



SAFETY DATA SHEET MIT-Cool part A

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name MIT-Cool part A

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

Identified uses Resin.

1.3. Details of the supplier of the safety data sheet

Supplier Mungo Befestigungstechnik AG
Bornfeldstrasse 2
CH-4603 Olten
Switzerland
+41 62 206 75 75
+41 62 206 75 85
mungo@mungo.ch

Web www.mungo.ch

1.4. Emergency telephone number

Emergency telephone 145 (24h)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

Physical hazards Flam. Liq. 3 - H226

Health hazards Eye Irrit. 2 - H319 Skin Sens. 1 - H317

Environmental hazards Not Classified

Classification (67/548/EEC or 1999/45/EC) Xi; R36. R10, R43

Human health Vapours may irritate throat/respiratory system. May irritate eyes and skin. May cause skin sensitisation or allergic reactions in sensitive individuals.

2.2. Label elements

Pictogram



Signal word Warning

Hazard statements H226 Flammable liquid and vapour.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.

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| | |
|---|---|
| Precautionary statements | <p>P261 Avoid breathing vapour/spray.</p> <p>P280 Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P302+P352 IF ON SKIN: Wash with plenty of water.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.</p> <p>P501 Dispose of contents/container in accordance with national regulations.</p> |
| Contains | 2-HYDROXYPROPYL METHACRYLATE, VINYL TOLUENE |
| Supplementary precautionary statements | <p>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>P233 Keep container tightly closed.</p> <p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P333+P313 If skin irritation or rash occurs: Get medical advice/attention.</p> <p>P337+P313 If eye irritation persists: Get medical advice/attention.</p> <p>P403+P235 Store in a well-ventilated place. Keep cool.</p> |

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

| | | |
|--|--|--|
| 2-HYDROXYPROPYL METHACRYLATE | | 5-10% |
| CAS number: 923-26-2 | EC number: 213-090-3 | |
| Classification | Classification (67/548/EEC or 1999/45/EC) | |
| Eye Irrit. 2 - H319 | R43 Xi;R36 | |
| Skin Sens. 1 - H317 | | |
| VINYL TOLUENE | | 5-10% |
| CAS number: 25013-15-4 | EC number: 246-562-2 | REACH registration number: 01-2119622074-50-XXXX |
| Classification | Classification (67/548/EEC or 1999/45/EC) | |
| Flam. Liq. 3 - H226 | Xn;R20,R65. Xi;R36/37/38. R10. | |
| Acute Tox. 4 - H332 | | |
| Skin Irrit. 2 - H315 | | |
| Eye Irrit. 2 - H319 | | |
| Asp. Tox. 1 - H304 | | |
| 2,2'-[(4-METHYLPHENYL)IMINO]BIETHANOL | | >0.5 <1.0% |
| CAS number: 3077-12-1 | EC number: 221-359-1 | |
| Classification | Classification (67/548/EEC or 1999/45/EC) | |
| Acute Tox. 4 - H302 | Xn;R22. Xi;R36/38. | |
| Skin Irrit. 2 - H315 | | |
| Eye Dam. 1 - H318 | | |

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

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| | |
|---------------------|---|
| Inhalation | Move affected person to fresh air at once. Get medical attention if any discomfort continues. |
| Ingestion | Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention if any discomfort continues. |
| Skin contact | Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues. |
| Eye contact | Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing. Show this Safety Data Sheet to the medical personnel. |

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

| | |
|---------------------|--|
| Inhalation | Irritation of nose, throat and airway. |
| Ingestion | May cause discomfort if swallowed. |
| Skin contact | May cause skin irritation/eczema. |
| Eye contact | Irritation of eyes and mucous membranes. |

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

| | |
|-----------------------------|---|
| Notes for the doctor | No specific recommendations. If in doubt, get medical attention promptly. |
|-----------------------------|---|

SECTION 5: Firefighting measures

5.1. Extinguishing media

| | |
|-------------------------------------|---|
| Suitable extinguishing media | Extinguish with foam, carbon dioxide or dry powder. |
|-------------------------------------|---|

5.2. Special hazards arising from the substance or mixture

| | |
|--------------------------------------|---|
| Specific hazards | No unusual fire or explosion hazards noted. |
| Hazardous combustion products | Oxides of carbon. |

5.3. Advice for firefighters

| | |
|--|---|
| Protective actions during firefighting | Avoid breathing fire gases or vapours. |
| Special protective equipment for firefighters | Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

| | |
|-----------------------------|---|
| Personal precautions | Wear protective clothing as described in Section 8 of this safety data sheet. |
|-----------------------------|---|

