

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006 and (EU) No 2020/878

**MARCANO solution**

Revision: 10.01.2024

Product code: 17291.xxxxx

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

MARCANO solution

UFI: 8HVH-S1FF-000C-M56M

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

Use as laboratory reagent.

The product is intended for research, analysis and scientific education.

**Uses advised against**

Any non-intended use.

**1.3. Details of the supplier of the safety data sheet**

|                 |                                    |                                   |
|-----------------|------------------------------------|-----------------------------------|
| Company name:   | MORPHISTO GmbH                     |                                   |
| Street:         | Schumannstr. 142/144               |                                   |
| Place:          | D-63069 Offenbach                  |                                   |
| Telephone:      | +49 (0) 69 / 400 3019-60           | Telefax: +49 (0) 69 / 400 3019-64 |
| E-mail:         | info@morphisto.de                  |                                   |
| Contact person: | Morphisto GmbH                     |                                   |
| E-mail:         | gefahrstoffmanagement@morphisto.de |                                   |
| Internet:       | http://www.morphisto.de            |                                   |

**1.4. Emergency telephone number:**

Poison Information Center Mainz, Germany, Tel: +49(0)6131/19240

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**

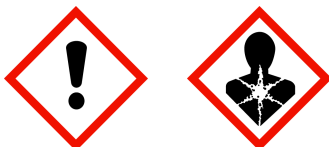
Carc. 1B; H350

Skin Sens. 1; H317

Full text of hazard statements: see SECTION 16.

**2.2. Label elements****Regulation (EC) No 1272/2008****Hazard components for labelling**

formaldehyde&lt;1%. 01-2119488953-20-xxxx

**Signal word:** Danger**Pictograms:****Hazard statements**

|      |                                      |
|------|--------------------------------------|
| H317 | May cause an allergic skin reaction. |
| H350 | May cause cancer.                    |

**Precautionary statements**

|           |                                                                                |
|-----------|--------------------------------------------------------------------------------|
| P201      | Obtain special instructions before use.                                        |
| P280      | Wear protective gloves/protective clothing and eye protection/face protection. |
| P308+P313 | IF exposed or concerned: Get medical advice/attention.                         |

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#### 2.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulating and toxic (PBT) or very persistent and very bioaccumulating (vPvB) at levels of 0.1% or higher. Ecological information: The substance/mixture does not contain any components that are considered to be hazardous according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in amounts of 0.1 % or more have endocrine disrupting properties. Toxicological information: The substance/mixture does not contain any components that are to be classified according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1 % or more have endocrine disrupting properties.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

**Chemical characterization**  
in aqueous solution

##### Relevant ingredients

| CAS No  | Chemical name                                                                                                                |              |                  | Quantity |
|---------|------------------------------------------------------------------------------------------------------------------------------|--------------|------------------|----------|
|         | EC No                                                                                                                        | Index No     | REACH No         |          |
|         | Classification (Regulation (EC) No 1272/2008)                                                                                |              |                  |          |
| 50-00-0 | formaldehyde%. 01-2119488953-20-xxxx                                                                                         |              |                  | < 1 %    |
|         | 200-001-8                                                                                                                    | 605-001-00-5 | 01-2119488953-20 |          |
|         | Carc. 1B, Muta. 2, Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, Skin Corr. 1B, Skin Sens. 1; H350 H341 H331 H311 H301 H314 H317 |              |                  |          |
| 67-56-1 | methanol                                                                                                                     |              |                  | < 1 %    |
|         | 200-659-6                                                                                                                    | 603-001-00-X | 01-2119433307-44 |          |
|         | Flam. Liq. 2, Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, STOT SE 1; H225 H331 H311 H301 H370                                  |              |                  |          |

