

Safety Data Sheet

according to UK REACH Regulation

PLASTIFLOOR® 332Z

Revision date: 23.05.2022

Product code:

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

PLASTIFLOOR® 332Z

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

Coatings.

Uses advised against

Any non-intended use.

1.3. Details of the supplier of the safety data sheet

| | | |
|-------------------------|---|--------------------------------|
| Company name: | Plasti Chemie Produktionsgesellschaft mbH | |
| Street: | Falgardring 1 | |
| Place: | D-08223 Falkenstein | |
| Telephone: | +49 (0)3745/74432-0 | Telefax: +49 (0)3745/74432-27 |
| e-mail: | volkmar.lull@plasti-chemie.de | |
| Contact person: | Hr. Volkmar Lull | Telephone: +49 (0)3745/74432-0 |
| Internet: | www.plasti-chemie.de | |
| Responsible Department: | volkmar.lull@plasti-chemie.de | |

1.4. Emergency telephone**number:**

Chemtrec: 1-800-424-9300 for US
+1 703-527-3887 outside US
NHS Direct (UK): +44 (0) 845 46 47; 111

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****GB CLP Regulation**

Hazard categories:
Flammable liquid: Flam. Liq. 2
Skin corrosion/irritation: Skin Irrit. 2
Respiratory or skin sensitisation: Skin Sens. 1
Specific target organ toxicity - single exposure: STOT SE 3
Specific target organ toxicity - repeated exposure: STOT RE 2
Hazardous to the aquatic environment: Aquatic Chronic 3
Hazard Statements:
Highly flammable liquid and vapour.
Causes skin irritation.
May cause an allergic skin reaction.
May cause respiratory irritation.
May cause damage to organs through prolonged or repeated exposure.
Harmful to aquatic life with long lasting effects.

2.2. Label elements**GB CLP Regulation****Hazard components for labelling**

methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate
2-ethylhexyl acrylate
Dibutyl maleate
Tetramethylene dimethacrylate
n-butyl methacrylate
Reaction mass of 2-[[2-(2-hydroxyethoxy)ethyl][4-methylphenyl]amino]ethanol and 2,2'-[[4-methylphenyl]imino]diethanol

Signal word: Danger

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Pictograms:

Hazard statements

| | |
|------|--|
| H225 | Highly flammable liquid and vapour. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H335 | May cause respiratory irritation. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H412 | Harmful to aquatic life with long lasting effects. |

Precautionary statements

| | |
|-----------|--|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P260 | Do not breathe dust/fume/gas/mist/vapours/spray. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P302+P352 | IF ON SKIN: Wash with plenty of soap and water. |
| P333+P313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P403+P235 | Store in a well-ventilated place. Keep cool. |

2.3. Other hazards

In use, may form flammable/explosive vapour-air mixture.
 The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition/information on ingredients
3.2. Mixtures
Hazardous components

| CAS No | Chemical name | Quantity |
|-----------|---|------------------|
| | EC No | |
| | Index No | |
| | REACH No | |
| | GHS Classification | |
| 80-62-6 | methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate | 40 - < 45 % |
| | 201-297-1 | 607-035-00-6 |
| | | 01-2119452498-28 |
| | Flam. Liq. 2, Skin Irrit. 2, Skin Sens. 1, STOT SE 3; H225 H315 H317 H335 | |
| 103-11-7 | 2-ethylhexyl acrylate | 25 - < 30 % |
| | 203-080-7 | 607-107-00-7 |
| | | 01-2119453158-37 |
| | Skin Irrit. 2, Skin Sens. 1, STOT SE 3, Aquatic Chronic 3; H315 H317 H335 H412 | |
| 105-76-0 | Dibutyl maleate | 10 - < 12 % |
| | 203-328-4 | |
| | | 01-2119523581-45 |
| | Skin Sens. 1, STOT RE 2, Aquatic Acute 1; H317 H373 H400 | |
| 2082-81-7 | Tetramethylene dimethacrylate | 1 - < 3 % |
| | 218-218-1 | |
| | | 01-2119967415-30 |
| | Skin Sens. 1B; H317 | |
| 97-88-1 | n-butyl methacrylate | 1 - < 3 % |
| | 202-615-1 | 607-033-00-5 |
| | | 01-2119486394-28 |
| | Flam. Liq. 3, Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, STOT SE 3; H226 H315 H319 H317 H335 | |
| - | Reaction mass of 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]ethanol and 2,2'-[[4-methylphenyl]imino]diethanol | 0.5 - < 1 % |
| | 911-490-9 | |
| | | 01-2119979579-10 |