6.2. Environmental precautions

| | |
|----------------------------------|-----------------------------------|
| Environmental precautions | Avoid release to the environment. |
|----------------------------------|-----------------------------------|

6.3. Methods and material for containment and cleaning up

| | |
|--------------------------------|--|
| Methods for cleaning up | Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13. |
|--------------------------------|--|

6.4. Reference to other sections

| | |
|------------------------------------|---|
| Reference to other sections | Wear protective clothing as described in Section 8 of this safety data sheet. For waste disposal, see Section 13. |
|------------------------------------|---|

SECTION 7: Handling and storage

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7.1. Precautions for safe handling

Usage precautions Do not use in confined spaces without adequate ventilation and/or respirator.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly closed original container in a dry, cool and well-ventilated place. Keep away from oxidising materials, heat and flames.

Storage class Chemical storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

VINYL TOLUENE (CAS: 25013-15-4)

DNEL Industry - Inhalation; Long term systemic effects: 37 mg/m³
Industry - Inhalation; Long term local effects: 37 mg/m³
REACH dossier information

PNEC - Fresh water; 0.0498 mg/l
- Marine water; 0.002 mg/l
- Intermittent release; 0.013 mg/l
- STP; 1 mg/l
- Sediment (Freshwater); 0.684 mg/kg
- Sediment (Marinewater); 0.0684 mg/kg
- Soil; 0.133 mg/kg
REACH dossier information

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.

Eye/face protection

The following protection should be worn: Chemical splash goggles.

Hand protection

It is recommended that chemical-resistant, impervious gloves are worn.

Other skin and body protection

Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures

DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

Respiratory protection

No specific recommendations. Respiratory protection may be required if excessive airborne contamination occurs.

Environmental exposure controls

Keep container tightly sealed when not in use.

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SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

| | |
|---|---|
| Appearance | Liquid |
| Colour | Beige. |
| Odour | Aromatic. |
| Odour threshold | Not determined. |
| pH | Not applicable. |
| Melting point | Not determined. |
| Initial boiling point and range | >165°C @ |
| Flash point | 53°C |
| Evaporation rate | Not determined. |
| Evaporation factor | Not determined. |
| Flammability (solid, gas) | Not determined. |
| Upper/lower flammability or explosive limits | Not determined. |
| Other flammability | Not determined. |
| Vapour pressure | 6 hPa @ 20°C |
| Vapour density | Not determined. |
| Relative density | 1.65 - 1.75 @ 20°C |
| Bulk density | Not applicable. |
| Solubility(ies) | Insoluble in water |
| Partition coefficient | Not determined. |
| Auto-ignition temperature | Not determined. |
| Decomposition Temperature | Not determined. |
| Viscosity | > 60 S ISO2431 |
| Explosive properties | No information available. |
| Oxidising properties | Does not meet the criteria for classification as oxidising. |

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity The following materials may react with the product: Organic peroxides/hydroperoxides.

10.2. Chemical stability

Stability Stable at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Does not decompose when used and stored as recommended.

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10.4. Conditions to avoid

Conditions to avoid Avoid excessive heat for prolonged periods of time.

10.5. Incompatible materials

Materials to avoid Organic peroxides/hydroperoxides.

10.6. Hazardous decomposition products

Hazardous decomposition products Oxides of carbon.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - inhalation

ATE inhalation (vapours mg/l) 160.14325542

Skin sensitisation

Skin sensitisation Sensitising.

Inhalation Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Coughing.

Ingestion May cause discomfort if swallowed.

Skin contact May cause sensitisation by skin contact. May cause irritation.

Eye contact Irritating to eyes.

Acute and chronic health hazards Irritating to eyes. May cause sensitisation by skin contact.

Route of entry Skin and/or eye contact.

Medical symptoms Irritation of eyes and mucous membranes. Irritation of nose, throat and airway. Skin irritation.

Medical considerations Skin disorders and allergies.

Toxicological information on ingredients.

2-HYDROXYPROPYL METHACRYLATE

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 5,000

Species Rat

VINYL TOLUENE

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 2,255

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 5

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| | |
|---|--|
| Species | Rabbit |
| <u>Acute toxicity - inhalation</u> | |
| ATE inhalation (vapours mg/l) | 11.0 |
| <u>Carcinogenicity</u> | |
| IARC carcinogenicity | IARC Group 3 Not classifiable as to its carcinogenicity to humans. |

2,2'-(4-METHYLPHENYL)IMINO]BIETHANOL

| | |
|--|-------|
| <u>Acute toxicity - oral</u> | |
| Acute toxicity oral (LD₅₀ mg/kg) | 300 |
| Species | Rat |
| ATE oral (mg/kg) | 500.0 |

SECTION 12: Ecological Information

Ecotoxicity Not regarded as dangerous for the environment.