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

##### Specific Conc. Limits, M-factors and ATE

| CAS No  | EC No     | Chemical name                                                                                                                                                                                                                                                                                     | Quantity |
|---------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
|         |           | Specific Conc. Limits, M-factors and ATE                                                                                                                                                                                                                                                          |          |
| 50-00-0 | 200-001-8 | formaldehyde%. 01-2119488953-20-xxxx                                                                                                                                                                                                                                                              | < 1 %    |
|         |           | inhalation: LC50 = 3 mg/l (vapours); inhalation: ATE = 0.5 mg/l (dusts or mists); dermal: LD50 = 292 mg/kg; oral: LD50 = 100 mg/kg Skin Corr. 1B; H314: >= 25 - 100 Skin Irrit. 2; H315: >= 5 - < 25 Eye Irrit. 2; H319: >= 5 - < 25 Skin Sens. 1; H317: >= 0.2 - 100 STOT SE 3; H335: >= 5 - 100 |          |
| 67-56-1 | 200-659-6 | methanol                                                                                                                                                                                                                                                                                          | < 1 %    |
|         |           | inhalation: LC50 = 128,2 mg/l (vapours); inhalation: ATE = 0.5 mg/l (dusts or mists); dermal: LD50 = 17000 mg/kg; oral: LD50 = 1187-2769 mg/kg STOT SE 1; H370: >= 10 - 100 STOT SE 2; H371: >= 3 - < 10                                                                                          |          |

##### Further Information

This mixture contains no substances of very high concern (SVHC) (> 0,1%) which are included in the Candidate List according to Article 59 of REACH.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information

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

Remove contaminated, saturated clothing immediately.

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First aider: Pay attention to self-protection!

**After inhalation**

Provide fresh air. When in doubt or if symptoms are observed, get medical advice. In case of accident by inhalation: remove casualty to fresh air and keep at rest. If breathing is irregular or stopped, administer artificial respiration. Where appropriate artificial ventilation. Get immediate medical advice/attention.

**After contact with skin**

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. Get immediate medical advice/attention.

**After contact with eyes**

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

**After ingestion**

Observe risk of aspiration if vomiting occurs. If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Let water be drunk in little sips (dilution effect). Do NOT induce vomiting. Get immediate medical advice/attention.

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

No information available.

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

Treat symptomatically. First Aid, decontamination, treatment of symptoms.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings. Carbon dioxide (CO<sub>2</sub>). Dry extinguishing powder. alcohol resistant foam. Water spray

**Unsuitable extinguishing media**

High power water jet.

**5.2. Special hazards arising from the substance or mixture**

Non-flammable. In case of fire may be liberated: Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Formaldehyde

**5.3. Advice for firefighters**

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

**Additional information**

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Co-ordinate fire-fighting measures to the fire surroundings.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment. Ventilate affected area.

Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.

**6.2. Environmental precautions**

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

**6.3. Methods and material for containment and cleaning up**

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**For cleaning up**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

**Other information**

Clean contaminated objects and areas thoroughly observing environmental regulations.

**6.4. Reference to other sections**

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. Technical ventilation of workplace. Use extractor hood (laboratory).

Wear suitable protective clothing. ( See section 8. )

Avoid exposure - obtain special instructions before use.

Avoid contact with skin, eyes and clothes.

**Advice on protection against fire and explosion**

Usual measures for fire prevention.

**Advice on general occupational hygiene**

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff. Always close containers tightly after the removal of product. Wash contaminated clothing prior to re-use. Used working clothes should not be worn outside the work area. Street clothing should be stored separately from work clothing.

**Further information on handling**

General protection and hygiene measures: See section 8.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaust at critical locations.

Keep/Store only in original container.

Ensure adequate ventilation of the storage area.

**Hints on joint storage**

Do not store together with: Explosives. Gas.. Oxidizing liquids. Oxidizing solids. Self-reactive substances and mixtures. Organic peroxides. Ammonium nitrate. Combustible toxic substances. Non-combustible toxic substances. Radioactive substances. Infectious substances.

**Further information on storage conditions**

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

Recommended storage temperature: 15-25 °C

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

Store small packages in a suitable, robust cabinet.

