



SAFETY DATA SHEET MA Green Plus comp A

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

1.1. Product identifier

Product name MA Green Plus comp 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 G&B Fissaggi Srl
Corso Savona 22
10029, Villastellone (TO)
Italy
+39 011 96 19 433
+39 011 96 19 382/ 639

Web www.gebfissaggi.com

Contact person info@gebfissaggi.com

1.4. Emergency telephone number

Emergency telephone +39 011 96 19 433 (8.30 - 12.30 /13.30 - 17.30)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Flam. Liq. 3 - H226
Health hazards Skin Irrit. 2 - H315 Eye Irrit. 2 - H319
Environmental hazards Aquatic Chronic 3 - H412

2.2. Label elements

Pictogram



Signal word Warning

Hazard statements H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects.

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| | |
|---|--|
| Precautionary statements | <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P273 Avoid release to the environment.</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>P332+P313 If skin irritation occurs: Get medical advice/ attention.</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> |
| Supplementary precautionary statements | <p>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P302+P352 IF ON SKIN: Wash with plenty of water.</p> <p>P337+P313 If eye irritation persists: Get medical advice/ attention.</p> <p>P362+P364 Take off contaminated clothing and wash it before reuse.</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

| | |
|------------------------|---|
| VINYL TOLUENE | 10-20% |
| CAS number: 25013-15-4 | EC number: 246-562-2 |
| | REACH registration number: 01-2119622074-50 |

Classification

Flam. Liq. 3 - H226
 Acute Tox. 4 - H332
 Skin Irrit. 2 - H315
 Eye Irrit. 2 - H319
 Asp. Tox. 1 - H304
 Aquatic Chronic 2 - H411

| | |
|-------------------------|---|
| TITANIUM DIOXIDE | >0.5 <1.0% |
| CAS number: 13463-67-7 | EC number: 236-675-5 |
| | REACH registration number: 01-2119489379-17 |

Classification

Not Classified

Classification (67/548/EEC or 1999/45/EC)

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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. |
| 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. |

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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

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)

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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

TITANIUM DIOXIDE

Long-term exposure limit (8-hour TWA): WEL 4 mg/m³ respirable dust

Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ inhalable dust

WEL = Workplace Exposure Limit

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

TITANIUM DIOXIDE (CAS: 13463-67-7)

DNEL Industry - Inhalation; Long term systemic effects: 10 mg/m³
REACH dossier information

PNEC

- Fresh water; 0.127 mg/l
- Marine water; 1.0 mg/l
- Intermittent release; 0.61 mg/l
- STP; 100 mg/l
- Sediment (Freshwater); 1000 mg/kg
- Sediment (Marinewater); 100 mg/kg
- Soil; 100 mg/kg

REACH dossier information

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

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.

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| | |
|--|---|
| Hygiene measures | DO NOT SMOKE IN WORK AREA! Wash 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. |

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 ; Kinematic viscosity > 20.5 mm ² /s. |
| 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

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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.

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) 79.09

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 Causes skin irritation.

Eye contact Irritating to eyes.

Acute and chronic health hazards Irritating to skin. Irritating to eyes.

Route of exposure 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.

VINYL TOLUENE

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 2,255.0

Species Rat

ATE oral (mg/kg) 2,255.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 4,500.0

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| | |
|---|--|
| Species | Rat |
| ATE dermal (mg/kg) | 4,500.0 |
| <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. |

SECTION 12: Ecological Information

Ecotoxicity Not regarded as dangerous for the environment.

12.1. Toxicity

Ecological information on ingredients.

VINYL TOLUENE

Acute aquatic toxicity

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

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 1.3 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 72 hours: 2.6 mg/l, Selenastrum capricornutum

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

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

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Waste class The waste code classification is to be carried out according to the European Waste Catalogue (EWC).

SECTION 14: Transport information

14.1. UN number

| | |
|------------------|------|
| UN No. (ADR/RID) | 1866 |
| UN No. (IMDG) | 1866 |
| UN No. (ICAO) | 1866 |
| UN No. (ADN) | 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 | 3 |
| ADR/RID classification code | F1 |
| ADR/RID label | 3 |
| IMDG class | 3 |
| ICAO class/division | 3 |
| ADN class | 3 |

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
No.

14.6. Special precautions for user

| | |
|------------------------|----------|
| EmS | F-E, S-E |
| ADR transport category | 3 |
| Emergency Action Code | •3Y |

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Hazard Identification Number 30
(ADR/RID)

Tunnel restriction code (D/E)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

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

EU legislation (EU) No 2015/830

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.

Revision date 09/05/2018

Version number 3.000

Supersedes date 07/12/2017

SDS number 20771

Hazard statements in full H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
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.



