SAFETY DATA SHEET

METHYL METHACRYLATE

Compilation date: 17/02/2014

Revision No: 1

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: METHYL METHACRYLATE

CAS number: 80-62-6

EINECS number: 201-297-1

Index number: 607-035-00-6

Product code: A69401

Synonyms: METHACRYLIC ACID METHYL ESTER

METHYL 2-METHYLPROP-2-ENOATE

METHYL 2-METHYLPROPENOATE

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

1.3. Details of the supplier of the safety data sheet

Company name: Philip Harris Ltd

2 Gregory Street

Hyde

Cheshire

SK14 4HR

United Kingdom

Tel: +44 (0)845 1200 506

Fax: +44 (0)161 367 2140

Email: enquiries@philipharris.co.uk

1.4. Emergency telephone number

Emergency tel: +44 (0) 845 1200 506

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Flam. Liq. 2: H225; STOT SE 3: H335; Skin Irrit. 2: H315; Skin Sens. 1: H317

Classification under CHIP: F: R11; Xi: R37/38; Sens.: R43

Most important adverse effects: Highly flammable liquid and vapour. May cause respiratory irritation. Causes skin irritation. May cause an allergic skin reaction.

2.2. Label elements

Label elements under CLP:

Hazard statements: H225: Highly flammable liquid and vapour.

H335: May cause respiratory irritation.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

[cont...]

Signal words: Danger

Hazard pictograms: GHS02: Flame

GHS07: Exclamation mark

2.3. Other hazards

Section 3: Composition/information on ingredients

3.1. Substances

Chemical identity: METHYL METHACRYLATE

Section 4: First aid measures

4.1. Description of first aid measures

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 Doctor

Eye contact: Bathe the eye with running water for 15 minutes. Protect Uninjured eye. Remove contact lenses, if present and easy to do. Consult a doctor.

Ingestion: Seek urgent medical attention.

Inhalation: Move to fresh air in case of accidental inhalation of vapours. Keep Patient warm. If breathing is irregular or stopped, administer artifical respiration. Consult a doctor.

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

Skin contact: May be harmful if absorbed through skin. May cause skin irritation.

Eye contact: There may be irritation and redness.

Ingestion: May be harmful if swallowed.

Inhalation: May be harmful if inhaled. may cause respiratory tract irritation.

Delayed / immediate effects: No data available.

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

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: CO2, extingushing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In case of fire may be liberated: Carbon Dioxide (CO2) Carbon monoxide Danger of containers bursting upon heating.

[cont...]

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Wear protective equipment. Keep Unprotected persons away. Ensure adequate ventilation.

6.2. Environmental precautions

Environmental precautions: Do not allow to enter into soil/subsoil. Do not discharge into drains or rivers.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Spilled product must never be returned to the original container for recycling. Take up carefully when dry.

6.4. Reference to other sections

Reference to other sections: See section 7. Refer to section 8 of SDS. Refer to section 13 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Keep containers tightly sealed. Store in cool, Dry place in tighlty closed containers. Ensure good ventilation/exhaustion at the work place. Protect against electrostatic charges. Fumes can combine with air to form explosive mixture.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Keep Container tightly closed in a cool, well-ventilated place. Store in the Dark. Protect from heat. Store away from oxidising agents.

Suitable packaging: Keep containers tightly sealed. Store in cool, Dry place in tighlty closed containers. Ensure good ventilation/exhaustion at the work place.

7.3. Specific end use(s)

Specific end use(s): No data available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits: **Respirable dust**

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	50 ppm	100 ppm	-	-

[cont...]

8.1. DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

Respiratory protection: Use breathing protection with high concentrations.

Hand protection: Impermeable gloves.

Eye protection: Safety glasses. Face-shield.

Skin protection: Protective clothing. Avoid contact with skin and eyes. Wash hands before breaks and after work. When using do not eat, drink or smoke.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Colourless

Odour: Acrid

Evaporation rate: No data available

Oxidising: No data available

Solubility in water: 1.6 g/l

Also soluble in: No data available.

Viscosity: No data available

Viscosity test method: No data available.

Boiling point/range°C: 100-101°C **Melting point/range°C:** -48°C

Flammability limits %: lower: 2.1 Vol% **upper:** 12.5 Vol%

Flash point°C: 10°C

9.2. Other information

Other information: Steam pressure at 20°C : 47hPa Density at 20°C : 0.939 g/cm³

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: No data available.

10.2. Chemical stability

Chemical stability: Stable under recommended storage conditions

10.3. Possibility of hazardous reactions

Hazardous reactions: Danger of polymerisation.

[cont...]

10.4. Conditions to avoid

Conditions to avoid: Heat. Light. Ultraviolet radiation.

10.5. Incompatible materials

Materials to avoid: Oxidising agents.

10.6. Hazardous decomposition products

Haz. decomp. products: Carbon Monoxide and Carbon Dioxide. Unless inhibited, the product can polymerize resulting in a temperature and pressure increase that may rupture the container.

Section 11: Toxicological information

11.1. Information on toxicological effects

Toxicity values:

Route	Species	Test	Value	Units
IPR	RAT	LD50	1328	mg/kg
ORL	MUS	LD50	3625	mg/kg
ORL	RAT	LD50	7872	mg/kg

Relevant hazards for substance:

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Based on test data
Respiratory/skin sensitisation	DRM	Based on test data
STOT-single exposure	INH	Based on test data

Symptoms / routes of exposure

Skin contact: May be harmful if absorbed through skin. May cause skin irritation.

Eye contact: There may be irritation and redness.

Ingestion: May be harmful if swallowed.

Inhalation: May be harmful if inhaled. may cause respiratory tract irritation.

Delayed / immediate effects: No data available.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values: No data available.

12.2. Persistence and degradability

Persistence and degradability: No data available.

12.3. Bioaccumulative potential

Bioaccumulative potential: No data available.

[cont...]

12.4. Mobility in soil

Mobility: No data available.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT substance.

12.6. Other adverse effects

Other adverse effects: No data available.

Section 13: Disposal considerations

13.1. Waste treatment methods

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

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

UN number: UN1247

14.2. UN proper shipping name

Shipping name: METHYL METHACRYLATE MONOMER, STABILIZED

14.3. Transport hazard class(es)

Transport class: 3

14.4. Packing group

Packing group: II

14.5. Environmental hazards

Environmentally hazardous: No **Marine pollutant:** No

14.6. Special precautions for user

Tunnel code: D/E

Transport category: 2

Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.2. Chemical Safety Assessment

Section 16: Other information

[cont...]

Other information

Phrases used in s.2 and 3: H225: Highly flammable liquid and vapour.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H335: May cause respiratory irritation.
R11: Highly flammable.
R37/38: Irritating to respiratory system and skin.
R43: May cause sensitisation by skin contact.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.