**7.3. Specific end use(s)**

See section 1.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters**

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**Occupational exposure limit values**

| CAS No  | Name of agent | ppm | mg/m <sup>3</sup> | fib/cm <sup>3</sup> | Category      | Origin |
|---------|---------------|-----|-------------------|---------------------|---------------|--------|
| 50-00-0 | Formaldehyde  | 0.3 | 0.37              |                     | TWA (8 h)     |        |
|         |               | 0.6 | 0.74              |                     | STEL (15 min) |        |
| 67-56-1 | Methanol      | 200 | 260               |                     | TWA (8 h)     |        |

**DNEL/DMEL values**

| CAS No                 | Name of agent                        |                |          |                  |
|------------------------|--------------------------------------|----------------|----------|------------------|
| DNEL type              |                                      | Exposure route | Effect   | Value            |
| 50-00-0                | formaldehyde%. 01-2119488953-20-xxxx |                |          |                  |
| Worker DNEL, acute     |                                      | inhalation     | systemic | 1 mg/m³          |
| Worker DNEL, long-term |                                      | dermal         | systemic | 240 mg/kg bw/day |
| Worker DNEL, long-term |                                      | inhalation     | systemic | 0,5 mg/m³        |
| Worker DNEL, long-term |                                      | inhalation     | local    | 0,375 mg/m³      |
| Worker DNEL, acute     |                                      | inhalation     | local    | 0,75 mg/m³       |
| Worker DNEL, long-term |                                      | dermal         | local    | 0,037 mg/cm²     |
| 67-56-1                | methanol                             |                |          |                  |
| Worker DNEL, acute     |                                      | inhalation     | local    | 260 mg/m³        |
| Worker DNEL, acute     |                                      | dermal         | systemic | 40 mg/kg bw/day  |
| Worker DNEL, acute     |                                      | inhalation     | systemic | 260 mg/m³        |
| Worker DNEL, long-term |                                      | inhalation     | local    | 260 mg/m³        |
| Worker DNEL, long-term |                                      | dermal         | systemic | 40 mg/kg bw/day  |
| Worker DNEL, long-term |                                      | inhalation     | systemic | 260 mg/m³        |

**PNEC values**

| CAS No                                           | Name of agent                        |            |
|--------------------------------------------------|--------------------------------------|------------|
| Environmental compartment                        |                                      | Value      |
| 50-00-0                                          | formaldehyde%. 01-2119488953-20-xxxx |            |
| Freshwater                                       |                                      | 0,44 mg/l  |
| Freshwater (intermittent releases)               |                                      | 4,44 mg/l  |
| Marine water                                     |                                      | 0,44 mg/l  |
| Freshwater sediment                              |                                      | 2,3 mg/kg  |
| Marine sediment                                  |                                      | 2,3 mg/kg  |
| Micro-organisms in sewage treatment plants (STP) |                                      | 0,19 mg/l  |
| Soil                                             |                                      | 0,2 mg/kg  |
| 67-56-1                                          | methanol                             |            |
| Freshwater                                       |                                      | 20,8 mg/l  |
| Marine water                                     |                                      | 2,08 mg/l  |
| Marine water (intermittent releases)             |                                      | 1540 mg/l  |
| Freshwater sediment                              |                                      | 77 mg/kg   |
| Marine sediment                                  |                                      | 7,7 mg/kg  |
| Micro-organisms in sewage treatment plants (STP) |                                      | 100 mg/l   |
| Soil                                             |                                      | 3,18 mg/kg |

**8.2. Exposure controls**

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**Appropriate engineering controls**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. Technical ventilation of workplace. Use extractor hood (laboratory).

