

SAFETY DATA SHEET

[in accordance with the regulation no. 1907/2006/EG (REACH)]

Revision:24.02.2018

Version:3/ENG

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

1.1 Product identifier

Trade name: **PLASTIFLOOR® Adhesive Agent HP**

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

Relevant identified uses: Coating.

Uses advised against: not determined.

1.3 Details of the supplier of the safety data sheet

Supplier: **Plasti-Chemie Produktionsgesellschaft mbH**

Address: Falgarding 1
D-08223 Falkenstein
Germany

Telephone/Fax number: +49 3745/74432-0 / +49 3745/74432-27

E-mail address for a competent person responsible of sds: volkmar.lull@plasti-chemie.de

Further information provided by: Mr. Volkmar Lull, +49 3745/74432-0

1.4 Emergency telephone number

Chemtrec: 1-800-424-9300 for US

+1 703-527-3887 outside US

Europa 112

Österreich +43 1 406 43 43

Belgien Poison center (BE): +32 70 245 245

Dänemark Poison Control Hotline (DK): +45 82 12 12 12

Finnland Poison Information Centre (FI):+358 9 471 977

Frankreich ORFILA (FR): + 01 45 42 59 59

Deutschland Giftnotruf Berlin, Tel. 030 30686 790

Poison Center Nord: +49 551 19240 (24h erreichbar, Deutsch und Englisch)

Poison Information Centre Erfurt: +49 361 730730 (Gemeinsames Giftinformationszentrum der Länder Mecklenburg-Vorpommern, Sachsen, Sachsen-Anhalt und Thüringen c/o HELIOS Klinikum Erfurt Nordhäuser Straße 74, 99089 Erfurt)

Irland National Poisons Information Centre (IE): +353 1 8379964

Island +354 543 2222

Italien Poison Center, Milan (IT): +39 02 6610 1029

Luxemburg 112

Niederlande National Poisons Information Center (NL): +31 30 274 88 88 (NB: this service is only available to health professionals)

Norwegen Poisons Information (NO):+ 47 22 591300

Portugal Poison Information Center (PT): +351 21 330 3284

Spanien Poison Information Service (ES): +34 91 562 04 20

Schweden Poisons Information Center (SV):+46 8 33 12 31

Schweiz Poison Center: Tel 145; +41 44 251 51 51

Großbritannien NHS Direct (UK): +44 (0) 845 46 47; 111

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to regulation (EG) 1272/2008/WE

Flam. Liq. 2 H225, Skin Corr. 1 H314, Skin Sens. 1 H317, STOT SE 3 H335

Highly flammable liquid and vapour. Causes severe skin burns and eye damage. May cause allergic skin irritation. May cause respiratory irritation.

2.2 Label elements

This substance is graded and classified according to (EG) No. 1272/2008 [CLP].

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Hazard symbols and signal words



DANGER

Product identifier

Contains: Methyl methacrylate, Methacryloyloxyethyl phosphate

Hazard statements

H225 Heating may cause fire.
H314 Causes severe skin burns and eye damage.
H317 May cause allergic skin reaction.
H335 May cause respiratory irritation.

Precaution statements

P210 Keep away from heat/sparks/open fire/hot surfaces and other ignition source. No smoking.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302 + P352 IN CONTACT WITH THE SKIN: Wash with plenty of soap and water.

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

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lens, if present and easy to do. Continue rinsing.

2.3 Other hazards

In the presence of radical formers (e.g. peroxides), reducing substances and / or heavy metal ions exothermic polymerization is possible.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substance

Not applicable.

3.2 Mixture

CAS: 80-62-6 EINECS: 201-297-1 Index number: 607-035-00-6 REACH-number.: 01-2119452498-28	<u>Methyl methacrylate</u> Classification acc. to 1272/2008/WE: Flam. Liq. 2 H225, Skin Irrit. 2 H315, Skin Sens. 1 H317, STOT SE 3 H335	10 - 50 %
CAS: 52628-03-2 EINECS: 258-053-2 Index number: -	<u>Methacryloyloxyethyl phosphate</u> Classification acc. to 1272/2008/WE: Skin Corr. 1 H314	50 - 100 %

Additional information: For the wording of the hazard statements refer to section 16.