12.1. Toxicity

Ecological information on ingredients.

VINYL TOLUENE

Acute toxicity - fish LC50, 96 hours, 96 hours: 23.4 mg/l, Pimephales promelas (Fat-head Minnow)

12.2. Persistence and degradability

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not determined.

Ecological information on ingredients.

VINYL TOLUENE

Partition coefficient log Pow: 3.36

12.4. Mobility in soil

Mobility Not applicable.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects Not applicable.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Dispose of waste product or used containers in accordance with local regulations

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Disposal methods Dispose of waste via a licensed waste disposal contractor.

SECTION 14: Transport information

14.1. UN number

UN No. (ICAO) 1866

14.2. UN proper shipping name

Proper shipping name (ADR/RID) RESIN SOLUTION

Proper shipping name (IMDG) RESIN SOLUTION

Proper shipping name (ICAO) RESIN SOLUTION

Proper shipping name (ADN) RESIN SOLUTION

14.3. Transport hazard class(es)

ADR/RID class Exempt C1 2.2.3.1.5

IMDG class Exempt. IMDG Code Clause 2.3.2.5

IMDG subsidiary risk

ICAO class/division 3

ICAO subsidiary risk

Transport labels

14.4. Packing group

ICAO packing group III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

SECTION 15: Regulatory information

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

EU legislation Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

Guidance Workplace Exposure Limits EH40.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Revision comments NOTE: Lines within the margin indicate significant changes from the previous revision.

MIT-Cool part A

| | |
|----------------------------------|--|
| Revision date | 07/05/2015 |
| Revision | 1 |
| SDS number | 20621 |
| Risk phrases in full | R10 Flammable. R20 Harmful by inhalation. R36 Irritating to eyes. R36/37/38 Irritating to eyes, respiratory system and skin. R43 May cause sensitisation by skin contact. R65 Harmful: may cause lung damage if swallowed. R36 Irritating to eyes. |
| Hazard statements in full | H226 Flammable liquid and vapour. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H332 Harmful if inhaled. |

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.



SAFETY DATA SHEET MIT-Cool part B

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name MIT-Cool part B

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

Identified uses Catalyst.

1.3. Details of the supplier of the safety data sheet

Supplier Mungo Befestigungstechnik AG
Bornfeldstrasse 2
CH-4603 Olten
Switzerland
+41 62 206 75 75
+41 62 206 75 85
mungo@mungo.ch

Web www.mungo.ch

1.4. Emergency telephone number

Emergency telephone 145 (24h)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

Physical hazards Not Classified

Health hazards Eye Irrit. 2 - H319 Skin Sens. 1 - H317

Environmental hazards Aquatic Acute 1 - H400 Aquatic Chronic 3 - H412

Classification (67/548/EEC or 1999/45/EC) Xi; R36. N; R50. R52/53, R43

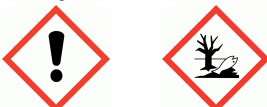
Human health May cause skin disorders if contact is repeated or prolonged. The product is irritating to eyes and skin.

Environmental The product contains a substance which is very toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

Physicochemical Not considered to be a significant hazard due to the small quantities used.

2.2. Label elements

Pictogram



MIT-Cool part B

| | |
|---|---|
| Signal word | Warning |
| Hazard statements | H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H400 Very toxic to aquatic life. H412 Harmful to aquatic life with long lasting effects. |
| Precautionary statements | P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection. P302+P352 IF ON SKIN: Wash with plenty of water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P501 Dispose of contents/container in accordance with national regulations. |
| Contains | BENZOYL PEROXIDE |
| Supplementary precautionary statements | P264 Wash contaminated skin thoroughly after handling. P337+P313 If eye irritation persists: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse. P391 Collect spillage. P411 Store at temperatures not exceeding 25°C/77°F. |