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| | | |
|--|--|--|
| | Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1, Aquatic Chronic 3; H302 H315 H318 H317 H412 | |
|--|--|--|

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

| CAS No | EC No | Chemical name | Quantity |
|--|-----------|---|-------------|
| Specific Conc. Limits, M-factors and ATE | | | |
| 80-62-6 | 201-297-1 | methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate | 40 - < 45 % |
| | | inhalation: LC50 = 29,8 mg/l (dusts or mists); dermal: LD50 = > 5000 mg/kg; oral: LD50 = >5000 mg/kg | |
| 103-11-7 | 203-080-7 | 2-ethylhexyl acrylate | 25 - < 30 % |
| | | dermal: LD50 = >2000 mg/kg; oral: LD50 = 4435 mg/kg | |
| 105-76-0 | 203-328-4 | Dibutyl maleate | 10 - < 12 % |
| | | dermal: LD50 = > 2000 mg/kg; oral: LD50 = >= 3730 mg/kg | |
| 2082-81-7 | 218-218-1 | Tetramethylene dimethacrylate | 1 - < 3 % |
| | | dermal: LD50 = > 3000 mg/kg; oral: LD50 = (10,066) mg/kg | |
| 97-88-1 | 202-615-1 | n-butyl methacrylate | 1 - < 3 % |
| | | inhalation: LC50 = 29 mg/l (dusts or mists); dermal: LD50 = 10181 mg/kg; oral: LD50 = > 17900 mg/kg | |
| - | 911-490-9 | Reaction mass of 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]ethanol and 2,2'-[[4-methylphenyl]imino]diethanol | 0.5 - < 1 % |
| | | dermal: LD50 = > 2000 mg/kg; oral: LD50 = 619 mg/kg | |

Further Information

Product does not contain listed SVHC substances > 0,1 % according to Regulation (EC) No. 1907/2006 Article 59 (REACH)

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Take off immediately all contaminated clothing.

First aider: Pay attention to self-protection!

After inhalation

Remove person to fresh air and keep comfortable for breathing. In case of respiratory tract irritation, consult a physician.

After contact with skin

Take off immediately all contaminated clothing. Wash with plenty of water. In case of skin irritation, seek medical treatment.

After contact with eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

After ingestion

Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting. Never give anything by mouth to an unconscious person or a person with cramps. In all cases of doubt, or when symptoms persist, seek medical advice.

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

No information available.

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

Treat symptomatically.

SECTION 5: Firefighting measures

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5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂). Dry extinguishing powder. alcohol resistant foam.
In case of major fire and large quantities: Atomized water.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Can be released in case of fire: Gas/vapours, irritant. Carbon monoxide Carbon dioxide (CO₂).

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. In case of fire and/or explosion do not breathe fumes.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Use water spray jet to protect personnel and to cool endangered containers.

In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures

Do not breathe gas/vapour/aerosol. Avoid contact with skin, eyes and clothes.

For non-emergency personnel

Remove persons to safety. Remove all sources of ignition. Ventilate affected area.
Wear personal protection equipment. (See section 8.)

For emergency responders

No special measures are necessary.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Danger of explosion! Cover drains. Prevent spread over a wide area (e.g. by containment or oil barriers). In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

For containment

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Ventilate affected area.

Treat the recovered material as prescribed in the section on waste disposal.

For cleaning up

Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Provide adequate ventilation as well as local exhaustion at critical locations.

Do not breathe gas/vapour/aerosol. Avoid contact with skin, eyes and clothes.

Wear suitable protective clothing. (See section 8.)

Advice on protection against fire and explosion

Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharges.

Flammable vapours can accumulate in head space of closed systems. In use, may form flammable/explosive

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vapour-air mixture. Heating causes rise in pressure with risk of bursting.

