

MATERIAL SAFETY DATA SHEETprepared in accordance with Commission Regulation (EU) No. 453/2010 amending
Regulation (EC) No 1907/2006 (REACH)Edition
01Date of issue
14.07.2014Update
-**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1. Product identifier:**Trade name: **PMMA Adhesive****1.2. Relevant identified uses of the substance or mixture and uses advised against:****1.2.1. Relevant identified uses**

...

1.2.2. Uses advised against

No data

1.3. Details of the supplier of the safety data sheet:**HEKO**

Address: ul. Chemików 1, 32-600 Oświęcim, Poland

Tel./fax: +48 33 847 38 70

Person responsible for MSDS: Dr Piotr Mikołajewicz

1.4. Emergency telephone number:

112 (EU) 911(US)

SECTION 2: HAZARDS IDENTIFICATION**2.1. Classification of the substance or mixture:****Under the Regulation (WE) no 1272/2008**Flammable liquids, Hazard Category 2; with assigned phrase stating the type of hazard
H225 Highly flammable liquid and vapourSkin irritation, Hazard Category 2; with assigned phrase stating the type of hazard
H315 Causes skin irritationSensitisation – Skin, Hazard Category 1; with assigned phrase stating the type of hazard
H317 May cause an allergic skin reactionSpecific target organ toxicity – Single exposure, Hazard Category 3, Respiratory tract irritation; with assigned
phrase stating the type of hazard
H335 May cause respiratory irritation**According to the Directive 67/548/EEC (as amended)**

F – Highly flammable with assigned phrase R:

R 11 – Highly flammable

Xi – Irritating with assigned phrases R:

R 37/38 – Irritating to respiratory system and skin

Xi – Sensitizing with assigned phrase R:

R 43 – may cause sensitisation by skin contact

Health: irritating to skin and respiratory system, prolonged or repeated contact with product may cause
allergic skin reaction

Environment hazards: potentially hazardous for environment

Physical/Chemical hazards: can polymerize with large exothermic effect

Fire hazards: highly flammable liquid. Product vapours form flammable/explosive mixtures with air

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-**2.2. Label elements**

Under the Regulation (WE) no 1272/2008

Pictograms:



Signal Word

Danger**Hazard statements:**

H225 Highly flammable liquid and vapour

H315 Causes skin irritation.

H317 May cause an allergic skin reaction

H335 May cause respiratory irritation

Precautionary Statement:**Prevention:**

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking

P233 Keep container tightly closed

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting equipment

P242 Use only non-sparking tools

P243 Take precautionary measures against static discharge

P261 Avoid breathing dust/fume/gas/mist/vapours/spray

P264 Wash hand and face thoroughly after handling.

P270 Do not eat, drink or smoke when using this product

P271 Use only outdoors or in a well-ventilated area

P272 Contaminated work clothing should not be allowed out of the workplace

P280 Wear protective gloves/protective clothing/eye protection/face protection

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

P370 + P378 In case of fire: Light, middle-weight and heavy fire-fighting foam, dry chemicals, carbon dioxide to extinguish

P304 + P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

P312 Call a POISON CENTER/doctor/physician if you feel unwell

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention

P362 + P364 Take off contaminated clothing and wash it before reuse

Storage:

P403 + P235 + P233 Store in a well-ventilated, cool place. Keep container tightly closed.

P405 Store locked up.

Disposal:

P501 Dispose of contents/container in accordance with local/regional/national/international regulation

Hazardous Ingredient:

Methyl methacrylate

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According to the Directive 67/548/EEC (as amended)

Pictograms:



F – Highly flammable



Xi – Irritant

Hazard statements R:

R 11 – Highly flammable

R 37/38 – Irritating to respiratory system and skin

R 43 – may cause sensitisation by skin contact

Safety phrases S:

S 1/2 – Keep locked up and out of the reach of children

S 16 – Keep away from sources of ignition - No smoking

S 23 – Do not breathe gas/vapour/spray

S 24 – Avoid contact with skin

S 36/37 – Wear suitable protective clothing and suitable gloves

S 45 – In case of accident or if you feel unwell seek medical advice immediately (show the label where possible)

Hazardous Ingredient:

Methyl methacrylate

2.3. Other hazards:

The product doesn't meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

The product is a mixture – solution of poly(methyl metacrylate) in stabilized methyl methacrylate

The classification of hazardous substance contained in the product are given in Table 3.1 and 3.2 of Annex VI to the Regulation of the European Parliament and Council Regulation (EC) No 1272/2008 (Regulation GHS), including Commission Regulation (EC) 790/2009 (1 ATP).

