

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 2 (replaces version 1)

Revision: 23.01.2023

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

1.1 Product identifier

Trade name: **Recoat Multi Primer Plus 2K**

Article number: 53832

Nanoform

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

Sector of Use

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Application of the substance / the mixture Paint

Uses advised against SU21 Consumer uses: Private households / general public / consumers

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Dercom B.V.

Platinawerf 24A

6641 TL Beuningen - Holland

Tel: 0031 24 67 525 74

Fax: 0031 24 67 525 77

Further information obtainable from: a.derks@dercom.nl

1.4 Emergency telephone number: Intended only to inform doctors in case of accidental poisoning.

* SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS07

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

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS07

Signal word Warning

Hazard-determining components of labelling:

2-octyl-2H-isothiazol-3-one

decarboxylating cashew nut shell liquid

3-aminopropyl dimethylamine

m-phenylenebis(methylamine)

Hazard statements

H317 May cause an allergic skin reaction.

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.

P285 In case of inadequate ventilation wear respiratory protection.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

Additional information:

Restricted to professional users.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

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* SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components %(m/m):

CAS: 13939-25-8 EINECS: 237-714-9 Reg.nr.: 01-2119970565-28	aluminium dihydrogen triphosphate ⚠ Eye Irrit. 2, H319	≥2.5-<10%
CAS: 109-55-7 EINECS: 203-680-9	3-aminopropyldimethylamine ⚠ Flam. Liq. 3, H226; ⚠ Acute Tox. 3, H311; ⚠ Skin Corr. 1B, H314; ⚠ Acute Tox. 4, H302; Skin Sens. 1, H317	≥0.1-≤0.5%
CAS: 1477-55-0 EINECS: 216-032-5 Reg.nr.: 01-2119480150-50	m-phenylenebis(methylamine) ⚠ Skin Corr. 1B, H314; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Sens. 1, H317; Aquatic Chronic 3, H412, EUH071	≥0.1-≤0.5%
CAS: 8007-24-7 EC number: 700-991-6 Reg.nr.: 01-2119502450-57	decarboxylating cashew nut shell liquid ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315; Skin Sens. 1A, H317	≥0.1-≤0.5%
CAS: 51274-00-1 EINECS: 257-098-5 Reg.nr.: 01-2119457554-33	Ironoxide yellow Nanoform: Elongated, crystalline nanoform	≤0.5%
CAS: 52-51-7 EINECS: 200-143-0 Reg.nr.: 01-2119980938-15	bronopol (INN) ⚠ Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=10); ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315; STOT SE 3, H335	≥0.0025-<0.025%
CAS: 26530-20-1 EINECS: 247-761-7	2-octyl-2H-isothiazol-3-one ⚠ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2, H330; ⚠ Skin Corr. 1, H314; Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400 (M=100); Aquatic Chronic 1, H410 (M=100); ⚠ Skin Sens. 1A, H317, EUH071 ATE: LD50 oral: 125 mg/kg LC50/4h inhalative: 0.27 mg/m ³ LD50 dermal: 311 mg/kg Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0.0015 %	≥0.0025-<0.025%

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

SECTION 4: First aid measures

4.1 Description of first aid measures

General information: Immediately remove any clothing soiled by the product.

After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

After eye contact:

Rinse opened eye for several minutes under running water. Then consult a doctor.

Remove contactlenses.

After swallowing: Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

* SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

Use fire extinguishing methods suitable to surrounding conditions.

CO₂ or powder. Fight larger fights with alcohol resistant foam.

5.2 Special hazards arising from the substance or mixture Carbon monoxide (CO)

5.3 Advice for firefighters

Protective equipment: Wear self-contained respiratory protective device.

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* SECTION 6: Accidental release measures

- . 6.1 Personal precautions, protective equipment and emergency procedures Not required.
- . 6.2 Environmental precautions:
 - Do not allow product to reach sewage system or any water course.
 - Inform respective authorities in case of seepage into water course or sewage system.
 - Dilute with plenty of water.
 - Do not allow to enter sewers/ surface or ground water.
- . 6.3 Methods and material for containment and cleaning up:
 - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
 - Collect leaking fluid in lockable waste containers.
- . 6.4 Reference to other sections
 - See Section 7 for information on safe handling.
 - See Section 8 for information on personal protection equipment.
 - See Section 13 for disposal information.

