

Safety Data Sheet

MACROBASE BLUE BLACK

Safety Data Sheet dated 15/01/2024 version 4



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

1.1. Product identifier

Mixture identification:

Trade name: MACROBASE BLUE BLACK

Trade code: L0MC0084

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

Recommended use: Coatings and paints, thinners, paint removers

Coloured concentrated base

Fluid pigmented dispersion

Professional uses

Uses advised against: N.A.

1.3. Details of the supplier of the safety data sheet

Company: Lechler SpA - Via Cecilio, 17 - 22100 Como - CO - Italy

Telephone: +39031586111

First Email: safety@lechler.eu

1.4. Emergency telephone number

UNITED KINGDOM: Emergency Number 0044 1606738600 - This telephone number is available during office hours only (8.45-16.45).

SECTION 2: Hazards identification



2.1. Classification of the substance or mixture

Regulation (EC) n. 1272/2008 (CLP)

Flam. Liq. 3 Flammable liquid and vapour.

STOT SE 3 May cause drowsiness or dizziness.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Regulation (EC) No 1272/2008 (CLP):

Hazard pictograms and Signal Word



Warning

Hazard statements

H226 Flammable liquid and vapour.

H336 May cause drowsiness or dizziness.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P312 Call a POISON CENTER/doctor if you feel unwell.

P370+P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/ container to an approved waste disposal plant.

Special Provisions:

EUH208 Contains 2-hydroxyethyl methacrylate. May produce an allergic reaction.
 EUH066 Repeated exposure may cause skin dryness or cracking.

Contains

n-butyl acetate
 heptan-2-one

Special provisions according to Annex XVII of REACH and subsequent amendments:

None.

2.3. Other hazards

Results of PBT and vPvB assessment Not a PBT, vPvB substance as per the criteria of the REACH Regulation.
 Endocrine disrupting properties-Toxicity The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. Endocrine disrupting properties-Ecotoxicity The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Other Hazards: No other hazards

SECTION 3: Composition/information on ingredients**3.1. Substances**

N.A.

3.2. Mixtures

Mixture identification: MACROBASE BLUE BLACK

Hazardous components within the meaning of the CLP regulation and related classification:

| Qty | Name | Ident. Numb. | Classification | Registration Number |
|----------------|---|--|---|---------------------|
| ≥20 - ≤25 % | n-butyl acetate | CAS:123-86-4 EC:204-658-1 Index:607-025-00-1 | Flam. Liq. 3, H226; STOT SE 3, H336, EUH066 | 01-2119485493-29 |
| ≥7 - ≤10 % | heptan-2-one | CAS:110-43-0 EC:203-767-1 Index:606-024-00-3 | Flam. Liq. 3, H226; Acute Tox. 4, H302; Acute Tox. 4, H332; STOT SE 3, H336 | 01-2119902391-49 |
| ≥3 - ≤5 % | monoalkyl or monoaryl or monalkylaryl esters of methacrylic acid | CAS:7534-94-3 EC:231-403-1 Index:607-134-00-4 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 3, H412 STOT SE 3, H335 Specific Concentration Limits: C ≥ 10%: STOT SE 3 H335 | 01-2119886505-27 |
| ≥2.5 - ≤3 % | Carbon black | CAS:1333-86-4 EC:215-609-9 | Not classified as hazardous | 01-2119384822-32 |
| ≥0.5 - ≤1 % | 2-methoxy-1-methylethyl acetate | CAS:108-65-6 EC:203-603-9 Index:607-195-00-7 | STOT SE 3, H336; Flam. Liq. 3, H226 | 01-2119475791-29 |
| ≥0.25 - ≤0.3 % | 2-ethylhexanoic acid and its salts, with the exception of those specified elsewhere in this Annex | CAS:85203-81-2 EC:286-272-3 Index:607-230-00-6 | Repr. 1B, H360D; Eye Irrit. 2, H319; Aquatic Chronic 3, H412 | 01-2119979093-30 |
| ≥0.1 - ≤0.25 % | 2-hydroxyethyl methacrylate | CAS:868-77-9 EC:212-782-2 Index:607-124-00-X | Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 | 01-2119490169-29 |
| < 0,1 % | (2-methoxymethylethoxy)propanol | CAS:34590-94-8 EC:252-104-2 | Substance with a Union workplace exposure limit. | 01-2119450011-60 |