No CAS	No WE	Index number	REACH registration number	Chemical name	Quantity	Hazard category	H, R phrases
80-62-2	201-297-1	607-035-00-6	no data	methyl methacrylate*	approx. 90 % w/w	Flam. Liq. 2, Skin Irrit. 2, Skin Sens. 1, STOT SE 3**	H225, 315, 317, 335
						F, Xi***	R11-37/38-43

* Substance for which there are Community workplace exposure limits

** Classification according to Regulation (WE) 1272/2008

*** Classification according to the Directive 67/548/EEC (as amended)

For the wording of the listed risk phrases and hazard category refer to section 16.

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-**SECTION 4: FIRST AID MEASURES****4.1. Description of first aid measures****General recommendations**

In the event of health problems, immediately contact doctor. Show MSDS of product.

In case of indisposition or labour injury immediately call a professional health service. Show the risk symbols and R and S sentences from the safety data sheet to a doctor. Inform the doctor on provided first aid. Do not evoke vomiting in any case. If the affected person vomits, turn him/her on side (position of the head on its side) in order to prevent suffocating with vomits. Never give anything by mouth to an unconscious person. Take off contaminated clothing.

Contamination of the skin: Contaminated areas of the skin wash thoroughly water with soap. In case of irritation or rash consult a doctor.

Contamination of the eye: Flush contaminated eyes with wide-open eyelids a continuous stream of water for about 15 minutes. In the case of persistent irritation consult an ophthalmologist.

Inhalation: If exposure, move victim to fresh air. Keep warm and quiet. Consult with doctor. Conscious person placed in a rest half seated, ensure calm and warm, unconscious person lay in the recovery position.

Ingestion: Immediately seek and provide medical advice.

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

Acute symptoms – irritation of the skin, respiratory tract

Delayed symptoms – prolonged or repeated contact with product may cause allergic skin reaction

Effects of exposure – vapours of product can cause central nervous system depression

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

Note to Physician: No specific antidote, treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES**5.1. Extinguishing media**

Suitable extinguishing agents: Light, middle-weight and heavy fire-fighting foam, carbon dioxide, dry chemicals, water spray

Extinguishing media which must not be used for safety reasons: a strong jet of water – the risk of fire spreading

5.2. Special hazards arising from the substance or mixture

The combustion of the product may produce carbon oxides other harmful gases. Avoid inhalation of combustion products, may pose a threat to health.

5.3. Advice for fire-fighters: strictly apply the breathing apparatus and protective clothing for fire fighting or during clean-up work immediately after a fire in an enclosed or poorly ventilated areas.

General: inform about the fire, call the appropriate emergency services. Remove from the endangered area unauthorized persons, not involved in extinguishing the fire, order evacuation if necessary.

Additional notes: vapours of product form explosive mixtures with air. Vapours are heavier than air, accumulate at the surface of the earth and lower parts of the rooms. Tanks and packaging which are not covered by the fire, exposed to fire or high temperature should be cooled by water from a safe distance (risk of explosion), and if possible removed from the hazardous area.

Fire residues and contaminated waters dispose in according to applicable regulations.

Do not introduce contaminated waters into drains.

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-**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1. Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment, especially respiratory protection in case of vapour/fumes/aerosols of product. Avoid direct contact with releasing product. Avoid breathing vapours.

Inform about the accident, call the appropriate emergency services (e.g. Fire Brigade, Police). Remove from the hazardous area all persons not taking part in the emergency, order evacuation if necessary. Remove sources of ignition, announce prohibition of smoking and using sparking tools. Provide adequate ventilation.

6.2. Environmental precautions

Do not allow to enter drains, groundwater, soil and open water courses.
In case of water contamination inform local authorities.