Process within closed systems.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Wear eye protection/face protection. Suitable eye protection: Tightly sealed safety glasses. EN 166

**Hand protection**

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Pull-over gloves of rubber. EN ISO 374

Suitable material:

(penetration time (maximum wearing period):  $\geq$  8 Stunden):

CR (polychloroprenes, Chloroprene rubber). (0,5 mm)

NBR (Nitrile rubber). (0,35 mm)

FKM (fluororubber). (0,4 mm)

PVC (Polyvinyl chloride). (0,5 mm)

Butyl rubber. (0,5 mm)

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

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

**Skin protection**

Use of protective clothing. Suitable protective clothing: Protective clothing.

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

**Respiratory protection**

In case of inadequate ventilation wear respiratory protection. Respiratory protection necessary at:

Insufficient ventilation.

insufficient absorption.

exceeding exposure limit values

Release of: product

Suitable respiratory protective equipment:

Self-contained respirator (breathing apparatus)

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used. The wearing time limitations according to GefStoffV in conjunction with the rules for the use of respiratory protective devices (BGR 190) must be observed.

**Environmental exposure controls**

Do not empty into drains.

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

Physical state:

liquid

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|                                                           |                |                        |
|-----------------------------------------------------------|----------------|------------------------|
| Colour:                                                   | colourless     |                        |
| Odour:                                                    | characteristic |                        |
| Melting point/freezing point:                             |                | not determined         |
| Boiling point or initial boiling point and boiling range: |                | 100 °C                 |
| Flammability:                                             |                | not determined         |
| Lower explosion limits:                                   |                | not determined         |
| Upper explosion limits:                                   |                | not determined         |
| Flash point:                                              |                | not determined         |
| Auto-ignition temperature:                                |                | not determined         |
| Decomposition temperature:                                |                | not determined         |
| pH-Value (at 20 °C):                                      |                | 7,5-8,5                |
| Viscosity / kinematic:                                    |                | not determined         |
| Water solubility:                                         |                | completely miscible    |
| (at 20 °C)                                                |                |                        |
| Solubility in other solvents                              |                |                        |
| not determined                                            |                |                        |
| Partition coefficient n-octanol/water:                    |                | not determined         |
| Vapour pressure:                                          |                | 23 hPa                 |
| (at 20 °C)                                                |                |                        |
| Density (at 20 °C):                                       |                | 1,03 g/cm <sup>3</sup> |
| Relative vapour density:                                  |                | not determined         |
| Particle characteristics:                                 |                | not applicable         |

**9.2. Other information****Information with regard to physical hazard classes**

## Explosive properties

The product is not: Explosive.

## Sustained combustibility:

No sustained combustibility

## Self-ignition temperature

## Gas:

not determined

## Oxidizing properties

none

**Other safety characteristics**

## Evaporation rate:

not determined

## Solvent separation test:

not determined

## Solvent content:

not determined

## Solid content:

not determined

## Sublimation point:

not determined

## Softening point:

not determined

## Pour point:

not determined

## Viscosity / dynamic:

not determined

## Flow time:

not determined

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

No information available.

**10.2. Chemical stability**

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

**10.3. Possibility of hazardous reactions**

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No information available.

#### 10.4. Conditions to avoid

Keep away from heat.

#### 10.5. Incompatible materials

Materials to avoid: Oxidizing agents, strong. Strong acid. Nitrogen oxides (NOx). Nitric acid. Hydrogenium peroxide. Aniline. Performic acid, perchloric acid

#### 10.6. Hazardous decomposition products

 In case of fire may be liberated: Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Formaldehyde

