Scientific Laboratory Supplies - Safety Data Sheet

CHE255(

04 March 2013

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

Revision: 1.0 Revision date:

Date printed: 16 June 2020

Section 1. Identification

1.1 Product Identifier CHE2556

Product Name METHYL METHACRYLATE pure 500ml.

CAS Number 80-62-6

REACH Registration No 01-2119452498-28-XXXX

Molecular Formula CH₂:C(CH₃)COOCH₃ =100.12

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



Wilford Industrial Estate

Ruddington Lane

Wilford Nottingham NG11 7EP

UNITED KINGDOM

Phone 0115 9821111 Fax 0115 9825275

Email sales@scientific-labs.com

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 (Flam. Liq. 2). Skin corrosion/irritation, category 2 (Skin Irrit. 2). Skin sensitization, category 1 (Skin Sens. 1). Spec target organ tox - single, category 3 (STOT SE 3).

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms





Hazard Statements Highly flammable liquid and vapour. May cause respiratory irritation. Causes skin irritation. May cause an allergic skin reaction.

Precautionary Statements

Keep away from heat / sparks/open flames/hot surfaces - No smoking. Wear protective gloves / protective clothing / eye protection. Avoid breathing dust / fume / gas / mist / vapours / spray. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or a rash occurs: Get medical advice/attention. Store in a well ventilated place. Keep cool.

Section 3. Composition

3.1 Substances

Component	nt CAS No. EEC No.		REACH No.	Conc w/w	CLP Classification (1272/2008/CE)	
Methyl methacrylate	80-62-6	201-297-1	01-2119452498-28-XXXX	>99.9%	Flam. Liq. 2,Skin Irrit. 2,Skin Sens. 1,STOT SE 3	

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 Eyes

ATTENTION URGENTLY.

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

OBTAIN MEDICAL ATTENTION URGENTLY.

Inhalation Remove from exposure. Keep warm and at rest. 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.

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

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

Alcohol resistant foam, dry powder, or carbon dioxide. Use water spray to keep fire exposed containers cool. Extinguishing Media

Unsuitable Media Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards Vapour-air mixtures are explosive. May polymerise on heating, sealed containers may rupture explosively if

heated.

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. Beware: vapour is heavier than air and

will tend to accumulate at low spots.

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. Ensure temperature does not reach more than 25 C Keep well separated from oxidising agents and peroxides.

7.3 Specific end use(s)

See section 1.2.

Section 8. Workplace Exposure & Personal Protection

8.1 Control parameters

Component	CAS No	Concentration	Workplace Exposure Limits				
			Long Term (8hr TWA)		Short Term 15min period)		
Methyl methacrylate	80-62-6	>99.9%	50.0 ppm	100.0 mg/m-3	208.0 ppm	416.0 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.

Eye Protection Use tightly fitting chemical splash proof glasses or goggles.

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 Characteristic acrylic odour.

pH Not applicable
Boiling Point 101°C
Melting Point -48°C

Flash Point 8°C (Closed cup)

Upper Flammable Limit 12.5% Lower Flammable Limit 2.1% Auto Ignition 435°C

Explosive Properties Has a tendency to polymerise and this may become explosive.

Oxidising Properties No.

Vapour Pressure 29mmHg @ 20°C

Relative Density 0.9490

Water Solubility Moderately soluble 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 but can polymerise if heated.

Possibility of hazardous

reactions

No data available.

10.4 Conditions to Avoid Heat and polymerisation initiators.

10.5 Incompatable Materials Polymerised by oxygen and peroxides, this polymerisation can become violently exothermic.

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

Products

Section 11. Toxicological Information

11.1 Information on toxicological effects

Both the vapour and liquid may, be irritating to the eyes. Eyes

Skin The liquid is mildly irritating to the skin. Chronic exposure may lead to sensitisation and dermatitis.

LD50 Skin >35000mg/kg Rabbit

Ingestion Ingestion will produce gastric disturbances, vomiting, narcosis, paralysis and liver and kidney damage.

LD50 Oral 7900mg/kg Rat

Inhalation Exposure to vapour concentrations above the occupational exposure limits will produce irritation of the eyes,

nose, throat and respiratory tract. Prolonged exposure to vapour concentrations above the occupational exposure

limits may cause narcosis. Fatal cases of inhalation exposure have occurred.

LD50 Inhalation Not available TCLo 12500ppm

Carcinogenicity It is suspected as a long term carcinogen in man but evidence is inconclusive.

Mutagenicity May be a mutagen.

Reproductive Effects Not teratogenic but high doses have caused maternal and foetal toxicity. Other Information The irritant effect provides warning that control of exposure is needed.

Section 12. Ecological

12.1 Toxicity Partially biodegradable in water (BOD 5 day) 0.14-0.9 g/g. (THOD) 1.92 g/g. Low toxicity to fish- LC50

(bluegill sunfish) 96hr - 232 mg/l. Substantially removed in biological treatment processes, but has high potential

to bioaccumulate.

LC50 Algal Not available Not available LC50 Crustacea LC50 Fish Not available 12.2 Persistence and No data available.

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

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

LAMMABLE

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 1247

14.2 Proper Shipping Name Methyl methacrylate monomer, stabilized

14.3 Transport classes

UN classification 3
Subsidiary hazard(s) None
Transport category 2
ADR Hazard ID 339
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.



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; Skin corrosion/irritation, category 2; Skin sensitization, category 1; Spec target organ

tox - single, category 3

Signal word Danger

Hazard Pictograms





Hazard Statements H225, H335, H315, H317

Highly flammable liquid and vapour. May cause respiratory irritation. Causes skin irritation. May cause an

allergic skin reaction.

Precautionary Statements P210, P280, P261, P302+P352, P333+P313, P403+P235

Keep away from heat / sparks/open flames/hot surfaces - No smoking. Wear protective gloves / protective clothing / eye protection. Avoid breathing dust / fume / gas / mist / vapours / spray. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or a rash occurs: Get medical advice/attention. Store in a well ventilated

place. Keep cool.

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.

Revision number: 1.0

Revision date: 04 March 2013

Reviewed by chemist: 20 October 2014

Printed date: 16 June 2020

Copyright: 2020 Scientific Laboratory Supplies