6.3. Methods and material for containment and cleaning up

In case of container leakage, spillage of the product, protect the source of leak, pour the product into an empty container or place damaged container in an emergency one. Limit the spread of spill by the embankment of land, large quantities of liquid pump out. Small amounts of spilled liquid soak up with non-flammable, absorbent material (sand, diatomite, universal binders, etc.) gather in closed container for disposal and utilized. Perform clean-up work with adequate ventilation. Contaminated surface rinse with water with detergent.

6.4. Reference to other sections

Personal protective equipment – section 8
Waste disposal – section 13

SECTION 7: HANDLING AND STORAGE**7.1. Precautions for safe handling**

Avoid contact with liquid, avoid vapour inhalation. Ensure adequate ventilation /exhaust in the workplace, prevent the formation of harmful concentrations of vapour in the air, work in well ventilated areas. Observe good personal hygiene and wear protective clothing in accordance with information set out in section 8. Equipment used for handling with product shall be watertight, fitted with fire-fighting agents for immediate intervention.

Special measures for protection against fire and explosion:

Prevent formation of flammable /explosive concentrations of vapour in the air, eliminate sources of ignition - don't use open flames, don't smoke, don't use sparking tools and fabrics susceptible to electrification; protect tanks from heat, install explosion-proof electrical equipment.

7.2. Conditions for safe storage, including any incompatibilities

Store only in certified, properly labelled, sealed containers in warehouse of flammable liquids, equipped with ventilation and explosion-proof electrical installation. Protect packaging from heat. At the warehouse observe prohibition of smoking, using open flames and sparking tools.

Recommended storage temperature: 15 – 25°C.

Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Empty containers may contain flammable vapours, pose an explosion hazard.

Product can polymerize with large exothermic effect.

7.3. Specific end use(s)

See section 1.2

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational Exposure Limit Value:

Hazardous Ingredients	No CAS	LTET, ppm	STEL, ppm
methyl methacrylate	80-62-6	50	100

Commission Directive 2009/161/UE

DNELs for workers:

Exposure pattern	Route	DNEL
Long-term	Dermal	74,3 mg/kg bw/day
Long-term	Inhalation	210 mg/m ³

8.2. Exposure controls

Prevent inhalation, contact with eyes or skin. Prevent inhalation of vapours or fog. Assure sufficient cleaning of contaminated clothes after finishing or interruption of works, or replace them with the clean one.

a) Respiratory protection – is not necessary under normal conditions with sufficient ventilation, required during exposure to high concentrations of vapours. Wear mask or respirator completed with the filter type A

b) Hand protection – required protective gloves in case of prolonged or frequently repeated exposure to the product. Material of gloves must be impervious to hydrocarbons and resistant to the product. Recommended material: nitril, butyl rubber, minimum layer thickness: 0,3 mm, for short-term contact break through time 60 min (protective class 3 acc. to EN 374), for long-term contact break through time 480 min (protective class 6 acc. to EN 374). Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

c) Eye protection – recommended close-fitting protective goggles with a side shield.

d) Skin protection – wear protective clothing with coated fabric (e.g. Viton), antistatic, protective footwear (e.g. neoprene).

When the concentration of hazardous substances is fixed and known, the selection of personal protective equipment should be made taking into account the concentration of the substance present in a given workplace, exposure time, the activities performed by the employee and the recommendations given by the manufacturer of personal protective equipment. In an emergency situation or where the concentration in the workplace is not known, use personal protection isolating body (tight suit completed with isolating respiratory protective equipment). Applied personal protective equipment must meet the requirements contained in the Directive 89/686/WE (with later changes).

Procedures monitoring concentrations of hazardous compounds in the air and air quality in the workplace - if they are available and appropriate for given workplace - in accordance with the relevant local or European Standards, taking into account the conditions prevailing in the place of exposure and appropriate measurement methodology adapted to the conditions of work.

Industrial hygiene

- ensure good ventilation (overall and local exhausted ventilation),
- ensure place for eyes and skin rinsing,
- wash hands with soap and water before eating, smoking and after work,
- use general caution while working with chemical substances.