### 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.

##### ATEmix calculated

ATE (oral) &gt; 5000 mg/kg; ATE (dermal) &gt; 5000 mg/kg

| CAS No  | Chemical name                        |                      |         |                |        |
|---------|--------------------------------------|----------------------|---------|----------------|--------|
|         | Exposure route                       | Dose                 | Species | Source         | Method |
| 50-00-0 | formaldehyde%. 01-2119488953-20-xxxx |                      |         |                |        |
|         | oral                                 | LD50 100 mg/kg       | Rat     | GESTIS         |        |
|         | dermal                               | LD50 292 mg/kg       | Rabbit  | GESTIS         |        |
|         | inhalation (4 h) vapour              | LC50 3 mg/l          | Rat     | suppliers SDS. |        |
|         | inhalation dust/mist                 | ATE 0.5 mg/l         |         |                |        |
| 67-56-1 | methanol                             |                      |         |                |        |
|         | oral                                 | LD50 1187-2769 mg/kg | Rat     | ECHA           |        |
|         | dermal                               | LD50 17000 mg/kg     | Rabbit  | ECHA           |        |
|         | inhalation (4 h) vapour              | LC50 128,2 mg/l      | Rat     | suppliers SDS. |        |
|         | inhalation dust/mist                 | ATE 0.5 mg/l         |         |                |        |

##### Irritation and corrosivity

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

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

##### Sensitising effects

May cause an allergic skin reaction. (formaldehyde%. 01-2119488953-20-xxxx)

##### Carcinogenic/mutagenic/toxic effects for reproduction

May cause cancer. (formaldehyde%. 01-2119488953-20-xxxx)

Germ cell mutagenicity: 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.



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#### Aspiration hazard

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

#### 11.2. Information on other hazards

##### Endocrine disrupting properties

This product does not contain any substance that has endocrine disrupting properties in humans as no ingredient meets the criteria.

##### Other information

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP]. Special hazards arising from the substance or mixture!

### SECTION 12: Ecological information

#### 12.1. Toxicity

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

| CAS No  | Chemical name                        |                  |           |                            |                |          |
|---------|--------------------------------------|------------------|-----------|----------------------------|----------------|----------|
|         | Aquatic toxicity                     | Dose             | [h]   [d] | Species                    | Source         | Method   |
| 50-00-0 | formaldehyde%. 01-2119488953-20-xxxx |                  |           |                            |                |          |
|         | Acute fish toxicity                  | LC50 6,7 mg/l    | 96 h      | Pimephales promelas        | suppliers SDS. |          |
|         | Acute algae toxicity                 | ErC50 4,89 mg/l  | 72 h      | Desmodesmus subspicatus    | ECHA Dossier   |          |
|         | Acute crustacea toxicity             | EC50 5,8 mg/l    | 48 h      | Daphnia pulex (water flea) | ECHA Dossier   |          |
| 67-56-1 | methanol                             |                  |           |                            |                |          |
|         | Acute fish toxicity                  | LC50 15400 mg/l  | 96 h      | Lepomis macrochirus        | ECHA Dossier   |          |
|         | Acute algae toxicity                 | ErC50 22000 mg/l | 96 h      | Selenastrum capricornutum  | ECHA Dossier   |          |
|         | Acute crustacea toxicity             | EC50 18000 mg/l  | 48 h      | Daphnia magna              | ECHA Dossier   | OECD 202 |

#### 12.2. Persistence and degradability

The product has not been tested.

| CAS No  | Chemical name                                       |       |    |              |
|---------|-----------------------------------------------------|-------|----|--------------|
|         | Method                                              | Value | d  | Source       |
|         | Evaluation                                          |       |    |              |
| 50-00-0 | formaldehyde%. 01-2119488953-20-xxxx                |       |    |              |
|         | OECD Guideline 301 C                                | 91 %  | 14 | ECHA Dossier |
|         | Readily biodegradable (according to OECD criteria). |       |    |              |
|         | OECD Guideline 301 D                                | 90    | 28 | ECHA Dossier |
|         | Product is biodegradable.                           |       |    |              |
| 67-56-1 | methanol                                            |       |    |              |
|         | other guideline                                     | 96%   | 20 | ECHA Dossier |
|         | Readily biodegradable (according to OECD criteria). |       |    |              |

#### 12.3. Bioaccumulative potential

The product has not been tested.