Advice on general occupational hygiene

The usual precautions for handling chemicals should be considered.

Keep away from food, drink and animal feedingstuffs.

Always close containers tightly after the removal of product. When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Protect skin by using skin protective cream. Take off contaminated clothing and wash it before reuse.

Further information on handling

General protection and hygiene measures: See section 8.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Protect against direct sunlight.

Ensure adequate ventilation of the storage area.

Make sure spills can be contained (e.g. sump pallets or kerbed areas).

Hints on joint storage

Do not store together with: Gas. Explosives. Flammable solids. Pyrophoric liquids and solids. Self-heating substances and mixtures. Substances and mixtures which, in contact with water, emit flammable gases.

Oxidizing liquids. Oxidizing solids. ammonium nitrate. Self-reactive substances and mixtures. Organic peroxides. Non-combustible toxic substances. Radioactive substances. Infectious substances.

Further information on storage conditions

Keep the packing dry and well sealed to prevent contamination and absorption of humidity.

Protect against: UV-radiation/sunlight. heat. Humidity frost.

storage temperature: 5-25°C

7.3. Specific end use(s)

See section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

| CAS No | Substance | ppm | mg/m ³ | fibres/ml | Category | Origin |
|---------|---------------------|-----|-------------------|-----------|---------------|--------|
| 80-62-6 | Methyl methacrylate | 50 | 208 | | TWA (8 h) | WEL |
| | | 100 | 416 | | STEL (15 min) | WEL |

DNEL/DMEL values

| CAS No | Substance | Exposure route | Effect | Value |
|--------------------------|--|----------------|----------|------------------------|
| 80-62-6 | methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate | | | |
| Worker DNEL, long-term | | inhalation | systemic | 208 mg/m ³ |
| Worker DNEL, long-term | | dermal | systemic | 13.67 mg/kg bw/day |
| Worker DNEL, long-term | | dermal | local | 1.5 mg/cm ² |
| Worker DNEL, acute | | dermal | local | 1.5 mg/cm ² |
| Worker DNEL, long-term | | inhalation | local | 208 mg/m ³ |
| Consumer DNEL, long-term | | inhalation | systemic | 74.3 mg/m ³ |
| Consumer DNEL, long-term | | inhalation | local | 104 mg/m ³ |
| Consumer DNEL, long-term | | dermal | systemic | 8.2 mg/kg bw/day |
| Consumer DNEL, long-term | | dermal | local | 1.5 mg/cm ² |

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| | | | |
|--------------------------|---|----------|-------------------------|
| Consumer DNEL, acute | dermal | local | 1.5 mg/cm ² |
| 105-76-0 | Dibutyl maleate | | |
| Worker DNEL, long-term | inhalation | systemic | 5,28 mg/m ³ |
| Worker DNEL, long-term | inhalation | local | 5,28 mg/m ³ |
| Worker DNEL, long-term | dermal | systemic | 0,42 mg/kg bw/day |
| Worker DNEL, acute | dermal | systemic | 24,2 mg/kg bw/day |
| Worker DNEL, long-term | dermal | local | 4,12 mg/cm ² |
| Consumer DNEL, long-term | oral | systemic | 0,25 mg/kg bw/day |
| 2082-81-7 | Tetramethylene dimethacrylate | | |
| Worker DNEL, long-term | inhalation | systemic | 14,5 mg/m ³ |
| Worker DNEL, long-term | dermal | systemic | 4,2 mg/kg bw/day |
| Consumer DNEL, long-term | inhalation | systemic | 4,3 mg/m ³ |
| Consumer DNEL, long-term | dermal | systemic | 2,5 mg/kg bw/day |
| Consumer DNEL, long-term | oral | systemic | 2,5 mg/kg bw/day |
| 97-88-1 | n-butyl methacrylate | | |
| Worker DNEL, long-term | dermal | local | 1 % |
| Worker DNEL, acute | dermal | local | 1 % |
| Consumer DNEL, long-term | dermal | local | 1 % |
| Consumer DNEL, acute | dermal | local | 1 % |
| Consumer DNEL, long-term | inhalation | systemic | 66,5 mg/m ³ |
| Consumer DNEL, long-term | dermal | systemic | 3 mg/kg bw/day |
| Consumer DNEL, long-term | inhalation | local | 366,4 mg/m ³ |
| Worker DNEL, long-term | inhalation | local | 409 mg/m ³ |
| Worker DNEL, long-term | dermal | systemic | 5 mg/kg bw/day |
| Worker DNEL, long-term | inhalation | systemic | 415,9 mg/m ³ |
| - | Reaction mass of 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]ethanol and 2,2'-[[4-methylphenyl]imino]diethanol | | |
| Worker DNEL, long-term | inhalation | systemic | 9,8 mg/m ³ |
| Worker DNEL, long-term | dermal | systemic | 1,4 mg/kg bw/day |
| Consumer DNEL, long-term | inhalation | systemic | 2,9 mg/m ³ |
| Consumer DNEL, long-term | dermal | systemic | 0,83 mg/kg bw/day |
| Consumer DNEL, long-term | oral | systemic | 0,83 mg/kg bw/day |