* SECTION 7: Handling and storage

- . 7.1 Precautions for safe handling No special precautions are necessary if used correctly.
- . Information about fire - and explosion protection: No special measures required.
- . 7.2 Conditions for safe storage, including any incompatibilities
 - . Storage:
 - . Requirements to be met by storerooms and receptacles: Store only in the original receptacle.
 - . Information about storage in one common storage facility: Store away from oxidising agents.
 - . Further information about storage conditions: Protect from frost.
 - . Storage class: 12
- . 7.3 Specific end use(s) No further relevant information available.

* SECTION 8: Exposure controls/personal protection

- . 8.1 Control parameters
- . Ingredients with limit values that require monitoring at the workplace:
 - The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- . DNELs
 - 13939-25-8 aluminium dihydrogen triphosphate**
 - Dermal Long-term exposure - systemic effects 32.9 mg/kg bw/day (worker)
 - Inhalative Long-term exposure - systemic effects 11.52 mg/m³ (worker)
- . PNECs
 - 13939-25-8 aluminium dihydrogen triphosphate**
 - PNEC 0.003 mg/l (aqua, marine water)
 - 0.03 mg/l (aqua freshwater)
- . Additional information: The lists valid during the making were used as basis.
- . 8.2 Exposure controls
 - . Appropriate engineering controls Ensure adequate ventilation.
 - . Individual protection measures, such as personal protective equipment
 - . General protective and hygienic measures:
 - Immediately remove all soiled and contaminated clothing
 - Wash hands before breaks and at the end of work.
 - . Respiratory protection:
 - Not necessary if room is well-ventilated.
 - Filter A.
 - If workers are exposed to concentrations above the exposure limit, they should use a suitable, certified respirator.
 - . Hand protection



Protective gloves

The glove material has to be impermeable and resistant to the product.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- . Material of gloves
 - Suitable materials for safety gloves (EN 374):
 - Butyl rubber, BR

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- . Penetration time of glove material
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- . Eye/face protection Goggles recommended during refilling
- . Body protection: Solvent resistant protective clothing
- . Environmental exposure controls No further data; see item 6 and 13.

* SECTION 9: Physical and chemical properties

. 9.1 Information on basic physical and chemical properties

. General Information

- | | |
|------------------------------------------------------------|-------------------------------------------------------------------------|
| . Physical state | Fluid |
| . Colour: | According to product specification |
| . Odour: | Characteristic |
| . Odour threshold: | Not determined. |
| . Melting point/freezing point: | Undetermined. |
| . Boiling point or initial boiling point and boiling range | ≥100 °C (7732-18-5 water, distilled, conductivity or of similar purity) |
| . Flammability | Not applicable. |
| . Lower and upper explosion limit | |
| . Lower: | Not determined. |
| . Upper: | Not determined. |
| . Flash point: | Not applicable. |
| . Decomposition temperature: | Not determined. |
| . pH at 20 °C | 8-8.5 |
| . Viscosity: | |
| . Kinematic viscosity | Not determined. |
| . Dynamic at 20 °C: | 3,500 mPas (DIN CUP 8) |
| . Solubility | |
| . water: | Slightly soluble. |
| . Partition coefficient n-octanol/water (log value) | Not determined. |
| . Vapour pressure at 20 °C: | ≤23 hPa (7732-18-5 water, distilled, conductivity or of similar purity) |
| . Density and/or relative density | |
| . Density at 20 °C: | 1.6 g/cm ³ |
| . Relative density | Not determined. |
| . Vapour density | Not determined. |
| . Particle characteristics | 51274-00-1 Ironoxide yellow: Elongated, crystalline nanoform |