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

| | | |
|---|--|--|
| BENZOYL PEROXIDE | | 10-15% |
| CAS number: 94-36-0 | EC number: 202-327-6 | REACH registration number: 01-2119511472-50-XXXX |
| M factor (Acute) = 10 | | |
| Classification | Classification (67/548/EEC or 1999/45/EC) | |
| Org. Perox. B - H241 | O; R7. E; R3. Xi; R36. N; R50. R43 | |
| Eye Irrit. 2 - H319 | | |
| Skin Sens. 1 - H317 | | |
| Aquatic Acute 1 - H400 | | |
| BENZOIC ACID,NONYL ESTER,BRANCHED AND LINEAR | | 5-10% |
| CAS number: 670241-72-2 | EC number: 447-010-5 | REACH registration number: 01-0000018876-55-XXXX |
| Classification | Classification (67/548/EEC or 1999/45/EC) | |
| Aquatic Chronic 2 - H411 | N; R51/53 | |

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|-------------------|--|
| Inhalation | Move affected person to fresh air at once. Get medical attention if any discomfort continues. |
| Ingestion | Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention if any discomfort continues. |

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Skin contact Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.

Eye contact Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing. Show this Safety Data Sheet to the medical personnel.

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

Ingestion May cause discomfort if swallowed.

Skin contact Causes skin irritation.

Eye contact Irritation of eyes and mucous membranes.

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

Notes for the doctor No specific recommendations. If in doubt, get medical attention promptly.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguish with foam, carbon dioxide or dry powder.

5.2. Special hazards arising from the substance or mixture

Specific hazards No specific precautions due to the small quantities handled.

Hazardous combustion products Oxides of carbon.

5.3. Advice for firefighters

Protective actions during firefighting Avoid breathing fire gases or vapours.

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Environmental precautions Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13.

6.4. Reference to other sections

Reference to other sections Wear protective clothing as described in Section 8 of this safety data sheet. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Keep away from heat, sparks and open flame.

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Advice on general occupational hygiene

Do not eat, drink or smoke when using this product. No specific hygiene procedures recommended but good personal hygiene practices should always be observed when working with chemical products.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions

Keep away from flammable and combustible materials. Store in closed original container at temperatures between 5°C and 25°C.

Storage class

Chemical storage.

7.3. Specific end use(s)

Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

BENZOYL PEROXIDE

Long-term exposure limit (8-hour TWA): WEL 5 mg/m³

WEL = Workplace Exposure Limit

BENZOYL PEROXIDE (CAS: 94-36-0)

DNEL

Industry - Inhalation; Long term : 11.75 mg/m³
 Industry - Dermal; Long term : 6.6 mg/kg/day
 Industry - Oral; Long term : 1.6 mg/kg/day

PNEC

- Sediment (Marinewater); 0.0338 mg/kg
 - Fresh water; 0.000602 mg/l
 - Sediment (Freshwater); 0.338 mg/kg
 - STP; 0.35 mg/l
 - Marine water; 0.000602 mg/l

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation.

Eye/face protection

The following protection should be worn: Chemical splash goggles.

Hand protection

Wear protective gloves made of the following material: Nitrile rubber.

Other skin and body protection

Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures

Wash hands at the end of each work shift and before eating, smoking and using the toilet. DO NOT SMOKE IN WORK AREA!

Respiratory protection

No specific recommendations.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

MIT-Cool part B

| | |
|---|---------------------------|
| Appearance | Liquid |
| Colour | Black. |
| Odour | Characteristic. |
| Odour threshold | Not determined. |
| pH | Not determined. |
| Melting point | Not applicable. |
| Initial boiling point and range | Not applicable. |
| Flash point | Not applicable. |
| Evaporation rate | Not determined. |
| Evaporation factor | Not determined. |
| Flammability (solid, gas) | Not determined. |
| Upper/lower flammability or explosive limits | Not determined. |
| Other flammability | Not determined. |
| Vapour pressure | Not determined. |
| Vapour density | Not determined. |
| Relative density | 1.5 - 1.6 |
| Bulk density | Not applicable. |
| Solubility(ies) | Not determined. |
| Partition coefficient | Not determined. |
| Auto-ignition temperature | Not determined. |
| Decomposition Temperature | 50°C |
| Viscosity | > 60 S ISO2431 |
| Explosive properties | No information available. |
| Oxidising properties | Not determined. |

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity The following materials may react with the product: Acids. Alkalis. Amines. Strong reducing agents.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended. Will decompose at temperatures exceeding 50°C.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Will not polymerise.

10.4. Conditions to avoid

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Conditions to avoid Avoid contact with strong reducing agents. Avoid heat. Avoid contact with acids and alkalis.