Environmental exposure controls:

Do not allow to enter large amounts of product into ground water, sewage, waste water or soil.

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-**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties**

Form:	viscous liquid
Colour:	colourless or pale yellow
Odour:	characteristic
Odour threshold:	no data
pH (20°C):	doesn't concern
Melting temperature:	-48,6°C regarding to methyl methacrylate
Boiling temperature:	approx. 100°C regarding to methyl methacrylate
Ignition temperature	approx. 10°C regarding to methyl methacrylate
Self-ignition temperature:	430°C regarding to methyl methacrylate
Flammability:	highly flammable
Explosive properties:	vapours form explosive mixtures with air
Explosive limits in air:	LEL – 2,1 % vol. ; UEL – 12,5 % vol. regarding to methyl methacrylate
Oxidising properties:	no data
Vapour pressure (20°C):	approx. 40 hPa regarding to methyl methacrylate
Density (20°C):	no data
Solubility in water:	approx. 15 g/dm ³ regarding to methyl methacrylate
Partition coefficient n-octanol/water:	1,38 regarding to methyl methacrylate
Viscosity (20°C):	no data
Vapour density:	3,46 regarding to methyl methacrylate
Evaporation rate:	no data

9.2. Other information no data**SECTION 10: STABILITY AND REACTIVITY****10.1. Reactivity**

Polymerize

10.2. Chemical stability

Stable under normal conditions (see Section 7 - storage conditions)

Unless inhibited, product can polymerize, raising temperature and pressure, possibly rupturing container. Do not blanket or mix with oxygen-free gas as it renders inhibitor ineffective.

10.3. Possibility of hazardous reactions

Product can polymerize with large exothermic effect.

10.4 Conditions to avoid

Heat, flames and sparks. Extremes of temperature and direct sunlight.

Too long storage time (inhibitor deactivation)

10.5. Incompatible materials

Oxidizing agents, Peroxides, Amines, Bases, acids, Reducing agents, Halogens

10.6 Hazardous decomposition products

Under normal conditions of use are not known.

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-**SECTION 11: TOXICOLOGICAL INFORMATION**

No toxicological data for product

11.1. Information on toxicological effects (regarding hazardous ingredient methyl methacrylate):**Acute toxicity:**

Acute Oral Toxicity LD50 (rat): > 5000 mg/kg

Acute Dermal Toxicity LD50 (rabbit): > 5000 mg/kg

Acute Inhalation Toxicity LC50 (rat): approx. 30 mg/dm³/4h**Corrosion / Irritation:**

Skin: irritating

Eye: not irritating

Respiratory irritation: irritating

Sensitization: sensitising in skin contact**Germ cell mutagenicity:** No data available.**Carcinogenicity:** No data available.**Reproductive toxicity:** No data available.**STOT-single exposure:** No data available**STOT-repeated exposure:** No data available**Aspiration hazard:** No data available**SECTION 12: ECOLOGICAL INFORMATION**

No ecotoxicological data for product

12.1. Toxicity (regarding hazardous ingredient methyl methacrylate):Acute Toxicity to fish: (*Oncorhynchus mykiss*) LC50: > 79 mg/dm³/96hAcute Toxicity to aquatic invertebrates: (*Daphnia magna*) EC50: 69 mg/dm³/48hAcute Toxicity to algae (*Selenastrum capricornutum*) EC50: >110 mg/dm³/72h**12.2. Persistence and degradability**

Methyl methacrylate is readily biodegradable (>95% in 28 days)

12.3. Bioaccumulative potential

Bioaccumulation is not expected

12.4. Mobility in soil

No data

12.5. Results of PBT and vPvB assessment:

No data

12.6. Other adverse effects

Product is potentially harmful to the aquatic environment. Take care that the product has not penetrated into the soil, drinking water sources, water tanks etc.

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-**SECTION 13: DISPOSAL CONSIDERATIONS****13.1. Waste treatment methods:**

Dispose of waste in accordance with all Federal, State and Local regulations.

Waste of product: communicate with the manufacturer of the product on the possibility of processing waste. If it's not possible, deliver it to utilization in plants permitted to waste collection, transport, waste recovery and disposal. Do not empty into drains. Do not waste landfilled. Recovery or disposal of waste product should be made in accordance with applicable regulations. The recommended way of disposing of waste: thermal decomposition.