. 9.2 Other information

- | | |
|---------------------------------------------------------------------------------|-----------------------------------------------|
| . Appearance: | |
| . Form: | Fluid |
| . Important information on protection of health and environment, and on safety. | |
| . Auto-ignition temperature: | Product is not selfigniting. |
| . Explosive properties: | Product does not present an explosion hazard. |
| . Solvent content: | |
| . Organic solvents: | 1.1 % |
| . Water: | 28.7 % |
| . VOC (EC) | 10.0 g/l |
| | 1.09 % |
| . Solids content: | 62.1 % |
| . Change in condition | |
| . Evaporation rate | Not determined. |
| . Information with regard to physical hazard classes | |
| . Explosives | Void |
| . Flammable gases | Void |
| . Aerosols | Void |
| . Oxidising gases | Void |
| . Gases under pressure | Void |
| . Flammable liquids | Void |
| . Flammable solids | Void |
| . Self-reactive substances and mixtures | Void |
| . Pyrophoric liquids | Void |

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. Pyrophoric solids	Void
. Self-heating substances and mixtures	Void
. Substances and mixtures, which emit flammable gases in contact with water	Void
. Oxidising liquids	Void
. Oxidising solids	Void
. Organic peroxides	Void
. Corrosive to metals	Void
. Desensitised explosives	Void

SECTION 10: Stability and reactivity

- . 10.1 Reactivity No further relevant information available.
- . 10.2 Chemical stability
- . Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- . 10.3 Possibility of hazardous reactions Reacts with strong oxidizing agents.
- . 10.4 Conditions to avoid High temperatures.
- . 10.5 Incompatible materials: Oxidizing agents
- . 10.6 Hazardous decomposition products: No dangerous decomposition products known.

* SECTION 11: Toxicological information

- . 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- . Acute toxicity Based on available data, the classification criteria are not met.
- . LD/LC50 values relevant for classification:

109-55-7 3-aminopropyldimethylamine

Oral LD50 1,870 mg/kg (rat)

Dermal LD50 490 mg/kg (rabbit)

1477-55-0 m-phenylenebis(methylamine)

Oral LD50 930 mg/kg (rat)

Dermal LD50 >3,100 mg/kg (rabbit)

Inhalative LC50/4h 1.34 mg/l (rat)

51274-00-1 Ironoxide yellow

Oral LD50 >10,000 mg/kg (rat)

Inhalative LC50/6h >195 mg/l (rat)

52-51-7 bronopol (INN)

Oral LD50 305 mg/kg (rat)

26530-20-1 2-octyl-2H-isothiazol-3-one

Oral LD50 125 mg/kg (ATE)

Dermal LD50 311 mg/kg (ATE)

Inhalative LC50/4h 0.27 mg/m³ (ATE)

. Skin corrosion/irritation

May cause an allergic skin reaction.

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

- . Serious eye damage/irritation Based on available data, the classification criteria are not met.
- . Respiratory or skin sensitisation May cause an allergic skin reaction.
- . Germ cell mutagenicity Based on available data, the classification criteria are not met.
- . Carcinogenicity Based on available data, the classification criteria are not met.
- . Reproductive toxicity Based on available data, the classification criteria are not met.
- . STOT-single exposure Based on available data, the classification criteria are not met.
- . STOT-repeated exposure Based on available data, the classification criteria are not met.
- . Aspiration hazard Based on available data, the classification criteria are not met.

. 11.2 Information on other hazards

. Endocrine disrupting properties

None of the ingredients is listed.

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* SECTION 12: Ecological information

- . 12.1 Toxicity
- . Aquatic toxicity:
 - 51274-00-1 Ironoxide yellow**
 - EC50/48h >100 mg/l (daphnia magna)
 - LC50/96h >100,000 mg/l (Danio rerio)
- . 12.2 Persistence and degradability No further relevant information available.
- . 12.3 Bioaccumulative potential No further relevant information available.
- . 12.4 Mobility in soil No further relevant information available.
- . 12.5 Results of PBT and vPvB assessment
 - . PBT: Not applicable.
 - . vPvB: Not applicable.
- . 12.6 Endocrine disrupting properties The product does not contain substances with endocrine disrupting properties.
- . 12.7 Other adverse effects
- . Remark: Harmful to fish
- . Additional ecological information:
- . General notes:
 - Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
 - Do not allow product to reach ground water, water course or sewage system.
 - Danger to drinking water if even small quantities leak into the ground.
 - Harmful to aquatic organisms