Substances in nanoform:

| | | | |
|--------------|-------------------------------|-----------------------------|---|
| Carbon black | CAS:1333-86-4 EC:215-609-9 | Particle size distribution: | D10: ≥ 18 nm ≤ 61 nm D50: ≥ 36 nm ≤ 101 nm D90: ≥ 66 nm ≤ 173 nm (Measurement technique: STEM) |
|--------------|-------------------------------|-----------------------------|---|

| | |
|----------------------------|--|
| Shape and aspect ratio: | Spheres, (:1): < 3 (Measurement technique: TEM) |
| Crystallinity: | Amorphous: = 100% - (Measurement technique: X-ray Diffraction (XRD)) |
| Surface Treatment - Agent: | (No) |
| Specific surface area: | >= 21m ² /g <= 1200m ² /g - (Measurement technique: Brunauer, Emmett and Teller (BET) method using Nitrogen) |

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

In case of eyes contact:

Wash immediately with water.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and label hazardous.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

N.A.

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

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non emergency personnel:

Wear personal protection equipment.

Remove all sources of ignition.

Remove persons to safety.

See protective measures under point 7 and 8.

For emergency responders:

Wear personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

Advice on general occupational hygiene:

7.2. Conditions for safe storage, including any incompatibilities

Always keep in a well ventilated place.

Store at below 20 °C. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.

Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.

7.3. Specific end use(s)

Recommendation(s)

None in particular

Industrial sector specific solutions:

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Community Occupational Exposure Limits (OEL)

| | OEL Type | Country | Occupational Exposure Limit |
|----------------------------------|----------|--|--|
| n-butyl acetate CAS: 123-86-4 | EH40 | UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND | Long Term: 724 mg/m3 - 150 ppm; Short Term: 966 mg/m3 - 200 ppm |
| | EU | | Long Term: 241 mg/m3 - 50 ppm; Short Term: 723 mg/m3 - 150 ppm Behaviour Indicative 2019/1831/EU |
| | ACGIH | | Long Term: 50 ppm; Short Term: 150 ppm Eye and URT irr |
| heptan-2-one CAS: 110-43-0 | ACGIH | | Long Term: 50 ppm Eye and skin irr |
| | EH40 | UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND | Long Term: 237 mg/m3 - 50 ppm; Short Term: 475 mg/m3 - 100 ppm Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to |
| | EU | | Long Term: 238 mg/m3 - 50 ppm; Short Term: 475 mg/m3 - 100 ppm Behaviour Indicative 2000/39/EC |
| Carbon black CAS: 1333-86-4 | EU | | Identifies the possibility of significant uptake through the skin |
| | EH40 | UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND | Long Term: 3,5 mg/m3; Short Term: 7 mg/m3 |

| | | | |
|---|-------|--|--|
| | ACGIH | | Long Term: 3 mg/m ³ I, A3 - Bronchitis |
| 2-methoxy-1-methylethyl acetate CAS: 108-65-6 | EU | | Long Term: 275 mg/m ³ - 50 ppm; Short Term: 550 mg/m ³ - 100 ppm Behaviour Indicative 2000/39/EC |
| | EU | | Identifies the possibility of significant uptake through the skin |
| | EH40 | UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND | Long Term: 274 mg/m ³ - 50 ppm; Short Term: 548 mg/m ³ - 100 ppm Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to |
| (2-methoxymethylethoxy) propanol CAS: 34590-94-8 | EU | | Long Term: 308 mg/m ³ - 50 ppm Behaviour Indicative 2000/39/EC |
| | EU | | Identifies the possibility of significant uptake through the skin |
| | EH40 | UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND | Long Term: 308 mg/m ³ - 50 ppm Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used. |
| | ACGIH | | Long Term: 50 ppm Liver & CNS eff |

