

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

Revision: 12.11.2019 Version: 3/ENG

### SECTION 1: INDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

1.1 Product identifier

Trade name: PLASTIFLOOR® 418

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: Falgardring 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 Irrit. 2 H315, Skin Sens. 1 H317, Eye Irrit. 2 H319, STOT SE 3 H335

Highly flammable liquid and vapour. Causes skin irritation. May cause allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation.

### 2.2 Label elements

This substance is graded and classified according to (EG) Nr. 1272/2008 [CLP].

Hazard symbols and signal words

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Product identifier

Contains: methyl methacrylate, 2-ethylhexyl acrylate

Hazard statements

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause allergic skin reaction.
 H319 Causes serious eye irritation.
 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

The components of this mixture do not meet the criteria for PBT or vPvB in accordance of Annex XIII of REACH.

### **SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS**

### 3.1 Substance

Not applicable.

### 3.2 Mixture

Chemical characterization: Mixtures, methyl methacrylate resin.

CAS: 80-62-6 EINECS: 201-297-1	Methyl methacrylate Classification acc. to 1272/2008/WE: Flam. Liq. 2 H225, Skin Irrit. 2 H315,	
Index number: 607-035-00-6 REACH-number.: 01-2119452498- 28	Skin Sens. 1 H317, STOT SE 3 H335	25 - 50 %
CAS: 103-11-7 EINECS: 203-080-7 Index number: 607-107-00-7 REACH-number.: 01-2119453158- 37	2-Ethylhexyl acrylate Classification acc. to 1272/2008/WE: Skin Irrit. 2 H315, Skin Sens. 1 H317, STOT SE 3 H335	10 - 25 %
CAS: 105-76-0 EINECS: 203-328-4 Index number: - REACH-number.: 01-2119523581- 45	<u>Dibutyl Maleate</u> Classification acc. to 1272/2008/WE: Skin Sens. 1 H317, STOT RE 2 H373	0 - 5 %
CAS: 3077-12-1 EINECS: 221-359-1 Index number: -	N,N-Di-(2-hydroxyethyl)-p-toluidine Classification acc. to 1272/2008/WE: Acute Tox. 4 H302, Eye Dam 1 H318	< 1,5 %

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REACH-number.: -				
CAS: 64742-82-1	Naphtha (petroleum), hydrodesulfurized heavy			
EINECS: 265-185-4	Classification acc. to 1272/2008/WE: Flam. Liq. 3 H226, Asp. Tox. 1 H304,	- 1.0/		
Index number: 649-330-00-2	STOT SE 3 H336, Aquatic Chronic 2 H411	< 1 %		
REACH-number: -				
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.

Inhalation: Move victim to fresh air and keep calm.

Consult doctor if symptoms persist.

Skin contact: Wash immediately with soap and water and rinse thoroughly.

Directly remove contaminated clothing. Consult doctor if symptoms persist.

Eye contact: Wash the eye with the eyelid open for several minutes under running water.

Consult doctor if symptoms persist.

Ingestion: Do not induce vomiting.

Rinse mouth with water.

Consult doctor if symptoms persist. Show the container or label.

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

Prolonged or repeated skin contact may cause irritation, reddening, dry skin, allergic skin irritation, itching, rash. After eye contact reddening, watery eyes, burning eyes, irritation may occur. Swallowing may cause stomach pain, nausea, vomiting. High vapour concentration may cause headache, dizziness and respiratory irritation.

### 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: CO<sub>2</sub>; extinguishing powder, sand. Do not use water.

<u>Unsuitable extinguish media:</u> Water jet – risk of propagation of the flame.

### 5.2 Special hazards arising from the substance or mixture

Under certain fire conditions traces of other toxic substances are possible. Cracked Hydrocarbons, carbon monoxide and carbon dioxide.

### 5.3 Advise for firefighters

Highly flammable liquid and vapour. Heat can cause polymerization. Airtight sealed containers may rupture explosively if heated.