PNEC values

| CAS No | Substance | Value |
|--|--|------------|
| Environmental compartment | | Value |
| 80-62-6 | methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate | |
| Freshwater | | 0.94 mg/l |
| Marine water | | 0.94 mg/l |
| Freshwater sediment | | 5.74 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 10 mg/l |
| Soil | | 1.47 mg/kg |

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| | | |
|--|---|-------------|
| 105-76-0 | Dibutyl maleate | |
| Freshwater | | 0,001 mg/l |
| Freshwater (intermittent releases) | | 0,006 mg/l |
| Marine water | | 0 mg/l |
| Freshwater sediment | | 0,031 mg/kg |
| Marine sediment | | 0,003 mg/kg |
| Secondary poisoning | | 6,33 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 4,886 mg/l |
| Soil | | 0,006 mg/kg |
| 2082-81-7 | Tetramethylene dimethacrylate | |
| Freshwater | | 0,043 mg/l |
| Freshwater (intermittent releases) | | 0,098 mg/l |
| Marine water | | 0,004 mg/l |
| Freshwater sediment | | 3,12 mg/kg |
| Marine sediment | | 0,312 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 2 mg/l |
| Soil | | 0,573 mg/kg |
| 97-88-1 | n-butyl methacrylate | |
| Freshwater | | 0,017 mg/l |
| Freshwater (intermittent releases) | | 0,056 mg/l |
| Marine water | | 0,002 mg/l |
| Freshwater sediment | | 4,73 mg/kg |
| Marine sediment | | 0,473 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 31,7 mg/l |
| Soil | | 0,935 mg/kg |
| - | Reaction mass of 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]ethanol and 2,2'-[[4-methylphenyl]imino]diethanol | |
| Freshwater | | 0,048 mg/l |
| Freshwater (intermittent releases) | | 0,48 mg/l |
| Marine water | | 0,005 mg/l |
| Freshwater sediment | | 1,2 mg/kg |
| Marine sediment | | 0,12 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 10 mg/l |
| Soil | | 0,21 mg/kg |

8.2. Exposure controls

Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

Provide adequate ventilation as well as local exhaust at critical locations.

Individual protection measures, such as personal protective equipment

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Eye/face protection

Recommended eye protection brand: Tightly sealed safety glasses. (BS/EN 166)

Hand protection

In case of prolonged or frequently repeated skin contact: Wear suitable gloves.

Suitable material: Butyl rubber.

Thickness of glove material: 0,5 mm

Breakthrough time \geq 480 min. penetration time (maximum wearing period): ~ 120 min. (estimated)

In the case of wanting to use the gloves again, clean them before taking off and air them well. Before using check leak tightness / impermeability.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

The selected protective gloves have to satisfy the specifications of EU Directive EC/2016/425 and the standard EN 374 derived from it.

Skin protection

Wear fire/flammable resistant/retardant clothing.

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500 (D).