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**Partition coefficient n-octanol/water**

| CAS No  | Chemical name                        | Log Pow |
|---------|--------------------------------------|---------|
| 50-00-0 | formaldehyde%. 01-2119488953-20-xxxx | 0,35    |
| 67-56-1 | methanol                             | -0,77   |

**BCF**

| CAS No  | Chemical name | BCF | Species | Source |
|---------|---------------|-----|---------|--------|
| 67-56-1 | methanol      | <10 |         |        |

**12.4. Mobility in soil**

No information available.

**12.5. Results of PBT and vPvB assessment**

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

**12.6. Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**12.7. Other adverse effects**

No information available.

**Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Do not allow uncontrolled discharge of product into the environment.

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

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation. Consult the local waste disposal expert about waste disposal.

Non-contaminated packages may be recycled. According to (EWC) European Waste Catalogue, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

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

**List of Wastes Code - residues/unused products**

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste

**List of Wastes Code - used product**

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste

**List of Wastes Code - contaminated packaging**

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

**Contaminated packaging**

Hazardous waste according to Directive 2008/98/EC (waste framework directive). Handle contaminated packages in the same way as the substance itself.

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

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**14.1. UN number or ID number:**

No dangerous good in sense of this transport regulation.

**14.2. UN proper shipping name:**

No dangerous good in sense of this transport regulation.

**14.3. Transport hazard class(es):**

No dangerous good in sense of this transport regulation.

**14.4. Packing group:**

No dangerous good in sense of this transport regulation.

**Inland waterways transport (ADN)**
**14.1. UN number or ID number:**

No dangerous good in sense of this transport regulation.

**14.2. UN proper shipping name:**

No dangerous good in sense of this transport regulation.

**14.3. Transport hazard class(es):**

No dangerous good in sense of this transport regulation.

**14.4. Packing group:**

No dangerous good in sense of this transport regulation.

**Marine transport (IMDG)**
**14.1. UN number or ID number:**

No dangerous good in sense of this transport regulation.

**14.2. UN proper shipping name:**

No dangerous good in sense of this transport regulation.

**14.3. Transport hazard class(es):**

No dangerous good in sense of this transport regulation.

**14.4. Packing group:**

No dangerous good in sense of this transport regulation.

**Air transport (ICAO-TI/IATA-DGR)**
**14.1. UN number or ID number:**

No dangerous good in sense of this transport regulation.

**14.2. UN proper shipping name:**

No dangerous good in sense of this transport regulation.

**14.3. Transport hazard class(es):**

No dangerous good in sense of this transport regulation.

**14.4. Packing group:**

No dangerous good in sense of this transport regulation.

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**14.6. Special precautions for user**

Not restricted

**14.7. Maritime transport in bulk according to IMO instruments**

Not restricted

## SECTION 15: Regulatory information

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

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 75

Directive 2010/75/EU on industrial emissions:

No information available.

Directive 2004/42/EC on VOC in paints and varnishes:

No information available.

Information according to Directive 2012/18/EU (SEVESO III):

Not subject to 2012/18/EU (SEVESO III)

**Additional information**

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

**National regulatory information**

Employment restrictions:

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D):

3 - highly hazardous to water

Skin resorption/Sensitization:

Causes allergic hypersensitivity reactions.

**Additional information**

The product is subject to the Chemicals Prohibition Ordinance (ChemVerbotsV). Observe the requirements and

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restrictions for handling and dispensing in Section 3 of the ChemVerbotsV, among others.