Predicted No Effect Concentration (PNEC) values

| | |
|--|--|
| n-butyl acetate CAS: 123-86-4 | Exposure Route: Fresh Water; PNEC Limit: 0,18 mg/l |
| | Exposure Route: Intermittent releases (fresh water); PNEC Limit: 0,36 mg/l |
| | Exposure Route: Marine water; PNEC Limit: 0,01 mg/l |
| | Exposure Route: Freshwater sediments; PNEC Limit: 0,98 mg/kg |
| | Exposure Route: Marine water sediments; PNEC Limit: 0,09 mg/kg |
| | Exposure Route: Soil; PNEC Limit: 0,09 mg/kg |
| | Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 35,6 mg/l |
| heptan-2-one CAS: 110-43-0 | Exposure Route: Fresh Water; PNEC Limit: 0,098 mg/l |
| | Exposure Route: Marine water; PNEC Limit: 0,009 mg/l |
| | Exposure Route: Intermittent releases (fresh water); PNEC Limit: 982 mg/l |
| | Exposure Route: Freshwater sediments; PNEC Limit: 1,89 mg/kg |
| | Exposure Route: Marine water sediments; PNEC Limit: 0,189 mg/kg |
| | Exposure Route: Soil; PNEC Limit: 0,321 mg/kg |
| | Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 12,5 mg/l |
| 2-methoxy-1-methylethyl acetate CAS: 108-65-6 | Exposure Route: Fresh Water; PNEC Limit: 0,635 mg/kg |
| | Exposure Route: Intermittent releases (fresh water); PNEC Limit: 6,35 mg/l |
| | Exposure Route: Marine water; PNEC Limit: 0,064 mg/kg |
| | Exposure Route: Freshwater sediments; PNEC Limit: 3,29 mg/kg |
| | Exposure Route: Marine water sediments; PNEC Limit: 0,329 mg/kg |
| | Exposure Route: Soil; PNEC Limit: 0,29 mg/kg |
| | Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 100 mg/l |
| 2-hydroxyethyl methacrylate CAS: 868-77-9 | Exposure Route: Fresh Water; PNEC Limit: 0,482 mg/l |
| | Exposure Route: Marine water; PNEC Limit: 0,482 mg/l |
| | Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 10 mg/l |
| | Exposure Route: Intermittent releases (fresh water); PNEC Limit: 1 mg/l |
| | Exposure Route: Freshwater sediments; PNEC Limit: 3,79 mg/kg |

Exposure Route: Marine water sediments; PNEC Limit: 3,79 mg/kg

Exposure Route: Soil; PNEC Limit: 0,476 mg/kg

Exposure Route: Fresh Water; PNEC Limit: 19 mg/l

(2-methoxymethylethoxy)
propanol
CAS: 34590-94-8

Exposure Route: Intermittent releases (fresh water); PNEC Limit: 190 mg/l

Exposure Route: Marine water; PNEC Limit: 1,9 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 70,2 mg/kg

Exposure Route: Marine water sediments; PNEC Limit: 7,02 mg/kg

Exposure Route: Soil; PNEC Limit: 2,74 mg/kg

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 4168 mg/l

Derived No Effect Level (DNEL) values

n-butyl acetate
CAS: 123-86-4

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects
Worker Industry: 300 mg/m³

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects
Worker Industry: 600 mg/m³

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects
Worker Industry: 300 mg/m³

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects
Worker Industry: 600 mg/m³

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects
Worker Industry: 11 mg/kg dry weight (d.w.)

Exposure Route: Human Dermal; Exposure Frequency: Short Term, systemic effects
Worker Industry: 11 mg/kg dry weight (d.w.)

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects
Consumer: 35,7 mg/m³

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects
Consumer: 300 mg/m³

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects
Consumer: 35,7 mg/m³

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects
Consumer: 300 mg/m³

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects
Consumer: 6 mg/kg dry weight (d.w.)