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at:

Generation/formation of aerosols

Exceeding exposure limit values

Insufficient ventilation

Suitable respiratory protective equipment: Combination filtering device (EN 14387) Type: A/P1-3

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

Environmental exposure controls

Do not allow uncontrolled discharge of product into the environment.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

| | |
|-----------------|----------------|
| Physical state: | liquid |
| Colour: | violet |
| Odour: | characteristic |

Test method**Changes in the physical state**

| | |
|---|-----------------------|
| Melting point/freezing point: | not applicable |
| Boiling point or initial boiling point and boiling range: | not determined |
| Flash point: | 10 (MMA) °C DIN 51755 |

Explosive properties

In use, may form flammable/explosive vapour-air mixture.

| | |
|----------------------------|----------------|
| Lower explosion limits: | not determined |
| Upper explosion limits: | not determined |
| Auto-ignition temperature: | not determined |
| Decomposition temperature: | not determined |

Oxidizing properties

none.

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| | |
|---|----------------|
| pH-Value: | not determined |
| Viscosity / dynamic: (at 40 °C) | not determined |
| Viscosity / kinematic: (at 20 °C) | not determined |
| Flow time: | not determined |
| Water solubility: | insoluble |
| Solubility in other solvents not determined | |
| Partition coefficient n-octanol/water: | not determined |
| Vapour pressure: (at 20 °C) | 38,7 (MMA) hPa |
| Density (at 20 °C): | not determined |
| Relative vapour density: | not determined |

9.2. Other information**Other safety characteristics**

| | |
|--------------------------|----------------|
| Solvent separation test: | not determined |
| Solvent content: | not determined |
| Solid content: | not determined |
| Evaporation rate: | not determined |

Further Information

No information available.

SECTION 10: Stability and reactivity**10.1. Reactivity**

Can polymerise exothermically if heated, exposed to air, sunlight or by addition of free radical initiators.

10.2. Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactionsReacts with : Amines
Refer to chapter 10.5.**10.4. Conditions to avoid**Keep away from heat. Danger of explosion!
In use may form flammable/explosive vapour-air mixture.
Heating causes rise in pressure with risk of bursting.**10.5. Incompatible materials**

Materials to avoid: Oxidizing agents, strong. Strong acid.

10.6. Hazardous decomposition productsDoes not decompose when used for intended uses.
Can be released in case of fire: Gas/vapours, irritant. Carbon monoxide Carbon dioxide (CO₂).**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in GB CLP Regulation****Toxicokinetics, metabolism and distribution**

No data available.

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Acute toxicity

Based on available data, the classification criteria are not met.

| CAS No | Chemical name | | | | |
|-----------|---|---------------------|---------|--|--|
| | Exposure route | Dose | Species | Source | Method |
| 80-62-6 | methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate | | | | |
| | oral | LD50 >5000 mg/kg | Rat | ECHA Dossier | WoE |
| | dermal | LD50 > 5000 mg/kg | Rabbit | ECHA Dossier | OECD Guideline 402 |
| | inhalation (4 h) aerosol | LC50 29,8 mg/l | Rat | ECHA Dossier | |
| 103-11-7 | 2-ethylhexyl acrylate | | | | |
| | oral | LD50 4435 mg/kg | Rat | ECHA Dossier | |
| | dermal | LD50 >2000 mg/kg | Rabbit | ECHA Dossier | |
| 105-76-0 | Dibutyl maleate | | | | |
| | oral | LD50 >= 3730 mg/kg | Rat | Publication (1954) | Follows basic principles of an OECD401 b |
| | dermal | LD50 > 2000 mg/kg | Rat | Study report (1992) | OECD Guideline 402 |
| 2082-81-7 | Tetramethylene dimethacrylate | | | | |
| | oral | LD50 (10,066) mg/kg | Rat | Study report (1978) | OECD Guideline 401 |
| | dermal | LD50 > 3000 mg/kg | Rabbit | Kirk-Othmer, Encyclopedia of chemical te | |
| 97-88-1 | n-butyl methacrylate | | | | |
| | oral | LD50 > 17900 mg/kg | Rat | J. Ind. Hyg. Toxicol. 23: 343-351 (1941) | other: pre-guideline development |
| | dermal | LD50 10181 mg/kg | Rabbit | Amer. Ind. Hyg. Assoc. J. Vol 30 (5): 47 | other |
| | inhalation (4 h) aerosol | LC50 29 mg/l | Rat | ECHA Dossier | |
| - | Reaction mass of 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]ethanol and 2,2'-[[4-methylphenyl]imino]diethanol | | | | |
| | oral | LD50 619 mg/kg | Rat | Study report (1996) | OECD Guideline 401 |
| | dermal | LD50 > 2000 mg/kg | Rat | Study report (2013) | OECD Guideline 402 |