SECTION 13: Disposal considerations

- . 13.1 Waste treatment methods
- . Recommendation Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- . European waste catalogue
 - 08 01 19* aqueous suspensions containing paint or varnish containing organic solvents or other hazardous substances
- . Uncleaned packaging:
 - . Recommendation: Disposal must be made according to official regulations.
 - . Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information

- | | |
|----------------------------------------------------------------|-----------------|
| . 14.1 UN number or ID number | |
| . ADR/ADN, IMDG, IATA | Void |
| . 14.2 UN proper shipping name | |
| . ADR/ADN, IMDG, IATA | Void |
| . 14.3 Transport hazard class(es) | |
| . ADR/ADN, ADN, IMDG, IATA | |
| . Class | Void |
| . 14.4 Packing group | |
| . ADR/ADN, IMDG, IATA | Void |
| . 14.5 Environmental hazards: | Not applicable. |
| . 14.6 Special precautions for user | Not applicable. |
| . 14.7 Maritime transport in bulk according to IMO instruments | Not applicable. |
| . UN "Model Regulation": | Void |

SECTION 15: Regulatory information

- . 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- . Directive 2012/18/EU
- . Named dangerous substances - ANNEX I None of the ingredients is listed.
- . REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- . DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II
- None of the ingredients is listed.

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- . REGULATION (EU) 2019/1148
- . Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
 - None of the ingredients is listed.
- . Annex II - REPORTABLE EXPLOSIVES PRECURSORS
 - None of the ingredients is listed.
- . Regulation (EC) No 273/2004 on drug precursors
 - None of the ingredients is listed.
- . Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors
 - None of the ingredients is listed.
- . National regulations:
- . Other regulations, limitations and prohibitive regulations
 - The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation.
- . 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

* SECTION 16: Other information

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

- . Relevant phrases
 - H226 Flammable liquid and vapour.
 - H301 Toxic if swallowed.
 - H302 Harmful if swallowed.
 - H311 Toxic in contact with skin.
 - H312 Harmful in contact with skin.
 - H314 Causes severe skin burns and eye damage.
 - H315 Causes skin irritation.
 - H317 May cause an allergic skin reaction.
 - H318 Causes serious eye damage.
 - H319 Causes serious eye irritation.
 - H330 Fatal if inhaled.
 - H332 Harmful if inhaled.
 - H335 May cause respiratory irritation.
 - H400 Very toxic to aquatic life.
 - H410 Very toxic to aquatic life with long lasting effects.
 - H412 Harmful to aquatic life with long lasting effects.
 - EUH071 Corrosive to the respiratory tract.
- . Classification according to Regulation (EC) No 1272/2008

Skin sensitisation
 Hazardous to the aquatic environment - long-term (chronic)
 aquatic hazard

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

- . Department issuing SDS: Product safety department.
- . Contact: Mrs. A. Derks
- . Date of previous version: 17.01.2022
- . Version number of previous version: 1

. Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 VOC: Volatile Organic Compounds (USA, EU)
 DNEL: Derived No-Effect Level (REACH)
 PNEC: Predicted No-Effect Concentration (REACH)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 vPvB: very Persistent and very Bioaccumulative
 Flam. Liq. 3: Flammable liquids – Category 3
 Acute Tox. 4: Acute toxicity – Category 4
 Acute Tox. 3: Acute toxicity – Category 3
 Acute Tox. 2: Acute toxicity – Category 2
 Skin Corr. 1: Skin corrosion/irritation – Category 1
 Skin Corr. 1B: Skin corrosion/irritation – Category 1B
 Skin Irrit. 2: Skin corrosion/irritation – Category 2

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Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1A: Skin sensitisation – Category 1A
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

* Data compared to the previous version altered.

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Revision: 23.01.2023

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

1.1 Product identifier

Trade name: **Recoat Multi Primer Plus 2K hardener**

Article number: 43912

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

Sector of Use

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
 SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Application of the substance / the mixture Hardening agent/ Curing agent

Uses advised against SU21 Consumer uses: Private households / general public / consumers

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Dercom B.V.