SAFETY DATA SHEET MA Green Plus comp B

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

1.1. Product identifier

Product name MA Green Plus comp 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 G&B Fissaggi Srl
Corso Savona 22
10029, Villastellone (TO)
Italy
+39 011 96 19 433
+39 011 96 19 382/ 639

Web www.gebfissaggi.com

Contact person info@gebfissaggi.com

1.4. Emergency telephone number

Emergency telephone +39 011 96 19 433 (8.30 - 12.30 /13.30 - 17.30)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

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

Environmental hazards Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

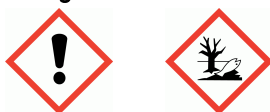
Human health May cause skin disorders if contact is repeated or prolonged. The product is irritating to eyes and skin.

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



Signal word Warning

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| | |
|---|--|
| Hazard statements | H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H410 Very toxic 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 °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 |
| M factor (Acute) = 10 | M factor (Chronic) = 10 |
| Classification | |
| Org. Perox. B - H241 | |
| Eye Irrit. 2 - H319 | |
| Skin Sens. 1 - H317 | |
| Aquatic Acute 1 - H400 | |
| Aquatic Chronic 1 - H410 | |
| 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 |
| Classification | |
| Aquatic Chronic 2 - H411 | |
| ZINC DISTEARATE | 1-5% |
| CAS number: 557-05-1 | EC number: 209-151-9 |
| | REACH registration number: 01-2119982400-42 |
| M factor (Acute) = 1 | |
| Classification | Classification (67/548/EEC or 1999/45/EC) |
| Aquatic Acute 1 - H400 | - |

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

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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. |
| 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. |
|------------------------------------|---|

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

| | |
|---|---|
| Usage precautions | Keep away from heat, sparks and open flame. |
| 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/m ³ Industry - Oral; Long term : 1.6 mg/kg/day Industry - Dermal; Long term : 6.6 mg/kg/day |
| PNEC | - Fresh water; 0.000602 mg/l - STP; 0.35 mg/l - Sediment (Marinewater); 0.0338 mg/kg - Sediment (Freshwater); 0.338 mg/kg - Marine water; 0.0000602 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 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.

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SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

| | |
|---|---------------------------|
| 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

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Possibility of hazardous reactions Will not polymerise.

10.4. Conditions to avoid

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 exposure 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

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: 0.06 mg/l, Oncorhynchus mykiss (Rainbow trout)

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

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

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Chronic aquatic toxicity

M factor (Chronic) 10

BENZOIC ACID,NONYL ESTER,BRANCHED AND LINEAR

Acute aquatic toxicity

| | |
|---|--|
| Acute toxicity - fish | LC ₅₀ , 24 hours: > 1.23 mg/l, Cyprinus carpio (Common carp) LC ₅₀ , 48 hours: > 1.23 mg/l, Cyprinus carpio (Common carp) LC ₅₀ , 72 hours: > 1.23 mg/l, Cyprinus carpio (Common carp) EC ₅₀ , 96 hours: > 1.23 mg/l, Cyprinus carpio (Common carp) EC ₁₀₀ , 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 | EC ₅₀ , 24 hours: > 2.2 mg/l, Daphnia magna EC ₅₀ , 48 hours: > 2.2 mg/l, Daphnia magna NOEC, 48 hours: > 2.2 mg/l, Daphnia magna |
| Acute toxicity - microorganisms | IC ₅₀ , 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. |
| Waste class | The waste code classification is to be carried out according to the European Waste Catalogue (EWC). |

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

MA Green Plus comp B

| | |
|---------------------------------------|---|
| Proper shipping name (ADR/RID) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS BENZOYL PEROXIDE, BENZOIC ACID, NONYL ESTER, BRANCHED AND LINEAR) |
| Proper shipping name (IMDG) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS BENZOYL PEROXIDE, BENZOIC ACID, NONYL ESTER, BRANCHED AND LINEAR) |
| Proper shipping name (ICAO) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS BENZOYL PEROXIDE, BENZOIC ACID, NONYL ESTER, BRANCHED AND LINEAR) |
| Proper shipping name (ADN) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS BENZOYL PEROXIDE, BENZOIC ACID, NONYL ESTER, BRANCHED AND LINEAR) |

14.3. Transport hazard class(es)

| | |
|------------------------------------|----|
| ADR/RID class | 9 |
| ADR/RID classification code | M6 |
| ADR/RID label | 9 |
| IMDG class | 9 |
| 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 MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

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SECTION 15: Regulatory information

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

EU legislation (EU) No 2015/830

Guidance Workplace Exposure Limits EH40.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

Inventories

US - TSCA

All the ingredients are listed or exempt.

US - TSCA 12(b) Export Notification

None of the ingredients are listed or exempt.

SECTION 16: Other information

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

Revision date 05/12/2017

Version number 2.000

SDS number 20770

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.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic 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.