Irritation and corrosivity

Causes skin irritation.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

Sensitising effects

May cause an allergic skin reaction. (methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; 2-ethylhexyl acrylate; Dibutyl maleate; Tetramethylene dimethacrylate; n-butyl methacrylate; Reaction mass of 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]ethanol and 2,2'-[[4-methylphenyl]imino]diethanol)

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

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STOT-single exposure

May cause respiratory irritation. (methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; 2-ethylhexyl acrylate)

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure. (Dibutyl maleate)

Aspiration hazard

Based on available data, the classification criteria are not met.

Specific effects in experiment on an animal

No data available.

11.2. Information on other hazards

Endocrine disrupting properties

No data available.

SECTION 12: Ecological information

12.1. Toxicity

| CAS No | Chemical name | | | | | |
|-----------|--|-------------------|-----------|---|---------------------|--------------------|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method |
| 80-62-6 | methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate | | | | | |
| | Acute fish toxicity | LC50 >79 mg/l | 96 h | Oncorhynchus mykiss | ECHA Dossier | EPA OTS 797.1400 |
| | Acute algae toxicity | ErC50 mg/l >110 | 72 h | Pseudokirchnerella subcapitata | ECHA Dossier | OECD Guideline 201 |
| | Acute crustacea toxicity | EC50 69 mg/l | 48 h | Daphnia magna | ECHA Dossier | EPA OTS 797.1300 |
| | Fish toxicity | NOEC 9,4 mg/l | 35 d | Brachydanio rerio | ECHA Dossier | |
| | Crustacea toxicity | NOEC 37 mg/l | 21 d | Daphnia magna | ECHA Dossier | OECD Guideline 211 |
| | Acute bacteria toxicity | (100 mg/l) | | activated sludge | ECHA Dossier | OECD 301C |
| 103-11-7 | 2-ethylhexyl acrylate | | | | | |
| | Acute fish toxicity | LC50 1,81 mg/l | 96 h | Oncorhynchus mykiss | ECHA Dossier | |
| | Acute algae toxicity | ErC50 1,71 mg/l | 72 h | Desmodesmus subspicatus | ECHA Dossier | |
| | Acute crustacea toxicity | EC50 1,3 mg/l | 48 h | Daphnia magna | ECHA Dossier | |
| 105-76-0 | Dibutyl maleate | | | | | |
| | Acute fish toxicity | LC50 1,2 mg/l | 96 h | Oncorhynchus mykiss | Study report (1991) | OECD Guideline 203 |
| | Acute algae toxicity | ErC50 6,2 mg/l | 72 h | Desmodesmus subspicatus | Study report (1992) | OECD Guideline 201 |
| | Acute bacteria toxicity | (488,6 mg/l) | 3 h | activated sludge of a predominantly domestic sewage | Study report (2010) | OECD Guideline 209 |
| 2082-81-7 | Tetramethylene dimethacrylate | | | | | |
| | Acute algae toxicity | ErC50 (4,97) mg/l | 72 h | Desmodesmus subspicatus | REACH Dossier | OECD Guideline 201 |
| | Crustacea toxicity | NOEC 5,09 mg/l | 21 d | Daphnia magna | REACH Dossier | OECD Guideline 211 |
| 97-88-1 | n-butyl methacrylate | | | | | |
| | Acute fish toxicity | LC50 11 mg/l | 96 h | Pimephales promelas | Study report (1993) | OECD Guideline 203 |

