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## MATERIAL SAFETY DATA SHEET

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

#### 1.1 Product identifiers

**Product name:** Industrial Methylated Spirits 90%  
**CAS number:** 64-17-5  
**Index number:** 200-578-6  
**Reach number:** This product is a mixture. REACH registration numbers see section 3.  
**Product number:** IMS090, IMS905  
**Synonyms:** Ethanol 90% denatured with methanol  
**Brand:** Solmedia Ltd

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

Laboratory Chemicals

#### 1.3 Details of the supplier of the safety data sheet

**Name of Supplier:** Solmedia Ltd.  
**Address of Supplier:** Unit 2, Vernon Drive  
 Battlefield Enterprise Park  
 Shrewsbury  
 SY1 3TF  
 UK  
**Telephone:** 0844 80 80 900  
**Email:** [labsupplies@solmedialtd.com](mailto:labsupplies@solmedialtd.com)

#### 1.4 Emergency telephone number

**Emergency Phone:** +44 (0)844 80 80 900

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification under CLP:**

Hazard Classes and Hazard Categories	Hazard Statements
Flammable liquid, category 2	H225
Acute toxicity, category 4, oral	H302
Eye irritation, category 2	H319
Specific target organ toxicity (single exposure), category 2	H371

#### 2.2 Label elements

Hazard Statements	
H225	Highly flammable liquid and vapour.

H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H371	May cause damage to organs.

**Signal words:** Danger

**Hazard pictograms:**

GHS02: Flame

GHS07: Exclamation mark

GHS08: Health Hazard



**Precautionary statements:**

Precautionary Statements	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P243	Take precautionary measures against static discharge.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P311	IF exposed or concerned: Call a POISON CENTER/doctor.
P403+P235	Store in a well-ventilated place. Keep cool.

### 2.3 Other hazards

**Other hazards:** In use, may form flammable / explosive vapour-air mixture.

**PBT:** This product is not identified as a PBT/vPvB substance.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Substance name	Concentration	Identifier	Hazard classes and hazard categories
Ethanol absolute	> 85.0%	CAS No.: 64-17-5 EC No.: 200-578-6 REACH No.: 01-2119457610-43-XXXX	Flam. Liq. 2 - H225 Eye Irrit. 2 - H319

Methanol	1- 5.0%	CAS No.: 67-56-1 EC No.: 200-659-6 REACH No.: 01-2119433307-44- XXXX	Flam. Liq. 2 - H225 Acute Tox. 3 - H301+H311+H331 STOT SE 1 - H370
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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- General information:** IF exposed or if you feel unwell: Call a POISON CENTRE or doctor/physician. If unconscious but breathing normally, place in recovery position and seek medical advice. Never give anything by mouth to an unconscious person or a person with cramps. Change contaminated, saturated clothing. Do not leave affected person unattended.
- Skin contact:** After contact with skin, wash immediately with plenty of water and soap. Remove contaminated, saturated clothing immediately. In case of skin reactions, consult a physician.
- Eye contact:** In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye. Remove contact lenses, if present and easy to do. Continue rinsing.
- Ingestion:** If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do NOT induce vomiting. Give nothing to eat or drink.
- Inhalation:** Call a POISON CENTRE/doctor. Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration.

### 4.2 Most important symptoms and effects, both acute and delayed

No data available.

### 4.3 Indication of any immediate medical attention and special treatment needed

No data available.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Water spray, ABC-powder, Carbon dioxide (CO<sub>2</sub>), Nitrogen

### 5.2 Special hazards arising from the substance or mixture

In case of fire may be liberated: Pyrolysis products, toxic

### 5.3 Advice for firefighters

DO NOT fight fire when fire reaches explosives.  
Special protective equipment for firefighters  
Wear a self-contained breathing apparatus and chemical protective clothing.

#### **Additional Information:**

Do not allow run-off from fire-fighting to enter drains or water courses.  
Do not inhale explosion and combustion gases.  
Use caution when applying carbon dioxide in confined spaces.  
Carbon dioxide can displace oxygen.  
Use water spray jet to protect personnel and to cool endangered containers.  
In case of fire: Evacuate area.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

In case of major fire and large quantities: Remove persons to safety.

### 6.2 Environmental precautions

Discharge into the environment must be avoided.

### 6.3 Methods and materials for containment and cleaning up

Spilled product must never be returned to the original container for recycling. Collect in closed and suitable containers for disposal.

### 6.4 Reference to other sections

Clear spills immediately.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

All work processes must always be designed so that the following is as low as possible:

Inhalation, Skin contact, Eye contact

Use extractor hood (laboratory).

If handled uncovered, arrangements with local exhaust ventilation have to be used. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means.

### 7.2 Conditions for safe storage, including any incompatibilities

Recommended storage temperature: no data available  
 Storage class: no data available  
 Keep container tightly closed and in a well-ventilated place.  
 Keep/Store only in original container.

### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Does not contain substances above concentration limits fixing an occupational exposure limit.

### 8.2 Exposure controls

#### Engineering measures:

Technical measures and the application of suitable work processes have priority over personal protection equipment. If handled uncovered, arrangements with local exhaust ventilation have to be used.