ABSCHNITT 4: FIRST AID MEASUREMENTS

4.1 Description of first aid measurements

General information: Care of personal protection of the first aider.
Directly remove contaminated clothing.

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Inhalation:	Medical treatment is necessary if symptoms occur which are obviously an effect of skin or eye contact with the product or inhalation of its vapours. Move victim to fresh air and keep calm. Seek immediate medical attention.
Skin contact:	Wash immediately with soap and water and rinse thoroughly. Seek medical attention.
Eye contact:	Immediately wash the eye with the eyelid open under running water. Protect unharmed eye. Seek immediate medical attention. Alert Ambulance (keyword: eye burns) Rinse until the arrival in Ophthalmology
Ingestion:	Do not induce vomiting. Seek immediate medical attention. Rinse mouth with water and drink plenty of water.

4.2 Most important symptoms and effects, both acute and delayed

Skin sensitization, corrosive effects, excessive or prolonged exposure may cause headaches or dizziness.

4.3 Indication of any immediate medical attention and special treatment

No further information relevant.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguish media

Suitable extinguish media: CO₂; extinguishing powder, sand. Do not use water.

Unsuitable extinguish media: Water jet – risk of propagation of the flame.

5.2 Special hazards arising from the substance or mixture

The following can be released in case of fire: carbon monoxide, carbon dioxide, organic decomposition products.

5.3 Advise for firefighters

Special protective equipment: Self-contained breathing apparatus, chemical-resistant protective clothing.

Additional information: Brand residues and contaminated firefighting water must be disposed according to the official regulations.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Exclude sources of ignition.

Do not breathe vapours. Ensure adequate ventilation.

Use personal protective measures. Keep unprotected persons away.

Use breathing apparatus if exposed to vapours / dust / aerosol.

6.2 Environmental precautions

Do not allow product to reach sewage system, water bodies or ground/soil.

6.3 Methods and material for containment and cleaning up

Larger quantities: Collect mechanically (by pumping). Note explosion protection!

Smaller quantities / residues: Collect with non-flammable liquid absorbing material (e.g. sand, silica). Dispose in accordance with government regulations.

6.4 Reference to other sections

Disposal: Section 13. Personal protective equipment: Section 8

SECTION 7: HANDLING AND STORAGE

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7.1 Precautions for safe handling

Follow general OSH regulations for dangerous chemical substances. Avoid contact with skin and eyes. Do not breathe vapours. Wash hands thoroughly before breaks and at the end of work. Use as intended. Keep container tightly closed. While handling the product do not eat, drink or smoke. No open flame or sparks. Keep the product away from heat and sources of ignition. Take measures to prevent electrostatic charging. Use non-sparking tools. Vapour can combine with air to form an explosive mixture. Avoid open flame, sparks, direct sunlight and other sources of ignition. Ensure good interior ventilation, especially at floor level (vapours are heavier than air and may pose a risk of explosion)

7.2 Conditions for safe storage, including any incompatibilities

General information: Observe country-specific requirements for the storage of hazardous substances.

Requirements for storage rooms and containers:

Store only in labelled and closed original container.

Only fill the container by approximately 80%, as oxygen (air) is required for stabilization.

Store in well ventilated rooms.

Storage compatibility:

Store away from oxidizing agents (organic peroxides).

Keep away from foodstuffs, beverages and food.

Additional information:

Keep container tightly closed.

Protect from heat and direct sunlight.

Exclude sources of ignition - no smoking.

Use only explosion proof equipment.

In case of fire cool endangered containers with water.

The formation of explosive mixtures in air is possible if heated above flash point and / or during spraying (atomizing)

Recommended Storage

temperature:

max. + 30°C

Storage class:

3

7.3 Specific end use(s)

No information about other uses than those mentioned in subsection 1.2.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Components with community workplace exposure limits:

Methyl methacrylate, CAS 80-62-06

Limit value - Eight hours 50 ppm

Limit value - Short term 100 ppm

DNEL

80-62-06 Methyl methacrylate:

DNEL	Oral	Inhalation	Dermal
Worker, long-term, local effects	1	210 mg/m ³	1,5 mg/cm ²
Worker, long-term, systemic effects	1	210 mg/m ³	13,67 mg/kg KG/day
Worker, short-term, local effects	1	2	1,5 mg/cm ²
Worker, short-term, systemic effects	1	2	-
Consumers, long-term, local effects	1	105 mg/m ³	1,5 mg/cm ²
Consumers, long-term, systemic effects	1	74,3 mg/m ³	8,2 mg/kg KG/day
Consumers, short-term, local effects	1	2	1,5 mg/cm ²
Consumers, short-term, systemic effects	1	2	-

1) low oral toxicity: DNEL not calculated.