Platinawerf 24A

6641 TL Beuningen - Holland

Tel: 0031 24 67 525 74 Fax:

0031 24 67 525 77

Further information obtainable from: a.derks@dercom.nl

1.4 Emergency telephone number: +31 6 100 145 27

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

The product is not classified, according to the CLP regulation.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 Void

Hazard pictograms Void

Signal word Void

Hazard statements Void

Precautionary statements

P280 Wear protective gloves / eye protection.

P284 In case of inadequate ventilation wear respiratory protection.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

Additional information:

EUH205 Contains epoxy constituents. May produce an allergic reaction.

EUH210 Safety data sheet available on request.

Restricted to professional users.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components %(m/m):

CAS: 107-98-2	1-methoxy-2-propanol	2.5-10%
EINECS: 203-539-1	⚠ Flam. Liq. 3, H226; ⚠ STOT SE 3, H336	
Reg.nr.: 01-2119457435-35		

CAS: 100-51-6	Benzyl alcohol	≥2.5-<10%
EINECS: 202-859-9	⚠ Acute Tox. 4, H302; Acute Tox. 4, H332; Eye Irrit. 2, H319	
Reg.nr.: 01-2119492630-38		

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

SECTION 4: First aid measures

4.1 Description of first aid measures

General information: Immediately remove any clothing soiled by the product.

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

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- If skin irritation continues, consult a doctor.
- **After eye contact:**
Rinse opened eye for several minutes under running water. Then consult a doctor.
Remove contactlenses.
- **After swallowing:**
Rinse mouth.
Do not induce vomiting; call for medical help immediately.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** CO₂ or powder. Fight larger fights with alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water spray
- **5.2 Special hazards arising from the substance or mixture**
Nitrogen oxides (NO_x)
Carbon monoxide (CO)
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Not required.
- **6.2 Environmental precautions:**
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Collect leaking fluid in lockable waste containers.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** No special precautions are necessary if used correctly.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
- **Information about storage in one common storage facility:** Store away from oxidising agents.
- **Further information about storage conditions:**
Storage temperature: 2-40
Protect from frost.
- **Storage class:** 10
- **7.3 Specific end use(s)** No further relevant information available.

* SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**

107-98-2 1-methoxy-2-propanol

IOELV Short-term value: 568 mg/m³, 150 ppm
 Long-term value: 375 mg/m³, 100 ppm
 Skin

- **DNELs**

107-98-2 1-methoxy-2-propanol

Dermal Acute - short-term exposure - systemic effects 553.5 mg/kg (worker)
 Long-term exposure - systemic effects 183 mg/kg bw/day (worker)
 Inhalative Acute - short-term exposure - local effects 553.5 mg/m³ (worker)

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Long-term exposure - systemic effects 369 mg/m³ (worker)**100-51-6 Benzyl alcohol**

Dermal Acute - short-term exposure - systemic effects 40 mg/kg bw/day (worker)

Long-term exposure - systemic effects 8 mg/kg bw/day (worker)

Inhalative Acute - short-term exposure - systemic effects 110 mg/m³ (worker)Long-term exposure - systemic effects 22 mg/m³ (worker)

PNECs

107-98-2 1-methoxy-2-propanol

PNEC 5.2 mg/kg (sediment marine water)

52.3 mg/kg (sediment freshwater)

4.59 mg/kg (soil)

PNEC 100 mg/l (STP)

10 mg/l (aqua, freshwater)

1 mg/l (aqua, marine water)

100-51-6 Benzyl alcohol

PNEC 5.27 mg/kg (sediment freshwater)

0.456 mg/kg (soil)

PNEC 39 mg/l (STP)

1 mg/l (aqua, freshwater)

2.3 mg/l (aqua, intermittent releases)

0.1 mg/l (aqua, marine water)

0.527 mg/l (sediment marine water)

