

# Material Safety Data Sheet (MSDS) of

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

Product name: Ethanol 96%

Cat. No. A2146 / A2147 / A2148 / A8084 / A21507 / A80935

Manufacturer/supplier identification

Company: Avonchem Ltd Macclesfield, Cheshire, UK SK11 6PJ

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#### 2. Hazards identification

SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT Highly flammable.

# 3. Composition/information on ingredients

Product Name CAS # EC no Annex I

**Index Number** 

ETHANOL FIXATIVE None None None

Ingredient Name Percent CAS # EC no Annex I

**Index Number** 

ETHYL ALCOHOL, ABSOLUTE 96% 64-17-5 200-578-6 603-002-00-5

WATER 4% Symbols: F R-Phrases: 11 Highly flammable. Formula C2H6O

Molecular Weight 46.07 AMU

#### 4. First aid measures

#### AFTER INHALATION

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

#### **AFTER SKIN CONTACT**

In case of contact, immediately wash skin with soap and copious amounts of water.

#### AFTER EYE CONTACT

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

#### **AFTER INGESTION**

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

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# 5. Fire-fighting measures

# **EXTINGUISHING MEDIA**

Suitable: Carbon dioxide, dry chemical powder, or appropriate

foam.

#### SPECIAL RISKS

Specific Hazard(s): Flammable liquid. Vapor may travel considerable distance to source of ignition and flash back.

### SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

SPECIFIC METHOD(S) OF FIRE FIGHTING

Use water spray to cool fire-exposed containers.

#### 6. Accidental release measures

# PERSONAL PRECAUTION PROCEDURES TO BE FOLLOWED IN CASE OF LEAK OR **SPILL**

Evacuate area. Shut off all sources of ignition.

## PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

### **METHODS FOR CLEANING UP**

Cover with dry-lime, sand, or soda ash. Place in covered containers using non-sparking tools and transport outdoors. Ventilate area and wash spill site after material pickup is complete.

### 7. Handling and storage

#### **HANDLING**

Directions for Safe Handling: Do not breathe vapor. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.

#### STORAGE

Conditions of Storage: Keep tightly closed. Keep away from heat, sparks, and open flame.

#### 8. Exposure controls/personal protection

#### **ENGINEERING CONTROLS**

Use only in a chemical fume hood. Safety shower and eye bath.

# **GENERAL HYGIENE MEASURES**

Wash thoroughly after handling.

#### **EXPOSURE LIMITS**

Country Source Type Value Poland NDS 1900 MG/M3

Poland NDSCh -

Poland NDSP -

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# PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.

Hand Protection: Compatible chemical-resistant gloves.

Eye Protection: Chemical safety goggles. Skin Protection: Chemical resistant apron.

#### 9. Physical and chemical properties

Appearance Physical State: Liquid

Property Value At Temperature or Pressure

A/N Hq

BP/BP Range N/A

MP/MP Range N/A

Flash Point 13.0 °C

Flammability N/A

Autoignition Temp N/A

Oxidizing Properties N/A

Explosive Properties N/A

Explosion Limits N/A

Vapor Pressure N/A

SG/Density N/A

Partition Coefficient N/A

Viscosity N/A

Vapor Density N/A

Saturated Vapor Conc. N/A

Evaporation Rate N/A

Bulk Density N/A

Decomposition Temp. N/A

Solvent Content N/A

Water Content N/A

Surface Tension N/A

Conductivity N/A

Miscellaneous Data N/A

Solubility N/A

# 10. Stability and reactivity STABILITY

Stable: Stable.

Materials to Avoid: Acids, Acid chlorides, Acid anhydrides,

Oxidizing agents, Reducing agents, Alkali metals.

#### HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Nature of decomposition products

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not known.

# HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

# 11. Toxicological information

# SIGNS AND SYMPTOMS OF EXPOSURE

Can cause CNS depression. Exposure can cause: Narcotic effect.

Nausea, headache, and vomiting. Damage to the heart. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

#### **ROUTE OF EXPOSURE**

Skin Contact: May cause skin irritation.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: May cause eye irritation.

Inhalation: Material may be irritating to mucous membranes and upper respiratory tract. May

be harmful if inhaled.

Ingestion: May be harmful if swallowed.

#### TARGET ORGAN INFORMATION

Nerves. Liver. Heart.

CONDITIONS AGGRAVATED BY EXPOSURE

Alcohol has been linked to birth defects and cancer in humans.

Repeated ingestion over a prolonged period has caused liver and kidney damage. IARC has determined that ethanol is carcinogenic based on the chronic exposure of humans through the drinking of alcoholic beverages over time.

# **CHRONIC EXPOSURE - CARCINOGEN**

Result: This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification

# 12. Ecological information

No data available.

# 13. Disposal considerations SUBSTANCE DISPOSAL

Contact a licensed professional waste disposal service to dispose of this material. Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations.

### 14. Transport information

RID/ADR UN#: 1170 Class: 3 PG: II

Proper Shipping Name: Ethanol

IMDG UN#: 1170

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Class: 3 PG: II

Proper Shipping Name: ETHANOL

Marine Pollutant: No

Severe Marine Pollutant: No

IATA

UN#: 1170 Class: 3 PG: II

Proper Shipping Name: Ethanol Inhalation Packing Group I: No

# 15. Regulatory information CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES

INDICATION OF DANGER: F

Highly Flammable. R-PHRASES: 11 Highly flammable. S-PHRASES: 7-16

Keep container tightly closed. Keep away from sources of

ignition - no smoking.

**COUNTRY SPECIFIC INFORMATION** 

Germany WGK: 1

Self-Classification

### 16. Other information

Revised February 2013