2) Long-term DNEL .

PNEC

80-62-06 Methyl methacrylate:

PNEC freshwater 0,94 mg/L

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PNEC seawater	0,094 mg/L
PNEC sediment	5,74 mg/kg Dry weight
PNEC soil	1,47 mg/kg Dry weight

8.2 Exposure controls

General safety and hygiene measures:

Observe the usual precautions for handling chemicals.
Keep away from foodstuff, beverages and food.
Directly remove contaminated clothing.
Wash hand thoroughly before breaks and at the end of work.
Separate storage of protective clothing.
Avoid contact with skin and eyes.
Do not eat/drink/smoke/snuff during work.

Respiratory protection:

Not required with adequate ventilation.
At inadequate ventilation use respiratory protection.



Combination filter A-P2 (organic Vapours-Particles)

Hand protection:

Only use chemical protective gloves with CE labelling of Category III according to EN 374.



Selection of the glove material on consideration of the permeation times, rates of diffusion and the degradation.

Glove material:

The selection of an adequate glove not only depends on the material, but also from different other quality characteristics and varies from manufacturer to manufacturer.

Butyl rubber

Penetration time of glove material:

The exact break through time is to be learned from the manufacturer and must be maintained. The break through time is dependent of the activity and usage time

Eye protection:



Tightly sealed goggles

Body protection:

When handling larger quantities: face protection, chemical-resistant boots and apron.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:

Physical state: Liquid
Colour: Yellowish to brownish
Odour: Characteristic
Odour threshold: Not determined.

Safety relevant basic data:

Parameters

		Unit	Remark
<i>Density:</i>	1,21	g/cm ³	
<i>Bulk density:</i>			not determined

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<i>pH value:</i>			not determined
<i>Melting point/Melting range:</i>	< 0	°C	
<i>Boiling point/Boiling range:</i>	100	°C	
<i>Flash point:</i>	10	°C	MMA (DIN 51755)
<i>Inflammability (solid/gaseous)</i>			
<i>Explosion dangerousness:</i>			
<i>lower Explosion limit:</i>	2,1	Vol.-%	MMA
<i>upper Explosion limit:</i>	12,5	Vol.-%	MMA
<i>Ignition temperature:</i>	430	°C	MMA
<i>Decomposition temperature:</i>			not determined
<i>Oxidising potential:</i>			not determined
<i>Vapour pressure:</i>	app. 40	hPa	at 20 °C
<i>Rate of vaporization:</i>			not determined
<i>Water solubility:</i>	app. 40	g/L	
<i>Liposolubilty:</i>			not determined
<i>Soluble in:</i>			not determined
<i>Distribution coefficient:</i>			not determined
<i>n-Octanol/Water:</i>			not determined
<i>Viscosity:</i>	40 - 55	mPa.s	23 °C (Brookfield)
<i>Solvent separation test:</i>			not determined
<i>Solvent content:</i>			

9.2 Other information

None.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

See 10.2

10.2 Chemical stability

The product is stable at intended storage and handling conditions.

10.3 Possible hazardous reactions

In the presence of radical formers (e.g. peroxides), reducing substances and / or heavy metal ions exothermic polymerization is possible.

10.4 Conditions to avoid

Heat - , ignition sources, aging, contamination, oxygen-free atmosphere.

10.5 Incompatible materials

Strong oxidising agents. Peroxides, amines, sulphur compounds, heavy metal ions, alkaline compounds, reducing and oxidizing agents.