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

- Appropriate engineering controls Ensure adequate ventilation.
- Individual protection measures, such as personal protective equipment
- General protective and hygienic measures: Wash hands before breaks and at the end of work.
- Respiratory protection:
 - If workers are exposed to concentrations above the exposure limit, they should use a suitable, certified respirator.
 - Short term filter device: ABEK
- Hand protection



Protective gloves

The glove material has to be impermeable and resistant to the product.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- Material of gloves
 - Suitable materials for safety gloves (EN 374):
 - Fluorocarbon rubber gloves (Viton)
- Penetration time of glove material
 - Thickness of the gloves ≥ 0.4 mm (benzylalcohol).
 - Value for the permeation ≥ 480 min (benzylalcohol)
 - The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- Eye/face protection Goggles recommended during refilling
- Body protection: Solvent resistant protective clothing
- Environmental exposure controls No further data; see item 6 and 13.

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
- General Information
- Physical state Fluid
- Colour: According to product specification
- Odour: Characteristic
- Odour threshold: Not determined.
- Melting point/freezing point: Undetermined.
- Boiling point or initial boiling point and boiling range ≥ 100 °C (7732-18-5 water, distilled, conductivity or of similar purity)
- Flammability Not applicable.

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. Lower and upper explosion limit	
. Lower:	Not determined.
. Upper:	Not determined.
. Flash point:	>95 °C
. Decomposition temperature:	Not determined.
. pH	Not determined.
. Viscosity:	
. Kinematic viscosity	Not determined.
. Dynamic at 20 °C:	125 mPas
. Solubility	
. water:	Slightly soluble.
. Partition coefficient n-octanol/water (log value)	Not determined.
. Vapour pressure at 20 °C:	≤23 hPa (7732-18-5 water, distilled, conductivity or of similar purity)
. Density and/or relative density	
. Density at 20 °C:	1.1 g/cm ³
. Relative density	Not determined.
. Vapour density	Not determined.
. 9.2 Other information	
. Appearance:	
. Form:	Fluid
. Important information on protection of health and environment, and on safety.	
. Auto-ignition temperature:	Product is not selfigniting.
. Explosive properties:	Product does not present an explosion hazard.
. Solvent content:	
. Organic solvents:	11.9 %
. Water:	35.2 %
. VOC (EC)	80.0 g/l 11.88 %
. Solids content:	52.8 %
. Change in condition	
. Evaporation rate	Not determined.
. Information with regard to physical hazard classes	
. Explosives	Void
. Flammable gases	Void
. Aerosols	Void
. Oxidising gases	Void
. Gases under pressure	Void
. Flammable liquids	Void
. Flammable solids	Void
. Self-reactive substances and mixtures	Void
. Pyrophoric liquids	Void
. Pyrophoric solids	Void
. Self-heating substances and mixtures	Void
. Substances and mixtures, which emit flammable gases in contact with water	Void
. Oxidising liquids	Void
. Oxidising solids	Void
. Organic peroxides	Void
. Corrosive to metals	Void
. Desensitised explosives	Void

SECTION 10: Stability and reactivity

- . 10.1 Reactivity No further relevant information available.
- . 10.2 Chemical stability
- . Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- . 10.3 Possibility of hazardous reactions Reacts with strong oxidizing agents.
- . 10.4 Conditions to avoid High temperatures.
- . 10.5 Incompatible materials: Oxidizing agents

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10.6 Hazardous decomposition products:

Carbon dioxide
Carbon monoxide

SECTION 11: Toxicological information

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

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

· LD/LC50 values relevant for classification:

107-98-2 1-methoxy-2-propanol

Oral LD50 4,016 mg/kg (rat)

Dermal LD50 >2,000 mg/kg (rat)

Inhalative LC50/6h >25.8 mg/l (rat)

100-51-6 Benzyl alcohol

Oral LD50 1,620 mg/kg (rat)

Inhalative LC50 >4,178 mg/m3 (rat)

· Skin corrosion/irritation Based on available data, the classification criteria are not met.

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

· Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

· Germ cell mutagenicity Based on available data, the classification criteria are not met.

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

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

· STOT-single exposure Based on available data, the classification criteria are not met.

· STOT-repeated exposure Based on available data, the classification criteria are not met.

