Scientific Laboratory Supplies - Safety Data Sheet

CHE2542

(in accordance with regulation (EU) 2015/830 and regulation (EC) 1272/2008)

Revision: 1.1 Revision date:

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Section 1. Identification

1.1 Product Identifier CHE2542

Product Name METHANOL tech. 25L.

CAS Number 67-56-1

REACH Registration No 01-2119433307-44-XXXX

Molecular Formula CH, OH =32.04

1.2 Relevent identified uses of the substance or mixure & uses advised against

Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.

1.3 Supplier Scientific Laboratory Supplies



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Fairham Nottingham NG11 2AF

UNITED KINGDOM

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1.4 Emergency Telephone (08:00-17:00) 0115 9821111

(24hr) 112 (Have this document to hand)

Section 2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to regulation 1272/2008/EC

Flammable liquid, category 2 H225: Highly flammable liquid and vapour.

Acute toxicity, category 3 (oral)

H301: Toxic if swallowed.

Acute toxicity, category 3 (dermal)

H311: Toxic in contact with skin.

Acute toxicity, category 3 (inhalation) H331: Toxic if inhaled.

Spec target organ tox - single, category 1 H370: Causes damage to organs.

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms





Ref: CHE2542



Highly flammable liquid and vapour. Toxic if swallowed, inhaled and in contact with skin. Causes damage to Hazard Statements

eyes & central nervous system.

Precautionary Statements Keep away from heat / sparks/open flames/hot surfaces - No smoking. Wear protective gloves / protective

clothing / eye protection. Do not breathe fume/vapours. Do not eat, drink or smoke when using this product. Store

in a well ventilated place. Keep cool. Keep container tightly closed.

Section 3. Composition

3.1 Substances

Component CAS No. EEC No.		REACH No.	Conc w/w	CLP Classification (1272/2008/CE)	
Methanol	67-56-1	200-659-6	01-2119433307-44-XXXX	>99.5%	Flam. Liq. 2,Acute Tox. 3 (O),Acute Tox. 3 (D),Acute Tox. 3 (I),STOT SE 1

Section 4. First Aid

4.1 Description of first aid measures

Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. OBTAIN MEDICAL Eves

ATTENTION.

Skin Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash before re-use.

Remove from exposure. Keep warm and at rest. If there is difficulty in breathing give oxygen if available. If Inhalation

breathing stops or shows signs of failing, apply artificial resuscitation. If unconscious place in the recovery position. OBTAIN MEDICAL ATTENTION URGENTLY.

Ingestion If conscious give plenty of water to drink. Do not induce vomiting. If there is difficulty in breathing give oxygen

if available. If breathing stops or shows signs of failing, apply artificial resuscitation. If unconscious place in the recovery position. OBTAIN MEDICAL ATTENTION URGENTLY.

Personal protection for first Wear protective gloves / eye protection.

4.2 Most important symptoms and effects, both acute & delayed.

No further relevant information available.

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

No further relevant information available.

Section 5. Fire Fighting

5.1 Extinguishing media

Water spray, alcohol resistant foam, dry powder or carbon dioxide. Use water spray to keep fire exposed Extinguishing Media

containers cool.

Unsuitable Media Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards Vapour-air mixtures are explosive.

5.3 Advice for firefighters

Advice for firefighters Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear

protective clothing and breathing apparatus.

Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Protection Ensure no sources of ignition. Avoid breathing vapour. Use approved personal protective equipment. Evacuate

area immediately. Do not allow general use of area until it is safe to do so.

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6.2 Environmental precautions

Enviromental Keep material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local

Environmental Health Officer if major spillage occurs.

6.3 Methods and material for containment and cleaning up

Major Spillage Contain and absorb on inert material. Transfer absorbent to salvage container for removal. Wash area down with

copious amounts of water.

Minor Spillage Contain and absorb on inert material. Transfer absorbent to container for removal. Allow solvent to evaporate in

remote area, then dispose of absorbent as solid chemical waste. Wash area down with copious amounts of water.

6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

Section 7. Storage & Handling

7.1 Precautions for safe handling

All transfer systems should be earthed to prevent accumulation of static electricity. Avoid contact with skin and eyes. Do not breath vapours. Do not allow to contaminate clothing.

Ensure Local Exhaust Ventilation maintains vapour concentrations below the recommended limits.

7.2 Conditions for safe storage, including any incompatibilities

Well ventilated, cool, dry storage . Protect from direct sun and store away from sources of ignition. Keep containers closed when not in use. Keep well separated from oxidising agents.

7.3 Specific end use(s)

See section 1.2.

Section 8. Workplace Exposure & Personal Protection

8.1 Control parameters

Component	CAS No	Concentration	Concentration Workplace Exposure Limits				
			Long Term (8hr TWA)		Short Term 15min period)		
Methanol	67-56-1	>99.5%	200.0 ppm	266.0 mg/m-3	250.0 ppm	333.0 mg/m-3	

Exposure data source(s) IOELV: Indicative Occupational Exposure Limit Value.

8.2 Exposure controls

maintained chemical cartridge organic vapour respirator, or use self contained breathing apparatus.