Exposure Route: Human Dermal; Exposure Frequency: Short Term, systemic effects
Consumer: 6 mg/kg dry weight (d.w.)

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects
Consumer: 2 mg/kg dry weight (d.w.)

Exposure Route: Human Oral; Exposure Frequency: Short Term, systemic effects
Consumer: 2 mg/kg dry weight (d.w.)

heptan-2-one
CAS: 110-43-0

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects
Worker Professional: 1516 mg/m³

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects
Worker Professional: 54,27 mg/kg dry weight (d.w.)

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects
Worker Professional: 394,25 mg/m³

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects
Consumer: 23,32 mg/kg dry weight (d.w.)

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects
Consumer: 84,31 mg/m³

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects
Consumer: 23,32 mg/kg dry weight (d.w.)

| | |
|---|--|
| 2-methoxy-1-methylethyl acetate CAS: 108-65-6 | <p>Exposure Route: Human Inhalation; Exposure Frequency: Short Term (acute) Consumer: 33 mg/m³</p> <p>Exposure Route: Oral; Exposure Frequency: Long Term, systemic effects Consumer: 36 mg/kg</p> <p>Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects Consumer: 320 mg/kg</p> <p>Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Consumer: 33 mg/m³</p> <p>Exposure Route: Human Inhalation; Exposure Frequency: Short Term (acute) Worker Professional: 550 mg/m³</p> <p>Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects Worker Professional: 796 mg/kg</p> <p>Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Worker Professional: 275 mg/m³</p> |
| 2-hydroxyethyl methacrylate CAS: 868-77-9 | <p>Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects Worker Professional: 1,3 mg/kg</p> <p>Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Worker Professional: 4,9 mg/m³</p> <p>Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects Consumer: 0,83 mg/kg</p> <p>Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Consumer: 2,9 mg/m³</p> <p>Exposure Route: Oral; Exposure Frequency: Long Term, systemic effects Consumer: 0,83 mg/kg</p> |
| (2-methoxymethylethoxy) propanol CAS: 34590-94-8 | <p>Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Consumer: 37,2 mg/m³</p> <p>Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects</p> <p>Exposure Route: Oral; Exposure Frequency: Long Term, systemic effects</p> <p>Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Worker Professional: 308 mg/m³</p> <p>Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects</p> |

8.2. Exposure controls

Eye protection:

Not needed for normal use. Anyway, operate according good working practices.

Protection for skin:

No special precaution must be adopted for normal use.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Use adequate protective respiratory equipment.

Thermal Hazards:

N.A.

Environmental exposure controls:

N.A.

Hygienic and Technical measures

N.A.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid

Colour: Black

Odour: N.A.

pH: Not Relevant

Kinematic viscosity: > 20,5 mm²/sec (40 °C)

Melting point/freezing point: N.A.
Boiling point or initial boiling point and boiling range: N.A.
Flash point: 27 °C (81 °F)
Lower and upper explosion limit: N.A.
Relative vapour density: N.A.
Vapour pressure: N.A.
Density and/or relative density: 1.03 g/cm³
Solubility in water: N.A.
Solubility in oil: N.A.
Partition coefficient n-octanol/water (log value): N.A.
Auto-ignition temperature: N.A.
Decomposition temperature: N.A.
Flammability: The product is classified Flam. Liq. 3 H226
Kinematic viscosity m²/s (40°C) > 20,5 mm²/sec (40 °C)
Viscosity: = 59.00 s - Method: ISO/DIN 2431 84 - Section: 6.00 mm

Particle characteristics:

Particle size: N.A.
Nanoforms: See Nanoform information in Section 3.

9.2. Other information

Evaporation rate: N.A.
Miscibility: N.A.
Conductivity: N.A.
No other relevant information

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Data not available.

10.3. Possibility of hazardous reactions

None.