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| | | | | | | | |
|---|---|---------------|-----------|------|---|----------------------------------|-----------------------|
| | Acute algae toxicity | ErC50 mg/l | 31,2 | 72 h | Pseudokirchneriella subcapitata | Study report (1998) | OECD Guideline 201 |
| | Acute crustacea toxicity | EC50 mg/l | 25,4 | 48 h | Daphnia magna | Study report (1998) | OECD Guideline 202 |
| | Crustacea toxicity | NOEC | 1,1 mg/l | 21 d | Daphnia magna | Study report (1998) | OECD Guideline 211 |
| - | Reaction mass of 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]ethanol and 2,2'-[[4-methylphenyl]imino]diethanol | | | | | | |
| | Acute fish toxicity | LC50 mg/l | > 100 | 96 h | Cyprinus carpio | REACH Registration Dossier | OECD Guideline 203 |
| | Acute algae toxicity | ErC50 mg/l | > 100 | 72 h | Pseudokirchneriella subcapitata | REACH Registration Dossier | OECD Guideline 201 |
| | Acute crustacea toxicity | EC50 | (48) mg/l | 48 h | Daphnia magna | REACH Registration Dossier | OECD Guideline 202 |
| | Acute bacteria toxicity | (> 1000 mg/l) | | 3 h | activated sludge of a predominantly domestic sewage | REACH Registration Dossier | OECD Guideline 209 |

12.2. Persistence and degradability

| CAS No | Chemical name | Method | Value | d | Source |
|----------|--|------------|-------|----|--------------|
| | | Evaluation | | | |
| 80-62-6 | methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate | | | | |
| | OECD 301C / ISO 9408 / EWG 92/69 Anhang V, C.4-F | | 94% | 14 | ECHA Dossier |
| | Easily biodegradable (concerning to the criteria of the OECD) | | | | |
| 103-11-7 | 2-ethylhexyl acrylate | | | | |
| | OECD 301F / ISO 9408 / EEC 92/69/V, C.4-D | | >80% | 28 | ECHA Dossier |
| | Readily biodegradable (according to OECD criteria). | | | | |
| 97-88-1 | n-butyl methacrylate | | | | |
| | OECD 301C / ISO 9408 / EEC 92/69/V, C.4-F | | 88% | 28 | ECHA Dossier |
| | Readily biodegradable (according to OECD criteria). | | | | |

12.3. Bioaccumulative potential
Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|-----------|---|-------------|
| 80-62-6 | methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate | 1,32 |
| 103-11-7 | 2-ethylhexyl acrylate | 4,64 (25°C) |
| 105-76-0 | Dibutyl maleate | 3,39 |
| 2082-81-7 | Tetramethylene dimethacrylate | 3,1 |
| 97-88-1 | n-butyl methacrylate | 2,99 |
| - | Reaction mass of 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]ethanol and 2,2'-[[4-methylphenyl]imino]diethanol | 2 |

BCF

| CAS No | Chemical name | BCF | Species | Source |
|----------|----------------------|-------|---------|----------------------|
| 105-76-0 | Dibutyl maleate | 81,34 | | U.S. Environmental P |
| 97-88-1 | n-butyl methacrylate | 70 | | J. Fish Board Can. 3 |

12.4. Mobility in soil

No data available.

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12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties

No data available.

12.7. Other adverse effects

No data available.

Further information

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations**

Dispose of waste according to applicable legislation. Consult the local waste disposal expert about waste disposal. Non-contaminated packages may be recycled. According to (EWC) European Waste Catalogue, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Control report for waste code/ waste marking according to (EWC) European Waste Catalogue:

List of Wastes Code - residues/unused products

080299 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of other coatings (including ceramic materials); wastes not otherwise specified

List of Wastes Code - used product

080299 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of other coatings (including ceramic materials); wastes not otherwise specified

List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information**Land transport (ADR/RID)**

| | |
|--|----------------|
| 14.1. UN number: | UN 1866 |
| 14.2. UN proper shipping name: | RESIN SOLUTION |
| 14.3. Transport hazard class(es): | 3 |
| 14.4. Packing group: | II |
| Hazard label: | 3 |



| | |
|----------------------|------|
| Classification code: | F1 |
| Special Provisions: | 640D |
| Limited quantity: | 5 L |
| Excepted quantity: | E2 |

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| | |
|--------------------------|-----|
| Transport category: | 2 |
| Hazard No: | 33 |
| Tunnel restriction code: | D/E |