**15.2. Chemical safety assessment**

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

formaldehyde%. 01-2119488953-20-xxxx

methanol

**SECTION 16: Other information****Changes**

Rev. 1.0; 08.07.2025, Initial release

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**Abbreviations and acronyms**

Flam. Liq. 2: Flammable liquids, hazard category 2  
Acute Tox. 3: Acute toxicity, hazard category 3  
Skin Corr. 1B: Skin corrosion, sub-category 1B  
Skin Sens. 1: Skin sensitisation, hazard category 1  
Muta. 2: Germ cell mutagenicity, hazard category 2  
Carc. 1B: Carcinogenicity, hazard category 1B  
STOT SE 1: Specific target organ toxicity - single exposure, hazard category 1  
ADR: Accord européen sur le transport des marchandises dangereuses par Route  
CAS: Chemical Abstracts Service  
DNEL: Derived No Effect Level  
IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)  
ICAO: International Civil Aviation Organization  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)  
LOAEL: Lowest observed adverse effect level  
LOAEC: Lowest observed adverse effect concentration  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
NOAEL: No observed adverse effect level  
NOAEC: No observed adverse effect level  
NTP: National Toxicology Program  
N/A: not applicable  
OSHA: Occupational Safety and Health Administration  
PNEC: predicted no effect concentration  
PBT: Persistent bioaccumulative toxic  
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail )  
SARA: Superfund Amendments and Reauthorization Act  
SVHC: substance of very high concern  
TRGS: Technische Regeln fuer Gefahrstoffe  
TSCA: Toxic Substances Control Act  
VOC: Volatile Organic Compounds  
VwVwS: Verwaltungsvorschrift wassergefährdender Stoffe  
WGK: Wassergefährdungsklasse  
CLP: Classification, labelling and Packaging  
REACH: Registration, Evaluation and Authorization of Chemicals  
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals  
UN: United Nations  
CAS: Chemical Abstracts Service  
DNEL: Derived No Effect Level  
DMEL: Derived Minimal Effect Level  
PNEC: Predicted No Effect Concentration  
ATE: Acute toxicity estimate  
LL50: Lethal loading, 50%  
EL50: Effect loading, 50%  
EC50: Effective Concentration 50%  
ErC50: Effective Concentration 50%, growth rate

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NOEC: No Observed Effect Concentration  
 BCF: Bio-concentration factor  
 PBT: persistent, bioaccumulative, toxic  
 vPvB: very persistent, very bioaccumulative  
 ADR: Accord européen sur le transport des marchandises dangereuses par Route  
 (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 RID: Regulations concerning the international carriage of dangerous goods by rail  
 ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
 (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation  
 intérieures)  
 EmS: Emergency Schedules  
 MFAG: Medical First Aid Guide  
 MARPOL: International Convention for the Prevention of Marine Pollution from Ships  
 IBC: Intermediate Bulk Container  
 For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>  
 EC/EEC: European Community/European Economic Community  
 EU: European Union  
 M-factor: Multiplying factor  
 IATA: International Air Transport Association  
 DGR: Dangerous Goods Regulations  
 ICAO: International Civil Aviation Organization  
 TI: Technical Instructions  
 VOC: volatile organic compound  
 For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety  
 assessment, chapter R.20 (Table of terms and abbreviations).

#### Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

| Classification     | Classification procedure |
|--------------------|--------------------------|
| Carc. 1B; H350     | Calculation method       |
| Skin Sens. 1; H317 | Calculation method       |

#### Relevant H and EUH statements (number and full text)

|      |                                          |
|------|------------------------------------------|
| H225 | Highly flammable liquid and vapour.      |
| H301 | Toxic if swallowed.                      |
| H311 | Toxic in contact with skin.              |
| H314 | Causes severe skin burns and eye damage. |
| H317 | May cause an allergic skin reaction.     |
| H331 | Toxic if inhaled.                        |
| H341 | Suspected of causing genetic defects.    |
| H350 | May cause cancer.                        |
| H370 | Causes damage to organs.                 |

#### Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product  
 properties and establishes no contract legal rights. The receiver of our product is singularly responsible for  
 adhering to existing laws and regulations. Classification according EC regulation 1272/2008 (CLP): -

Classification procedure:

Health hazards: Calculation method.

Environmental hazards: Calculation method.

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

The above information describes exclusively the safety requirements of the product and is based on our  
 present-day knowledge. The information is intended to give you advice about the safe handling of the product  
 named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be

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transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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