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

Avoid contact with combustible materials. The product could catch fire.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicological Information of the Preparation

| | |
|--------------------------------------|--|
| a) acute toxicity | Not classified Based on available data, the classification criteria are not met ATEmix - Oral : 18926 mg/kg bw ATEmix - Inhalation (Vapours) : 197.658 mg/l |
| b) skin corrosion/irritation | Not classified Based on available data, the classification criteria are not met |
| c) serious eye damage/irritation | Not classified Based on available data, the classification criteria are not met |
| d) respiratory or skin sensitisation | Not classified Based on available data, the classification criteria are not met |
| e) germ cell mutagenicity | Not classified Based on available data, the classification criteria are not met |
| f) carcinogenicity | Not classified Based on available data, the classification criteria are not met |
| g) reproductive toxicity | Not classified Based on available data, the classification criteria are not met |
| h) STOT-single exposure | The product is classified: STOT SE 3(H336) |

- i) STOT-repeated exposure Not classified
Based on available data, the classification criteria are not met
- j) aspiration hazard Not classified
Based on available data, the classification criteria are not met

Toxicological information on main components of the mixture:

| | | | |
|----------------------------------|-------------------|---|--|
| n-butyl acetate | a) acute toxicity | LD50 Oral Rat = 10760 mg/kg LC50 Inhalation > 20, mg/l 4h LD50 Skin Rabbit > 14112, mg/kg | OECD Test Guideline 423 OECD Test Guideline 402 |
| heptan-2-one | a) acute toxicity | LD50 Oral Rat = 1600, mg/kg LC50 Inhalation Vapour Rat > 16,7 mg/l 4h | |
| Carbon black | a) acute toxicity | LD50 Oral Rat > 8000, mg/kg | |
| 2-methoxy-1-methylethyl acetate | a) acute toxicity | LD50 Oral Rat > 5000 mg/kg LC0 Inhalation Rat > 2000 Ppm 3h LD50 Skin Rabbit > 5000 mg/kg | |
| (2-methoxymethylethoxy) propanol | a) acute toxicity | LD50 Oral Rat = 5350 mg/kg LD50 Skin Rabbit > 2000 mg/kg | |

11.2. Information on other hazards

Endocrine disrupting properties:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

List of Eco-Toxicological properties of the product

- Not classified for environmental hazards.
- No data available for the product

List of Eco-Toxicological properties of the components

| Component | Ident. Numb. | Ecotox Data |
|------------------|---|--|
| n-butyl acetate | CAS: 123-86-4 - EINECS: 204- 658-1 - INDEX: 607-025-00-1 | a) Aquatic acute toxicity : LC50 Fish Pimephales promelas (fathead minnow) = 18 mg/L 96 H OECD Test Guideline 203 a) Aquatic acute toxicity : EC50 Invertebrates Daphnia magna (Water flea) = 44 mg/L 48 H OECD Test Guideline 202 e) Plant toxicity : EC50 Algae Selenastrum capricornutum (green algae) = 397 mg/L 72 H OECD Test Guideline 201 c) Bacteria toxicity : IC50 Microorganisms Tetrahymena pyriformis = 356 mg/L 40 H |
| heptan-2-one | CAS: 110-43-0 - EINECS: 203- 767-1 - INDEX: 606-024-00-3 | a) Aquatic acute toxicity : LC50 Fish Pimephales promelas (fathead minnow) = 131 mg/L 96h a) Aquatic acute toxicity : ErC50 Algae Selenastrum capricornutum (green algae) = 98,2 mg/L 72h |

