Approved chemical safety goggles or face protection.

### OTHER PROTECTION

Wear personal protective equipment appropriate to the quantity of material handled.

### HYGIENE MEASURES

SKIN PROTECTION – apply barrier cream to hands and exposed skin.

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## 9 PHYSICAL AND CHEMICAL PROPERTIES

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### APPEARANCE

Clear colourless liquid.

### ODOUR

Characteristic, alcoholic odour.

### SOLUBILITY

Miscible with water.

### BOILING POINT (°C)

~ 78°C

### RELATIVE DENSITY

~ 0.79 g/cm<sup>3</sup> @ 20°C

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## 10 STABILITY AND REACTIVITY

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### STABILITY

Stable under normal conditions of use.

### CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition.

### MATERIALS TO AVOID

Oxidising agents. Strong acids.

### HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition or burning will release oxides of carbon.

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## 11 TOXICOLOGICAL INFORMATION

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TOXIC DOSE 1 – LD 50 7060 mg/kg (oral rat)

# ETHANOL 70%

## GENERAL INFORMATION

Intoxicating if inhaled or ingested.

## INHALATION

May cause transient irritation to the respiratory system. Exposure to high vapour concentration may cause central nervous system depression or systemic effects similar to those of ingestion.

## INGESTION

May cause nausea, vomiting, dizziness and depression of CNS.

## SKIN CONTACT

Repeated or prolonged contact may cause mild irritation and / or drying of skin.

## EYE CONTACT

May cause transient eye irritation or damage.

## ROUTE OF ENTRY

Inhalation.

## SPECIFIC EFFECTS

In humans, excessive consumption of alcoholic beverages during pregnancy is associated with reduced birth weight and physical and mental defects in the offspring.

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## 12 ECOLOGICAL INFORMATION

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### ECOTOXICITY

Regarded as having low toxicity to aquatic organisms.

### MOBILITY

Water soluble, will partition to aqueous phase. Lost within short period through evaporation and dissolution. Poorly absorbed onto soils or sediments.

### BIOACCUMULATION

Low bioaccumulation potential.

### DEGRADABILITY

Readily biodegradable.

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## 13 DISPOSAL CONSIDERATIONS

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### DISPOSAL METHODS

This material and/or its container must be disposed of as hazardous waste according to Hazardous Waste Regulations [2005], or according to local regulations, in compliance with Duty of Care Regulations.

### WASTE CLASS

WASTE CODE:0705\*\* HAZARDOUS PROPERTY: H3-A

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## 14 TRANSPORT INFORMATION

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UN NO. ROAD	1170	ADR CLASS NO.	F1
ADR CLASS	3	ADR PACK GROUP	III
HAZARD NO. (ADR)	30	ADR LABEL NO.	3

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## 15 REGULATORY INFORMATION

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### LABELLING



Highly Flammable

### RISK PHRASES

R11 Highly flammable.

### SAFETY PHRASES

S9 Keep container in a well-ventilated place.  
S16 Keep away from sources of ignition - No smoking.  
S51 Use only in well-ventilated areas.

### UK REGULATORY REFERENCES

Chemicals [Hazard Information and Packaging for Supply] Regulations 2002 [as amended].

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## 16 OTHER INFORMATION

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### INFORMATION SOURCES

This product has been classified in accordance with CHIP3 Regulations; (CHIP 2002 as amended).

### REVISION COMMENTS

Edition 05

### ISSUED BY

SK

SDS NO. 10042

DATE 22/12/2010

## ETHANOL 70%

### RISK PHRASES IN FULL

R11 Highly flammable.

### DISCLAIMER

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