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

<u>Additional information:</u> 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.

Avoid skin and eye contamination.



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# **6.2** Environmental precautions

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

In case of release of large amounts of product, it is necessary to take appropriate step to prevent it from spreading into the environment. Notify relevant emergency services.

### 6.3 Methods and material for containment and cleaning up

Collect with non-flammable liquid absorbing material (e.g. sand, silica). Do not flush with water or aqueous cleaning agents. Collect in lockable and labelled containers. Treat the collected material as waste. Clean the contaminated place and ventilate it.

### 6.4 Reference to other sections

Disposal: Section 13. Personal protective equipment: Section 8.

### **SECTION 7: HANDLING AND STORAGE**

### 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 an 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 then 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

<u>and containers:</u> Store in labelled and closed original container.

Safely prevent any seepage into the ground.

Store in well ventilated rooms.

Store only outside or in explosion-proof rooms.

<u>Storage compatibility:</u> 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. Storage in a collecting chamber.

Recommended Storage

<u>temperature:</u>  $+5^{\circ}\text{C up to} + 25^{\circ}\text{C}$ 

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/m³	1,5 mg/cm <sup>2</sup>
Worker, long-term, systemic effects	1	210 mg/m³	13,67 mg/kg KG/day
Worker, short-term, local effects	1	2	1,5 mg/cm <sup>2</sup>

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Worker, short-term, systemic effects	1	2	-
Consumers, long-term, local effects	1	105 mg/m <sup>3</sup>	1,5 mg/cm <sup>2</sup>
Consumers, long-term, systemic effects	1	74,3 mg/m <sup>3</sup>	8,2 mg/kg KG/day
Consumers, short-term, local effects	1	2	1,5 mg/cm <sup>2</sup>
Consumers, short-term, systemic effects	1	2	-

<sup>1)</sup> low oral toxicity: DNEL not calculated.

### **PNEC**

### 80-62-06 Methyl methacrylate:

PNEC freshwater 0,94 mg/L 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 an 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

Nitrile 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:

Protective clothing.

<sup>2)</sup> Long-term DNEL

hardly soluble

not determined

organic solvents

not determined

not determined

Brookfield

not determined

not determined

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES** 

#### 9.1 Information on basic physical and chemical properties Liquid Physical state: Blue Colour: Characteristic Odour: Not determined. Odour threshold: Safety relevant basic data: Unit Remark **Parameters** g/cm3 Density: not determined Bulk density: not determined pH value: not determined Melting point/Melting range: 100 °C Boiling point/Boiling range: °C MMA (DIN 51755) 10 Flash point: not applicable Inflammability (solid/gaseous) not explosive 1 Explosion dangerousness: Vol.-% 0,8 lower Explosion limit: 12,5 Vol.-% upper Explosion limit: 430 °C Ignition temperature: not determined Decomposition temperature: not determined Oxidising potential: 47 hPa at 20 °C Vapour pressure: not determined Rate of vaporization:

16

160-200

g/L

mPas

### 9.2 Other information

VOC: 0,01%

Water solubility:

n-Octanol/Water:

Solvent content:

Distribution coefficient:

Solvent separation test:

Liposolubilty:

Soluble in:

Viscosity:

### SECTION 10: STABILITY AND REACTIVITY

# 10.1 Reactivity

High temperature may trigger polymerization.

### 10.2 Chemical stability

The product is stable at intended storage and handling conditions.

### 10.3 Possible hazardous reactions

Violent reactions with strong alkalis and oxidising agents. Reacts with amines.

### 10.4 Conditions to avoid

Avoid direct sunlight, heat sources, sources of ignition, high temperatures.

### 10.5 Incompatible materials

Strong oxidising agents. Acids

### 10.6 Hazardous decomposition products

In the event of fire: toxic and inflammable gases/vapours.

<sup>&</sup>lt;sup>1</sup> The formation of explosive vapour/air mixtures is possible.



