

# SAFETY DATA SHEET

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

Revision: 26.10.2018

Version: 4.1/ENG

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

### 1.1 Product identifier

Trade name: **PLASTIFLOOR® Hardener M**

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

Relevant identified uses: Reaction initiator.

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

Org. Perox. G

Eye Irrit. 2 H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Repr. 1B H360D May damage the unborn child.

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects

### 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:

Dibenzoyl peroxide

## Hazard statements

H319

Causes serious eye irritation.

H317

May cause an allergic skin reaction.

H360D

May damage the unborn child.

H410

Very toxic to aquatic life with long lasting effects

## Precaution statements

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P264

Wash thoroughly after handling.

P273

Avoid release to the environment.

P280

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

P261

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

P272

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

P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P363

Wash contaminated clothing before reuse.

P333+P313

If skin irritation or rash occurs: Get medical advice/attention.

P501

Dispose of contents/container in accordance with local/regional/national/international regulations.

## **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**

CAS: 94-36-0 EINECS: 202-327-6 Index number: 617-008-00-0 REACH-number.: 01-2119511472-50	<u>Dibenzoyl peroxide</u> Classification acc. to 1272/2008/WE: Org. Perox. B H241, Aquatic Acute 1 H400 (M=10), Eye Irrit. 2 H319, Skin Sens. 1 H317	10 - 25 %
CAS: 84-61-7 EINECS: 201-545-9 Index number: 612-056-00-9	<u>Dicyclohexyl phthalate</u> Classification acc. to 1272/2008/WE: Repr. 1B H360D, Skin Sens. 1 H317, Aquatic Chronic 3 H412	10 - 25 %

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

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## ABSCHNITT 4: FIRST AID MEASUREMENTS

### 4.1 Description of first aid measurements

General information:	Care of personal protection of the first aider.
Inhalation:	Supply fresh air or oxygen, seek medical attention. If unconscious place and transport in the recovery position. Move victim to fresh air and keep calm.
Skin contact:	Wash immediately with soap and water and rinse thoroughly. Directly remove contaminated clothing.
Eye contact:	Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
Ingestion:	Consult doctor if symptoms persist.

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

No further information relevant.

### 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: Water spray; CO<sub>2</sub>; extinguishing powder. Fight larger fires with water spray or alcohol resistant foam.

Unsuitable extinguish media: -

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

Under certain fire conditions, traces of other toxic gases cannot be excluded.

### 5.3 Advise for firefighters

Special protective equipment: Do not inhale explosion gases or combustion gases.

Additional information: Cool endangered receptacles with water spray.  
Self-protection first!

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Exclude sources of ignition.

With further increase of temperature cool down with water spray from a safe distance.

If decomposition occurs, wear respirator with A filter.

Use personal protective measures. Keep unprotected persons away.

### 6.2 Environmental precautions

Do not allow to enter sewers/ surface or ground water.

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

Ensure adequate ventilation.

Pick up mechanically, collect in a suitable receptacle and dispose in accordance with government regulations

### 6.4 Reference to other sections

Disposal: Section 13. Personal protective equipment: Section 8 Safe Handling: Section 7.

Additional information: In case of transport accidents or large spills, notify appropriate authority.

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## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Before break and at the end of work hands should be thoroughly washed.  
Keep away from dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g. heavymetal compounds and amines).  
Oxidizing because of releasing oxygene.  
While using do not eat, drink or smoke.  
Avoid shock and friction.  
Information about fire – and explosion protection:  
Protect from heat.  
Prevent impact and friction.  
Dust can combine with air to form an explosive mixture.  
Substance/product is oxidising when dry.  
Avoid open flames, sparks, direct sunlight and other sources of ignition.