Waste code must be given individually at the site of waste manufacture, depending on the industry and place of use.

Disposing of the packaging: it is prohibited to burn them on the ground. Empty containers may contain flammable vapours pose an explosion hazard. Reusable packaging after cleaning can be further used if necessary.

Waste code: 15 01 10 – packages containing waste of hazardous materials or contaminated with hazardous materials.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number:	1133
14.2. UN proper shipping name:	ADHESIVES containing flammable liquid
14.3. Transport hazard class:	3
14.4. Packing group:	II
14.5. Environmental hazards:	no
14.6. Special precautions for user:	see section
Overland transport ADR	
Classification code:	F1
Warning label:	3
Packing instruction:	P001
Code of movement restriction through underpass:	D/E
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:	no data

**SECTION 15: REGULATORY INFORMATION****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

- Regulation (EC) No 1907/2006 of the European Parliament and of the Council from 18.12.2006 concerning the Registration, Evaluation, Authorization and Restriction from Chemicals (REACH)
- Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
- Commission Regulation (EU) No. 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
- Commission Regulation (EU) No 286/2011 of 10 March 2011 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 487/2013 of 8 May 2013 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 944/2013 of 2 October 2013 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Dangerous Substance Directive 67/548/EEC, Dangerous Preparations Directive 1999/45/EC
- European agreement concerning international road transport of dangerous products (ADR)
- *Federal, State and Local regulations.*

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15.2. Chemical safety assessment

Chemical safety assessment was not made for the product

SECTION 16. OTHER INFORMATION

Explanation of symbols and phrases referring dangerous substances contained in product:

Flam. Liq. 2 Flammable liquids, Hazard Category 2
 Skin Irrit. 2 Skin corrosion/irritation, Hazard Category 2
 Eye Irrit. 2 Serious eye damage/eye irritation, Hazard Category 1
 Skin Sens. 1 Skin Sensitizing, Hazard Category 1
 STOT SE 3 Specific target organ toxicity – Single exposure, Hazard Category 3, Respiratory tract irritation

F – Highly flammable

Xi – Irritating

H225 Highly flammable liquid and vapour

H315 Causes skin irritation

H317 May cause an allergic skin reaction

H319 Causes serious eye irritation

H335 May cause respiratory irritation

R 11 Highly flammable

R 37/38 Irritating to respiratory tract and skin

R 38 Irritating to skin

R 43 May cause sensitization by skin contact

Explanation of abbreviations and acronyms used in the MSDS:

CAS – Chemical Abstracts Service

WE – the number assigned to chemicals in the European Inventory of Existing Commercial Chemical Substances or European List of Notified Chemical Substances, or in the list of chemicals listed in the publication of "No-longer polymers".

STEL – short term exposure limits maximum of a substance harmful to health in the workplace

LTEL – long term exposure limits maximum of a substance harmful to health in the workplace

DNEL – derived no effect level

LEL – lower explosive limit

UEL – upper explosive limit

LD50 – Lethal Dose, 50%

LC50 – Lethal Concentration, 50%

PBT – persistence, bioaccumulation potential and toxicity

vPvB – very high durability and very bioaccumulative

UN number – identification number of the material (the number of UN, UN number)

ADR – European Agreement concerning the international carriage of dangerous goods by road

MSDS was prepared in accordance with Commission Regulation (EU) No. 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Classification of product was made based on physical-chemical properties and content of hazardous components, according to the Directive 1999/45/EC (as amended) and Regulation (EC) No 1272/2008.

Training: persons, who work with product should be trained respecting to properties and way of use this product. Use appropriately according to producer data.

Source of data: this MSDS was prepared based on MSDS of ingredients, data of product, our knowledge and experience according to actual legislation.

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Recommendation and restriction of use: Use according to label. Additional safety information available at producer.

Disclaimer: information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. End user is responsible for inappropriate use of information enclosed in MSDS or inappropriate use of product.

Distribution of MSDS: MSDS is delivered for demand of purchasing, who use product in professional services.