10.6 Hazardous decomposition products

None at intended storage and handling conditions.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

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<u>Acute Toxicity:</u>	
<u>Relevant LD/LC50 Values:</u>	
Oral	80-62-6 Methyl methacrylate: LD50 (Rat) > 5000 mg/kg 52628-03-2 Methacryloyloxyethyl phosphate: LD50 (Rat) > 2000 mg/kg
Dermal	80-62-6 Methyl methacrylate: LD50 (Rabbit) > 5000 mg/kg
Inhalation	80-62-6 Methyl methacrylate: LC50 (Rat) > 29,8 mg/L / 4 h
<u>Irritation to the skin:</u>	Corrosive.
<u>Serious eye damage/irritation:</u>	Highly irritating and corrosive.
<u>Sensitization:</u>	May cause allergic reactions.
<u>Risk of aspiration toxicity:</u>	Based on available data the classification criteria are not met.
<u>CMR effects:</u>	
Carcinogenicity	Based on available data the classification criteria are not met.
Germ cell mutagenicity	Based on available data the classification criteria are not met.
Reproductive toxicity	Based on available data the classification criteria are not met.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic Toxicity:

Product	LC 50 (Poecilia reticulata): >100 mg/L / 96 h (OECD 203) EC 50 (daphnia magna): >100 mg/L / 48 h (OECD 202)
80-62-06 Methyl methacrylate	EC 3 (salinastrum capricornutum): > 110 mg/L / 72 h (OECD 201) EC 0 (pseudomonas putida): 100mg/L / 16 h

12.2 Persistence and degradability

Product is easily biodegradable according to OECD criteria. In the air the substance is rapidly degraded photo chemically.
Main component of the mixture: Methyl methacrylate is easily biodegradable.

12.3 Bioaccumulative potential

Due to the distribution coefficient n-octanol-water (log Pow) accumulation in organisms is not expected.

12.4 Mobility in Soil

A binding to the solid phase soil, sediment or sludge is not expected. The substance slowly evaporates from the water surface into the atmosphere. If the substance gets into the environment it remains preferably in the compartment to which it has emerged.

12.5 Results of PBT and vPvB assessment

PBT: no.

vPvB: no.

12.6 Other adverse effects

Prevent substance from entering soil, water or sewage system.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal methods for the product:

When disposing observe the current regulatory provisions for disposing chemical waste. Store remainder in original container.

European waste catalogue

07 02 08 Waste from the manufacture, formulation, supply and use (MFSU) of plastics, synthetic rubber and synthetic fibers – other reaction and distillation residues.

Disposal methods for use packing:

Reuse/recycle/liquidate empty containers in accordance with the legislation in force.

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Only containers completely empty can be recycled.

SECTION 14: TRANSPORT INFORMATION

14.1 UN-Number

UN 2924

14.2 UN proper shipping name

ADR 2924 Flammable Liquid, Corrosive, N.O.S. (contains methyl methacrylate, phosphoric acid esters)

IMDG, IATA Flammable Liquid, Corrosive, N.O.S. (contains methyl methacrylate, phosphoric acid esters)

14.3 Transport hazard class(es)

ADR



Class: 3 (F1) flammable liquids, 8 Corrosive

IMDG, IATA



Class: 3 (F1) flammable liquids, 8 Corrosive

14.4 Packing group

II

14.5 Environmental hazards

Marine pollutant: No

14.6 Special precautions for user

None.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

Transport/Additional information:

ADR:

Limited quantities (LQ): 5 L

Transport category: 3

Tunnel restriction code: D/E

RID/GGVCEB see ADR

SECTION 15: REGULATORY INFORMATION

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

National regulations

This product has to be labelled in accordance with the Ordinance on Hazardous Substances in the latest version.

Employment restrictions

Observe employment restrictions for young people.

Observe employment restrictions for expectant and nursing mothers.

Water hazard class:

WGK 1 (self-classification): slightly hazardous for water.

Other regulations, limitations and prohibitive regulations

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Note:

Apply the appropriate local regulations.

15.2 Chemical safety assessment

A chemical safety assessment has not been done for this product.

SECTION 16: OTHER INFORMATION

Additional details:

Classification was made based on the data on the content of hazardous substances using the calculation method based on the guidelines of regulation 1272/2008/EC (CLP).

Relevant Phrases:

- H225 Highly flammable liquid and vapour.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause allergic skin reaction.
- H335 May cause respiratory irritation.