#### Respiratory protection:

Respiratory protection necessary at: aerosol or mist formation  
 Suitable respiratory protection apparatus:  
     Full-/half-/quarter-face masks (DIN EN 136/140)  
 Suitable material: ABEK2P3

#### Hand protection:

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits.  
 Recommended glove articles DIN-/EN-Norms EN ISO 374 In the case of wanting to use the gloves again, clean them before taking off and air them well.

By short-term hand contact	
Suitable material:	NBR (Nitrile rubber)
Thickness of the glove material:	-
Breakthrough time:	240-480 min

By long-term hand contact	
Suitable material:	NBR (Nitrile rubber)
Thickness of the glove material:	0,425 mm
Breakthrough time:	> 480 min

**Eye protection:** Eye glasses with side protection DIN-/EN-Norms: DIN EN 166

**Skin protection:** Protective clothing

<b>Environmental:</b>	No data available.
<b>Additional:</b>	Wash hands before breaks and after work. Avoid contact with eyes and skin. When using do not eat, drink or smoke. Provide eye shower and label its location conspicuously.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>State:</b>	Liquid
<b>Colour:</b>	Colourless
<b>Odour:</b>	Alcoholic
<b>Odour threshold:</b>	No data available
<b>pH:</b>	No data available
<b>Melting point/freezing point:</b>	No data available
<b>Initial boiling point and boiling range:</b>	No data available
<b>Flash point:</b>	12 °C (closed cup)
<b>Evaporation rate:</b>	No data available
<b>Flammability (solid, gas):</b>	Highly flammable liquid and vapour.
<b>Flammability or explosive limits</b>	
<b>Lower explosion limit:</b>	No data available
<b>Upper explosion limit:</b>	No data available
<b>Vapour pressure:</b>	No data available
<b>Vapour density:</b>	No data available
<b>Relative density:</b>	0.793 g/cm <sup>3</sup> (20 °C)
<b>Solubility(ies)</b>	
<b>Water solubility:</b>	No data available
<b>Soluble (g/L) in Ethanol:</b>	No data available
<b>Partition coefficient:</b>	
<b>n-octanol/water:</b>	No data available
<b>Auto-ignition temperature:</b>	No data available
<b>Decomposition temperature:</b>	No data available
<b>Viscosity</b>	
<b>Kinematic viscosity:</b>	No data available
<b>Dynamic viscosity:</b>	No data available
<b>Explosive properties:</b>	Not applicable
<b>Oxidising properties:</b>	Not applicable

## 9.2 Other safety information

<b>Bulk density:</b>	No data available
<b>Refraction index:</b>	No data available
<b>Dissociation constant:</b>	No data available
<b>Surface tension:</b>	No data available
<b>Henry's Law Constant:</b>	No data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to avoid

Heat. Flames. Sources of ignition

### 10.5 Incompatible materials

Strong oxidising agents.

### 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

Other decomposition products - No data available

In the event of fire: see section 5

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Toxicity values:

Route	Species	Test	Value	Units
ORAL	RAT	LD50	<b>3,523</b>	mg/kg

#### Relevant hazards for substance:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	INH DRM	Based on test data
Skin corrosion/irritation	DRM	Based on test data
STOT-single exposure	INH	Based on test data
STOT-repeated exposure	-	Based on test data
Aspiration hazard	-	Based on test data

#### Symptoms / routes of exposure

**Skin contact:** No data available.

**Eye contact:** No data available.

**Ingestion:** No data available.

**Inhalation:** No data available.

**Delayed / immediate effects:** Prolonged or repeated exposure to skin causes defatting and dermatitis

**Other information:** After absorption:

Systemic effects:

Headache, somnolence, Dizziness, euphoria, agitation, spasms, respiratory paralysis, unconsciousness, narcosis, inebriation

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## SECTION 12: Ecological information

### 12.1 Toxicity

**Ecotoxicity values:** No data available

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

This product is not identified as a PBT/vPvB substance.

### 12.6 Other adverse effects

Toxic to aquatic organisms.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

**Disposal operations:** Offer surplus and non-recyclable solutions to a licensed disposal company. Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

**Recovery operations:** Not applicable.

**Disposal of packaging:** Dispose of as unused product.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

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## SECTION 14: Transport information



**14.1 UN number**

UN1307

**14.2 UN proper shipping name**

ETHANOL SOLUTION

**14.3 Transport hazard class(es)**

3

**14.4 Packaging group**

3

**14.5 Environmental hazards**

No

**14.6 Special precautions for user**

No special precautions

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**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

**15.2 Chemical safety assessment**

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

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**SECTION 16: Other information**

**Other information:** This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

\* indicates text in the SDS which has changed since the last revision.

**Phrases used in s.2 and 3:**

H226: Flammable liquid and vapour.

H304: May be fatal if swallowed and enters airways.

H312+332: Harmful in contact with skin or if inhaled.

H315: Causes skin irritation.

H335: May cause respiratory irritation.

H373: May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

R10: Flammable.

R20/21: Harmful by inhalation and in contact with skin.

R38: Irritating to skin. Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Solmedia Ltd shall not be held liable for any damage resulting from handling or from contact with the above product.