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

11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

12.1 Toxicity

· Aquatic toxicity:

107-98-2 1-methoxy-2-propanol

EC50/96h >1,000 mg/l (selenastrum capricornutum)

LC50/48h (static) 21,100-25,900 mg/l (daphnia magna)

IC50/3h 1,000 mg/l (ac) (OECD 209)

LC50/96h 38,412 mg/l (leuciscus idus)

>1,000 mg/l (oncorhynchus mykiss) (OECD 203)

20,800 mg/l (pimphales promelas)

100-51-6 Benzyl alcohol

EC50/96h 640 mg/l (scenedesmus quadricauda)

EC50/16h >658 mg/l (bacteria) (DIN 38412 Teil 8)

NOEC/21d 51 mg/l (daphnia magna) (OECD 211)

NOEC/72h 310 mg/l (pseudokirchneriella subcapitata) (OESO 201)

EC50/72h 770 mg/l (pseudokirchneriella subcapitata) (OESO 201)

LC50/48h 230 mg/l (daphnia magna) (OESO 202)

LC50/96h 460 mg/l (pimphales promelas)

· 12.2 Persistence and degradability No further relevant information available.

· Degree of elimination:

107-98-2 1-methoxy-2-propanol

BOD/28d 96 % (l) (OECD 301E)

100-51-6 Benzyl alcohol

OECD 301C/14d 92-96 % (l)

· 12.3 Bioaccumulative potential

107-98-2 1-methoxy-2-propanol

BCF <100 (l)

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LogPow 0.37 (/)

100-51-6 Benzyl alcohol

BCF 1.37 (/)

LogPow 1.1 (/)

- . 12.4 Mobility in soil No further relevant information available.
- . 12.5 Results of PBT and vPvB assessment
 - . PBT: Not applicable.
 - . vPvB: Not applicable.
- . 12.6 Endocrine disrupting properties The product does not contain substances with endocrine disrupting properties.
- . 12.7 Other adverse effects
- . Additional ecological information:
- . General notes:
 - Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
 - Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

- . 13.1 Waste treatment methods
 - . Recommendation Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- . European waste catalogue
 - 16 10 01* aqueous liquid wastes containing hazardous substances
 - 08 01 19* aqueous suspensions containing paint or varnish containing organic solvents or other hazardous substances
- . Uncleaned packaging:
 - . Recommendation: Disposal must be made according to official regulations.
 - . Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information

- | | |
|----------------------------------------------------------------|-----------------|
| . 14.1 UN number or ID number | |
| . ADR/ADN, ADN, IMDG, IATA | Void |
| . 14.2 UN proper shipping name | |
| . ADR/ADN, ADN, IMDG, IATA | Void |
| . 14.3 Transport hazard class(es) | |
| . ADR/ADN, ADN, IMDG, IATA | |
| . Class | Void |
| . 14.4 Packing group | |
| . ADR/ADN, IMDG, IATA | Void |
| . 14.5 Environmental hazards: | |
| . Marine pollutant: | No |
| . 14.6 Special precautions for user | Not applicable. |
| . 14.7 Maritime transport in bulk according to IMO instruments | Not applicable. |
| . UN "Model Regulation": | Void |

SECTION 15: Regulatory information

- . 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
 - . Directive 2012/18/EU
 - . Named dangerous substances - ANNEX I None of the ingredients is listed.
 - . DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II
 - None of the ingredients is listed.
 - . REGULATION (EU) 2019/1148
 - . Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
 - None of the ingredients is listed.
 - . Annex II - REPORTABLE EXPLOSIVES PRECURSORS
 - None of the ingredients is listed.

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- Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

- Regulation (EC) No 1111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

- National regulations:

- Other regulations, limitations and prohibitive regulations

The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation.

- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

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

- Relevant phrases

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H336 May cause drowsiness or dizziness.

- Department issuing SDS: Product safety department.

- Contact: Mrs. A. Derks

- Date of previous version: 06.12.2021

- Version number of previous version: 7

- Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

VOC: Volatile Organic Compounds (USA, EU)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

- * Data compared to the previous version altered.