10.5. Incompatible materials

Materials to avoid Strong reducing agents. Acids, non-oxidising. Acids - organic. Alkalis - inorganic. Alkalis - organic. Amines.

10.6. Hazardous decomposition products

Hazardous decomposition products Oxides of carbon.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Skin sensitisation

Skin sensitisation Sensitising.

Inhalation No specific health hazards known.

Ingestion May cause discomfort if swallowed.

Skin contact Irritating to skin. May cause sensitisation by skin contact.

Eye contact Irritation of eyes and mucous membranes.

Route of entry Skin and/or eye contact.

Medical symptoms Skin irritation. Irritation of eyes and mucous membranes.

Medical considerations No information available.

Toxicological information on ingredients.

BENZOYL PEROXIDE

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 950

Species Rat

Carcinogenicity

IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.

SECTION 12: Ecological Information

12.1. Toxicity

Ecological information on ingredients.

BENZOYL PEROXIDE

Acute aquatic toxicity

LE(C)₅₀ 0.01 < L(E)C50 ≤ 0.1

M factor (Acute) 10

Acute toxicity - fish LC50, 96 hours, 96 hours: 0.06 mg/l, Onchorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours, 48 hours: 0.11 mg/l, Daphnia magna

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Acute toxicity - aquatic plants EC₅₀, 72 hours, 72 hours: 0.07 mg/l, Selenastrum capricornutum

BENZOIC ACID,NONYL ESTER,BRANCHED AND LINEAR

Acute toxicity - fish LC₅₀, 24 hours: > 1.23 mg/l, Cyprinus carpio (Common carp)
 LC₅₀, 48 hours: > 1.23 mg/l, Cyprinus carpio (Common carp)
 LC₅₀, 72 hours: > 1.23 mg/l, Cyprinus carpio (Common carp)
 EC₅₀, 96 hours: > 1.23 mg/l, Cyprinus carpio (Common carp)
 EC₁₀₀, 96 hours: > 1.23 mg/l, Cyprinus carpio (Common carp)
 NOEC, 96 hours: > 1.23 mg/l, Cyprinus carpio (Common carp)

Acute toxicity - aquatic invertebrates EC₅₀, 24 hours: > 2.2 mg/l, Daphnia magna
 EC₅₀, 48 hours: > 2.2 mg/l, Daphnia magna
 NOEC, 48 hours: > 2.2 mg/l, Daphnia magna

Acute toxicity - microorganisms IC₅₀, 3 hours: > 1000 mg/l, Activated sludge
 NOEC, 3 hours: > 1000 mg/l, Activated sludge

12.2. Persistence and degradability

Persistence and degradability There are no data on the degradability of this product.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not determined.

12.4. Mobility in soil

Mobility Mobile. The product is partly miscible with water and may spread in the aquatic environment.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Dispose of waste product or used containers in accordance with local regulations

Disposal methods Dispose of waste via a licensed waste disposal contractor.

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID) 3082

UN No. (IMDG) 3082

UN No. (ICAO) 3082

UN No. (ADN) 3082

14.2. UN proper shipping name

Proper shipping name (ADR/RID) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

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Proper shipping name (IMDG) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Proper shipping name (ICAO) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Proper shipping name (ADN) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

14.3. Transport hazard class(es)

"LQ" <5 Ltr / <5 Kg

ADR/RID class "LQ" S P 375

ADR/RID classification code M6

ADR/RID label 9

IMDG class "LQ" c 2.10.2.7

ICAO class/division 9

ADN class 9

Transport labels



14.4. Packing group

ADR/RID packing group III

IMDG packing group III

ADN packing group III

ICAO packing group III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



14.6. Special precautions for user

EmS F-A, S-F

ADR transport category 3

Emergency Action Code •3Z

Hazard Identification Number (ADR/RID) 90

Tunnel restriction code (E)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

SECTION 15: Regulatory information

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

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|-----------------------|--|
| EU legislation | Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). |
| Guidance | Workplace Exposure Limits EH40. |

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

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| Revision comments | NOTE: Lines within the margin indicate significant changes from the previous revision. |
| Revision date | 07/05/2015 |
| Revision | 1 |
| SDS number | 20622 |
| Risk phrases in full | R3 Extreme risk of explosion by shock, friction, fire or other sources of ignition. R7 May cause fire. R36 Irritating to eyes. R43 May cause sensitisation by skin contact. R50 Very toxic to aquatic organisms. R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| Hazard statements in full | H241 Heating may cause a fire or explosion. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H400 Very toxic to aquatic life. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects. |

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.