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### **SECTION 11: TOXICOLOGICAL INFORMATION**

# 11.1 Information on toxicological effects

**Acute Toxicity:** 

Relevant LD/LC50 Values:

Oral 80-62-6 Methyl methacrylate: LD50 (Rat) > 5000 mg/kg

3077-12-1 N,N-Di-(2-hydroxyethyl)-p-toluidine: LD50 (Rat) > 100 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

 Irritation to the skin:
 Causes skin irritation.

 Serious eye damage/irritation:
 Causes serious eye irritation.

 Sensitization:
 May cause allergic reactions.

Risk of aspiration toxicity: Based on available data the classification criteria are not met.

CMR effects:

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.

Other information:

STOT – Single exposure May cause respiratory irritation.

STOT – Repeated exposure Based on available data the classification criteria are not met.

### **SECTION 12: ECOLOGICAL INFORMATION**

12.1 Toxicity

**Aquatic Toxicity:** 

80-62-06 Methyl methacrylate EC 50 (daphnia magna): 69 mg/L / 48 h (OECD 202)

NOEC (daphnia magna): 37mg/L (OECD 202 Part 2, 21d)

EC 50 (salneastrum capricornutum): > 110 mg/L / 72 h (OECD 201)

EC 3 (pseudmonas putida): 100mg/L / 16 h LC 50 (oncorhynchus mykiss): > 79 mg/L / 96 h NOEC (danio rerio): >9,4 mg/L (OECD 210)

BSB5:  $0,14 \text{ g } O_2/g$ 

3077-12-1 N,N-Di-(2-hydroxyethyl)-p-

toluidine: EC 50 (daphnia magna): 28,8 mg/L

LC 50 (danio rerio): 17 mg/L

BSB5 11 mg O<sub>2</sub>/g: CSB: 2360 mg O<sub>2</sub>/g

12.2 Persistence and degradability

Main component of the mixture: Methyl methacrylate is easily biodegradable.

12.3 Bioaccumulative potential

Low bioaccumulative potential.

12.4 Mobility in Soil

The product is mobile in soils.

12.5 Results of PBT and vPvB assessment

The PBT/vPvB criteria of REACH are not applicable for this substance.

12.6 Other adverse effects

Water hazard class 2 (self-classification): hazardous for water.



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### **SECTION 13: DISPOSAL CONSIDERATIONS**

### Waste treatment methods

<u>Disposal methods for the product:</u>

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

European waste catalogue

08 00 00 WASTE FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS

(PAINTS, VARNISHES AND VITREOUS ENAMELS); ADHESIVES; SEALENTS AND PRINTING

**INKS** 

08 02 00 Wastes from MFSU of other coatings (including ceramic materials)

08 02 99 Wastes not otherwise specified

Disposal methods for use packing:

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

Only containers completely empty can be recycled.

### **SECTION 14: TRANSPORT INFORMATION**

### 14.1 UN-Number

UN 1866

### 14.2 UN proper shipping name

ADR 1866 Resin Solution

IMDG, IATA Resin Solution

### 14.3 Transport hazard class(es)

ADR



Class: 3 (F1) flammable liquids

IMDG, IATA



Class: 3 flammable liquids

# 14.4 Packing group

Π

### 14.5 Environmental hazards

Marine pollutant: No

### 14.6 Special precautions for user

<u>Kemler-number:</u> 33 <u>EMS-number:</u> F-E,S-E

### 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: 2



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Tunnel restriction code: D/E RID/GGVCEB see ADR

### **SECTION 15: REGULATORY INFROMATION**

### 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 2 (self-classification): hazardous for water.

### Other regulations, limitations and prohibitive regulations

Note:

Apply the appropriate local regulations.

### 15.2 Chemical safety assessment

A chemical safety assessment is not required 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.

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H304 May be fatal if swallowed or enters airways.

H315 Causes skin irritation.

H317 May cause allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.