### 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 original container.  
Safely prevent any seepage into the ground.  
Only use containers that are specifically permitted for the substance / product.  
Storage compatibility: Organic peroxides may not be stored together with heavy metal compounds or Amines or mixtures of them.  
Keep away from foodstuffs, beverages and food.  
Additional information: Keep container tightly closed.  
Protect from heat and direct sunlight.  
Protect against contamination.  
Storage in a collecting chamber.  
Recommended Storage temperature: max. + 30°C

### 7.3 Specific end use(s)

No further relevant information available

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

Components with community workplace exposure limits:

#### **Dibenzoyl peroxide, CAS 94-36-0**

Limit value - Eight hours 5 E mg/m<sup>3</sup> [1(I);DFG]

#### **DNEL**

94-36-0 Dibenzoyl peroxide:

Oral	DNEL Longterm System	2 mg/kg bw/day (General Population)
Dermal	DNEL Longterm System	13.3 mg/kg bw/day (Worker)
Inhalation	DNEL Longterm System	39 mg/m <sup>3</sup> (Worker)

#### **PNEC**

94-36-0 Dibenzoyl peroxide:

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PNEC Marinewater sed	0.01	mg/kg sed dw
PNEC Freshwater	0.02	mg/l (AF 50)
PNEC Freshwater sed	0.013	mg/kg sed dw
PNEC STP	0.35	mg/l
PNEC Marinewater	0.000002	mg/l (AF 500)

## 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 prolonged contact with the skin.
- Avoid contact with skin and eyes.
- Do not eat/drink/smoke/snuff during work.
- Preventive skin protection by skin protection ointment

### Respiratory protection:

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



Combination filter 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
- Fluor rubber (Viton®)
- Nitrile rubber
- Neoprene

### 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.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

#### Appearance:

*Physical state:* Solid, powder  
*Colour:* graywhite  
*Odour:* Characteristic

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*Odour threshold:* Not determined.

Safety relevant basic data:

**Parameters**

		<b>Unit</b>	<b>Remark</b>
<i>Density:</i>			not determined
<i>Bulk density:</i>	650	kg/m <sup>3</sup>	
<i>pH value:</i>			not applicable
<i>Melting point/Melting range:</i>			not applicable
<i>Boiling point/Boiling range:</i>			not applicable
<i>Flash point:</i>			not applicable
<i>Inflammability (solid/gaseous)</i>			may cause fire
<i>Explosion dangerousness:</i>			not determined
<i>lower Explosion limit:</i>			not determined
<i>upper Explosion limit:</i>			not determined
<i>Ignition temperature:</i>			not determined
<i>Decomposition temperature:</i>			not determined
<i>Oxidising potential:</i>	+ 60	°C	SADT
<i>Vapour pressure:</i>			not determined
<i>Rate of vaporization:</i>			not applicable
<i>Water solubility:</i>			not applicable
<i>Liposolubility:</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>			not applicable
<i>Solvent separation test:</i>			not applicable
<i>Solvent content:</i>			not determined

**9.2 Other information**

No further relevant information available.

## SECTION 10: STABILITY AND REACTIVITY

**10.1 Reactivity**

No further information relevant.

**10.2 Chemical stability**

Thermal decomposition/ Conditions to be avoided

SADT (Self Accelerating Decomposition Temperature) is the lowest temperature, at which a self-accelerated decomposition in the transport packaging can occur. A dangerous self-accelerating decomposition reaction, at unfavourable conditions explosion or fire, through thermal decomposition can occur at or over the specified temperature. Contact with incompatible substances at or below SADT can cause decomposition.

No decomposition under normal storage and handling conditions.

Do not overheat to avoid thermal decomposition.

**10.3 Possible hazardous reactions**

Self-accelerating decomposition at SADT.

**10.4 Conditions to avoid**

No further information relevant.

**10.5 Incompatible materials**

Spontaneous decomposition at contact with Dirt, Rust, Chemicals, conc. Acids and conc. Alkalis as well as Accelerators (e.g. Heavy metal salts and Amines)

**10.6 Hazardous decomposition products**

Cracked Hydrocarbons; Carbon monoxide, Carbon dioxide

No dangerous decomposition products under normal storage and handling conditions.

The emergency measures will depend on the particular circumstances. An emergency plan should be present at the work site.