| | | |
|---------------------------------|---|---|
| Carbon black | CAS: 1333-86-4 - EINECS: 215-609-9 | a) Aquatic acute toxicity : LC10 Fish Brachydanio rerio (zebrafish) = 1000 mg/L 96h a) Aquatic acute toxicity : EC50 Invertebrates Daphnia magna (Water flea) > 5600 mg/L 48h a) Aquatic acute toxicity : EC50 Algae Desmodesmus subspicatus (green algae) > 10000 mg/L 72h |
| 2-methoxy-1-methylethyl acetate | CAS: 108-65-6 - EINECS: 203-603-9 - INDEX: 607-195-00-7 | a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss (rainbow trout) 100 mg/L 96 H a) Aquatic acute toxicity : EC50 Invertebrates Daphnia magna (Water flea) > 500 mg/L 48 H e) Plant toxicity : EC50 Algae Selenastrum capricornutum (green algae) > 1000 mg/L 96 H b) Aquatic chronic toxicity : NOEC Fish Oryzias latipes (Japanese medaka) = 47,5 mg/L 14 D b) Aquatic chronic toxicity : NOEC Invertebrates Daphnia magna (Water flea) >= 100 mg/L 21 D e) Plant toxicity : NOEC Algae Selenastrum capricornutum (green algae) >= 1000 mg/L 96 H |
| (2-methoxymethylethoxy)propanol | CAS: 34590-94-8 - EINECS: 252-104-2 | a) Aquatic acute toxicity : LC50 Fish > 10000 mg/L 96 H a) Aquatic acute toxicity : EC50 Invertebrates Daphnia (water flea) > 85000 mg/L 48 H |

12.2. Persistence and degradability

N.A.

12.3. Bioaccumulative potential

N.A.

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

No PBT or vPvB substances present in concentration >= 0.1%

12.6. Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7. Other adverse effects

N.A.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

SECTION 14: Transport information

14.1. UN number or ID number

1263

14.2. UN proper shipping name

ADR-Shipping Name: PAINT

IATA-Technical name: PAINT

IMDG-Technical name: PAINT

14.3. Transport hazard class(es)

ADR-Class: 3

IATA-Class: 3

IMDG-Class: 3

14.4. Packing group

ADR-Packing Group: III

IATA-Packing group: III

IMDG-Packing group: III

14.5. Environmental hazards

Toxic ingredients quantity: 0.00

Very toxic ingredients quantity: 0.00

Marine pollutant: No

Environmental Pollutant: No

IMDG-EMS: F-E, S-E

14.6. Special precautions for user

Road and Rail (ADR-RID):

ADR-Label: 3

ADR - Hazard identification number: -

ADR-Special Provisions: 163 367 650

ADR-Transport category (Tunnel restriction code): 3 (E)

Air (IATA):

IATA-Passenger Aircraft: 355

IATA-Cargo Aircraft: 366

IATA-Label: 3

IATA-Subsidiary hazards: -

IATA-Erg: 3L

IATA-Special Provisions: A3 A72 A192

Sea (IMDG):

IMDG-Stowage Code: Category A

IMDG-Stowage Note: -

IMDG-Subsidiary hazards: -

IMDG-Special Provisions: 163 223 367 955

14.7. Maritime transport in bulk according to IMO instruments

N.A.

SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Regulation (EU) n. 2017/776 (ATP 10 CLP)

Regulation (EU) n. 2018/669 (ATP 11 CLP)

Regulation (EU) n. 2018/1480 (ATP 13 CLP)

Regulation (EU) n. 2019/521 (ATP 12 CLP)

Regulation (EU) n. 2020/217 (ATP 14 CLP)

Regulation (EU) n. 2020/1182 (ATP 15 CLP)

Regulation (EU) n. 2021/643 (ATP 16 CLP)

Regulation (EU) n. 2021/849 (ATP 17 CLP)

Regulation (EU) n. 2022/692 (ATP 18 CLP)

Regulation (EU) n. 2020/878

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product: 3, 40

Restrictions related to the substances contained: 30, 75

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1 **Lower-tier threshold (tonnes)** **Upper-tier threshold (tonnes)**

Product belongs to category: P5c 5000 50000

Regulation (EU) No 649/2012 (PIC regulation)

No substances listed

German Water Hazard Class.

