
MATERIAL SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifiers**

Product name: Industrial Methylated Spirits 95%
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: IMS095, IMS995
Synonyms: Ethanol 95% 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

1.4 Emergency telephone number

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

SECTION 2: Hazard's 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

Hazardous ingredients Classification according to Regulation (EC) No 1272/2008 [CLP]

Substance name	Concentration	Identifier	Hazard classes and hazard categories
Ethanol absolute	93 – 97%	CAS No.: 64-17-5 EC No.: 200-578-6 REACH No.:	Flam. Liq. 2 - H225 Eye Irrit. 2 - H319

		01-2119457610-43-XXXX	
Methanol	3 – 7%	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

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.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Water spray, ABC-powder, Carbon dioxide (CO₂), 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.

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.

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
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Skin protection:	Protective clothing
Environmental:	No data available.
Additional:	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

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

Oxidising properties: Not applicable

9.2 Other safety information

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

Acute effects

Acute oral toxicity:

Ethanol absolute - LD50: > 6200 mg/kg - Rat - (Merck KGaA)
Methanol - LD50: > 5628 mg/kg - Rat - (IUCLID)
Methanol - LDLo: > 143 mg/kg - Human - (RTECS)

Acute dermal toxicity:

Ethanol absolute - LD50: < 20000 mg/kg - Rabbit - (CHP)
Methanol - LD50: > 15800 mg/kg - Rabbit

Acute inhalation toxicity:

Ethanol absolute - LC50: < 8000 mg/l (4h) - Rat - (CHP)

Methanol - TCLo: > 160 ppm (4h) – Human

Irritant and corrosive effects

Primary irritation to the skin:

Not applicable

Irritation to eyes:

Causes serious eye irritation.

Irritation to respiratory tract:

Not applicable

Respiratory or skin sensitisation

In case of skin contact:

Not sensitising

After inhalation:

Not sensitising

STOT-single exposure

May cause damage to organs.

STOT-repeated exposure

Not applicable

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity

No indication of human carcinogenicity.

Germ cell mutagenicity

No indications of human germ cell mutagenicity exist.

Reproductive toxicity

No indications of human reproductive toxicity exist.

Aspiration hazard

Not applicable

Other adverse effects

No data available

Additional information

No data available

SECTION 12: Ecological information

12.1 Ecotoxicity

Fish toxicity: Ethanol absolute - LC50: 11000 mg/l (96 h)
Methanol - LC50: 24000 mg/l (96 h)

Daphnia toxicity: Ethanol absolute - LC50: 9280 mg/l (48 h)
Ethanol absolute - EC50: 9950 mg/l (48 h)
Methanol - LC50: 3290 mg/l (48 h)
Methanol - EC50: 24500 mg/l (48 h)

Algae toxicity: No data available

Bacteria toxicity: 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

No data available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Disposal operations:

Dispose according to local legislation. Consult the appropriate local waste disposal expert about waste disposal.

Waste code product: no data available

Handle contaminated packages in the same way as the substance 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.

SECTION 14: Transport information

14.1 UN number

UN1170

14.2 UN proper shipping name

ETHANOL SOLUTION

14.3 Transport hazard class(es)

3

Classification code: F1

Hazard label(s): 3

14.4 Packaging group

II

14.5 Environmental hazards

No

14.6 Special precautions for user

Hazard identification number (Kemler No.):

33

Tunnel restriction code:

D/E

(Passage forbidden through tunnels of category D when carried in bulk or in tanks. Passage forbidden through tunnels of category E.)

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.

SECTION 16: Other information

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

Phrases used in s.2 and 3:

H225 - Highly flammable liquid and vapour.

H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled.

H319 - Causes serious eye irritation.

H370 - Causes damage to organs.

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.