Hand Protection Use solvent resistant gloves.

Skin Protection Avoid contact with skin. If skin contact or contamination of clothing is likely, protective clothing must be worn.

Special Hazards No special precautions required.

Section 9. Physical & Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance Clear colourless liquid.
Odour Fresh and characteristic.

pH Not applicable
Boiling Point 64.8°C
Melting Point -97.8°C

Flash Point 12°C (Closed cup)

Upper Flammable Limit
Lower Flammable Limit
Auto Ignition

36.5%
6%
385°C

Explosive Properties Moderate/severe in confined spaces.

Oxidising Properties No.

Vapour Pressure 100mmHg @ 20°C

Relative Density 0.7900

Water Solubility Completely miscible in water.

9.2 Other information

No data available.

Section 10. Stability & 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 Hot surfaces, naked flames or other sources of ignition.

10.5 Incompatable Materials Bromine. Sodium hypochlorite, diethyl zinc, dialkylaluminium solutions, and phosphorous trioxide. Nitric acid,

hydrogen peroxide, sodium and chloroform and potassium tertiary butoxide. Lead perchlorate.

10.6 Hazardous Decomposition

Products

None unusual. Burning will produce smoke, carbon monoxide and/or carbon dioxide.

Section 11. Toxicological Information

11.1 Information on toxicological effects

Eyes Both the vapour and liquid are, very dangerous to the eyes since methanol has a specific effect on the optic nerve

and retina.

Skin Repeated exposure may cause dermatitis. Many of the effects typical of the vapour can result from absorbtion

through the skin.

LD50 Skin 17100 mg/kg Rabbit

Ingestion Ingestion will cause symptoms resembling those of alcoholic intoxication ie excitation and irritability. After a

latent period of 10-15 hours more serious damage to the central nervous system especially to the optic nerve

occurs. Even if death does not occur permanent blindness may occur.

LD50 Oral 1187 - 2769 mg/kg Rat

Inhalation Exposure to vapour concentrations above the occupational exposure limits may cause headache, nausea, vomiting

and irritation of the mucous membranes. High concentrations of vapour may damage the central nervous system and cause blindness. Due to the slow metabolism of the toxic metabolites formic acid and formaldehyde the

effects can be cumulative and continued exposure to low levels may cause the above effects.

LD50 Inhalation 128.2 mg/l Rat (4 hours)

TCLo Not available

Carcinogenicity Not considered to be a carcinogen.

Mutagenicity Not considered to be a mutagen.

Reproductive Effects High vapour concentrations (10000 ppm) caused increased congenital malformations.

Section 12. Ecological

Substantially biodegradable in water, biological oxygen demand (B.O.D.) 5 day 70%. No evidence of inhibition to the aerobic treatment process at 39500mg/l but evidence of inhibition occurs at concentrations greater than 12.1 Toxicity

79000mg/l.

LC50 Algal Not available

LC50 Crustacea >10000mg/l Daphnia magna (96 hours)

LC50 Fish 15400mg/l Bluegill (Lepomis macrochirus) (96 hours)

12.2 Persistence and Readily bio-degraded in the environment.

degradability

12.3 Bioaccumulative potential No data available.

12.4 Mobility in soil No data available.

Results of PBT & vPvB Assessment not required.

assessment

12.6 Other adverse effects None known at present.

Section 13. Disposal Considerations

13.1 Waste treatment methods

Disposal Methods Dispose of in a licensed incinerator for organic solvents. Do not dispose of as domestic waste. Never dispose of

into water courses or sewerage systems due to high risk of explosion.

Contaminated Packaging Use a licensed waste disposer. Do not attempt to burn any residual liquids due to risk of explosion.

Section 14. Transport Information

14.1 UN Number 123014.2 Proper Shipping Name Methanol

14.3 Transport classes

UN classification 3
Subsidiary hazard(s) 6.1
Transport category 2
ADR Hazard ID 336
Tunnel Restriction Code D/E

14.4 Packing Group II

14.5 Environment hazards See section 12.

14.6 Special precautions for No special precautions required.

user

14.7 Transport in bulk Not transported in bulk.



Section 15. Regulatory Information

15.1 Safety, health and environment regulations specific for subtance/mixture.

Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

Classification Flammable liquid, category 2; Acute toxicity, category 3 (oral); Acute toxicity, category 3 (dermal); Acute toxicity,

category 3 (inhalation); Spec target organ tox - single, category 1

Signal word Danger

Hazard Pictograms







Hazard Statements H225, H301+H311+H331, H370

Highly flammable liquid and vapour. Toxic if swallowed, inhaled and in contact with skin. Causes damage to

eyes & central nervous system.

Precautionary Statements P210, P280, P260, P270, P403+P235, P233

Keep away from heat / sparks/open flames/hot surfaces - No smoking. Wear protective gloves / protective clothing / eye protection. Do not breathe fume/vapours. Do not eat, drink or smoke when using this product. Store

in a well ventilated place. Keep cool. Keep container tightly closed.

15.2 Chemical safety assessment

Assessment not required.

Section 16. Other Information

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

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