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## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

<u>Acute Toxicity:</u>	Based on available data, the classification criteria are not met.
<u>Relevant LD/LC50 Values:</u>	
Oral	94-36-0 Dibenzoyl peroxide: LD50 (Rat) > 5000 mg/kg Based on available data the classification criteria are not met.
<u>Irritation to the skin:</u>	Causes serious eye irritation.
<u>Serious eye damage/irritation:</u>	May cause allergic reactions.
<u>Sensitization:</u>	
<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	Suspected of damaging fertility or the unborn child.
<u>Other information:</u>	
STOT – Single exposure	Based on available data the classification criteria are not met.
STOT – Repeated exposure	Based on available data the classification criteria are not met.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

<u>Aquatic Toxicity:</u>	
94-36-0 Dibenzoyl peroxide	EC 50 (daphnia magna): 0,110 mg/L / 48 h EC 50 (pseudokirchinella subcapitata): 0,0711 mg/L / 72 h LC 50 (oncorhynchus mykiss): 0,0602 mg/L / 96 h

### 12.2 Persistence and degradability

No further information relevant.

### 12.3 Bioaccumulative potential

No further information relevant.

### 12.4 Mobility in Soil

No further information relevant.

#### Additional ecological information:

**General notes:** Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.

### 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

No further relevant information available.

## SECTION 13: DISPOSAL CONSIDERATIONS

### Waste treatment methods

#### Disposal methods for the product:

Must not be disposed together with household garbage. Do not allow product to reach sewerage.

#### European waste catalogue

Please make contact with the disposal company of your choice to agree on the waste key number.

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Disposal methods for use packing:

This product and its container must be disposed of as hazardous waste.

## SECTION 14: TRANSPORT INFORMATION

### 14.1 UN-Number

UN 3077

### 14.2 UN proper shipping name

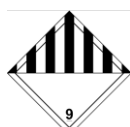
ADR ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (DIBENZOYL PEROXIDE)

IMDG, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (DIBENZOYL PEROXIDE),  
MARINE POLLUTANT

IATA ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (DIBENZOYL PEROXIDE)

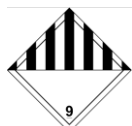
### 14.3 Transport hazard class(es)

ADR



Class: 9 (M7) Miscellaneous dangerous substances and articles  
Label: 9

IMDG, IATA



Class: 9 Miscellaneous dangerous substances and articles.  
Label: 9

### 14.4 Packing group

III

### 14.5 Environmental hazards

This product contains environmentally dangerous substances: DIBENZOYL PEROXIDE

Marine pollutant: Yes, Symbol (Fish and Tree)

Special labelling (ADR, IATA): Symbol (Fish and Tree)

### 14.6 Special precautions for user

Warning: Miscellaneous dangerous substances and articles.

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

Not applicable.

Transport/Additional information: Not subject to the requirement for Class 5.2. (exempt)

ADR:

Limited quantities (LQ): 5 kg  
Transport category: 3  
Tunnel restriction code: E  
RID/GGVCEB see ADR

IMDG

Limited quantities (LQ): 5 kg

## SECTION 15: REGULATORY INFORMATION

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



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## **Directive 2012/18/EU**

Qualifying quantity (tonnes) for the application of lower-tier requirements:

100 t

Qualifying quantity (tonnes) for the application of upper-tier requirements:

200 t

## **National regulations:**

Other regulations, limitations and prohibitive regulations

### Note:

Take care of the respective local regulations.

## **15.2 Chemical safety assessment**

A Chemical Safety Assessment has not been carried out.

## SECTION 16: OTHER INFORMATION

### **Additional details:**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

### Relevant Phrases:

- |       |  |
|-------|--|
| H241  | Heating may cause a fire or explosion.               |
| H317  | May cause allergic skin reaction.                    |
| H319  | Causes serious eye irritation.                       |
| H360D | May damage the unborn child                          |
| H400  | Very toxic to aquatic life.                          |
| H410  | Very toxic to aquatic life with long lasting effects |
| H412  | Harmful to aquatic life with long lasting effects.   |