2: Hazard to waters

German Lagerklasse according to TRGS 510:

LGK 3

SVHC Substances:

No SVHC substances present in concentration >= 0.1%

Dir. 2010/75/EC (VOC directive)

Volatile Organic compounds - VOCs = 34.16 %

Volatile Organic compounds - VOCs = 351.88 g/L

Estimated Total Content of Water 0.00 %

Estimated Total Solid Content 65.84 %

Classification according to VbF

Classification according to VbF Exempt

Mal-Code (Denmark)

| Mal-Code (Denmark) | Mal Factor | Unit of Measure | Revision Status / Number | Regulatory Base |
|--------------------|------------|-----------------|--------------------------|---------------------------------------|
| 2 - 3 | 737 | m3 air/10 g | 1993 | Administrative determined MAL-Factors |

Biocides

REGULATION (EC) No 528/2012

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: Other information

| Code | Description |
|--------|---|
| EUH066 | Repeated exposure may cause skin dryness or cracking. |
| H226 | Flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H360D | May damage the unborn child. |
| H412 | Harmful to aquatic life with long lasting effects. |

| Code | Hazard class and hazard category | Description |
|-------------|----------------------------------|--|
| 2.6/3 | Flam. Liq. 3 | Flammable liquid, Category 3 |
| 3.1/4/Inhal | Acute Tox. 4 | Acute toxicity (inhalation), Category 4 |
| 3.1/4/Oral | Acute Tox. 4 | Acute toxicity (oral), Category 4 |
| 3.2/2 | Skin Irrit. 2 | Skin irritation, Category 2 |
| 3.3/2 | Eye Irrit. 2 | Eye irritation, Category 2 |
| 3.4.2/1 | Skin Sens. 1 | Skin Sensitisation, Category 1 |
| 3.7/1B | Repr. 1B | Reproductive toxicity, Category 1B |
| 3.8/3 | STOT SE 3 | Specific target organ toxicity — single exposure, Category 3 |
| 4.1/C3 | Aquatic Chronic 3 | Chronic (long term) aquatic hazard, category 3 |

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008 **Classification procedure**

Flam. Liq. 3, H226

On basis of test data

STOT SE 3, H336

Calculation method

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

BCF: Biological Concentration Factor

BEI: Biological Exposure Index

BOD: Biochemical Oxygen Demand

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CAV: Poison Center

CE: European Community

CLP: Classification, Labeling, Packaging.

CMR: Carcinogenic, Mutagenic and Reprotoxic

COD: Chemical Oxygen Demand

COV: Volatile Organic Compound

CSA: Chemical Safety Assessment

CSR: Chemical Safety Report

DMEL: Derived Minimal Effect Level

DNEL: Derived No Effect Level.

DPD: Dangerous Preparations Directive

DSD: Dangerous Substances Directive

EC50: Half Maximal Effective Concentration

ECHA: European Chemicals Agency

EINECS: European Inventory of Existing Commercial Chemical Substances.

ES: Exposure Scenario

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association.

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

IC50: half maximal inhibitory concentration

ICAO: International Civil Aviation Organization.

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

IMDG: International Maritime Code for Dangerous Goods.

INCI: International Nomenclature of Cosmetic Ingredients.

IRCCS: Scientific Institute for Research, Hospitalization and Health Care

KAFH: KAFH

KSt: Explosion coefficient.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

LDLo: Leathal Dose Low

N.A.: Not Applicable

N/A: Not Applicable

N/D: Not defined/ Not available

NA: Not available

NIOSH: National Institute for Occupational Safety and Health

NOAEL: No Observed Adverse Effect Level

OSHA: Occupational Safety and Health Administration

PBT: Persistent, Bioaccumulative and Toxic

PGK: Packaging Instruction

PNEC: Predicted No Effect Concentration.

PSG: Passengers

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

vPvB: Very Persistent, Very Bioaccumulative.

WGK: German Water Hazard Class.

Paragraphs modified from the previous revision:

- SECTION 2: Hazards identification
- SECTION 3: Composition/information on ingredients
- SECTION 7: Handling and storage
- SECTION 8: Exposure controls/personal protection
- SECTION 9: Physical and chemical properties
- SECTION 11: Toxicological information
- SECTION 12: Ecological information
- SECTION 14: Transport information
- SECTION 15: Regulatory information
- SECTION 16: Other information