Inland waterways transport (ADN)

| | |
|---|----------------|
| <u>14.1. UN number:</u> | UN 1866 |
| <u>14.2. UN proper shipping name:</u> | Resin solution |
| <u>14.3. Transport hazard class(es):</u> | 3 |
| <u>14.4. Packing group:</u> | II |
| Hazard label: | 3 |



| | |
|----------------------|------|
| Classification code: | F1 |
| Special Provisions: | 640D |
| Limited quantity: | 5 L |
| Excepted quantity: | E2 |

Marine transport (IMDG)

| | |
|---|----------------|
| <u>14.1. UN number:</u> | UN 1866 |
| <u>14.2. UN proper shipping name:</u> | RESIN SOLUTION |
| <u>14.3. Transport hazard class(es):</u> | 3 |
| <u>14.4. Packing group:</u> | II |
| Hazard label: | 3 |



| | |
|---------------------|----------|
| Marine pollutant: | NO |
| Special Provisions: | - |
| Limited quantity: | 5 L |
| Excepted quantity: | E2 |
| EmS: | F-E, S-E |

Air transport (ICAO-TI/IATA-DGR)

| | |
|---|----------------|
| <u>14.1. UN number:</u> | UN 1866 |
| <u>14.2. UN proper shipping name:</u> | RESIN SOLUTION |
| <u>14.3. Transport hazard class(es):</u> | 3 |
| <u>14.4. Packing group:</u> | II |
| Hazard label: | 3 |



| | | |
|--|------|------|
| Special Provisions: | A3 | |
| Limited quantity Passenger: | 1 L | |
| Passenger LQ: | Y341 | |
| Excepted quantity: | E2 | |
| IATA-packing instructions - Passenger: | | 353 |
| IATA-max. quantity - Passenger: | | 5 L |
| IATA-packing instructions - Cargo: | | 364 |
| IATA-max. quantity - Cargo: | | 60 L |

14.5. Environmental hazards

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ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

See section 8.

14.7. Maritime transport in bulk according to IMO instruments

not relevant.

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3

2010/75/EU (VOC): not determined

2004/42/EC (VOC): not determined

Information according to 2012/18/EU (SEVESO III): P5c FLAMMABLE LIQUIDS

Additional information

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (amended by Regulation (EU) No 2020/878)

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

REACH 1907/2006 Appendix XVII, No (mixture): 3, 40

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D): 2 - obviously hazardous to water

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate

2-ethylhexyl acrylate

Tetramethylene dimethacrylate

SECTION 16: Other information

Changes

Rev. 1.00; Initial release: 25.05.2021

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

CAS: Chemical Abstracts Service

CLP: Classification, Labelling and Packaging of substances and mixtures

DNEL: Derived No Effect Level

d: day(s)

EINECS: European Inventory of Existing Commercial chemical Substances

ELINCS: European List of Notified Chemical Substances

ECHA: European Chemicals Agency

EWC: European Waste Catalogue

IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

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GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

h: hour

LOAEL: Lowest observed adverse effect level

LOAEC: Lowest observed adverse effect concentration

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NOAEL: No observed adverse effect level

NOAEC: No observed adverse effect concentration

NLP: No-Longer Polymers

N/A: not applicable

OECD: Organisation for Economic Co-operation and Development

PNEC: predicted no effect concentration

PBT: Persistent bioaccumulative toxic

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

REACH: Registration, Evaluation, Authorisation of Chemicals

SVHC: substance of very high concern

TRGS: Technische Regeln für Gefahrstoffe

UN: United Nations

VOC: Volatile Organic Compounds

Classification for mixtures and used evaluation method according to GB CLP Regulation

| Classification | Classification procedure |
|-------------------------|--------------------------|
| Flam. Liq. 2; H225 | On basis of test data |
| Skin Irrit. 2; H315 | Calculation method |
| Skin Sens. 1; H317 | Calculation method |
| STOT SE 3; H335 | Calculation method |
| STOT RE 2; H373 | Calculation method |
| Aquatic Chronic 3; H412 | Calculation method |

Relevant H and EUH statements (number and full text)

| | |
|------|--|
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H412 | Harmful to aquatic life with long lasting effects. |

Further Information

Classification according to Regulation (EC) No 1272/2008 [CLP] - Classification procedure:

Health hazards: Calculation method.

Environmental hazards: Calculation method.

Physical hazards: On basis of test data and / or calculated and / or estimated.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)