

**C2 904 - KLOROFORM**

Date of compilation: 02/12/2024

Version: 1

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1 Product identifier:** chloroform

CAS: 67-66-3  
EC: 200-663-8  
Index: 602-006-00-4  
REACH: 01-2119486657-20-XXXX

**Other means of identification:**

Not relevant

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

Relevant uses (Professional users): Industrial formulation  
Relevant uses (Industrial user): Industrial formulation  
Laboratory chemicals, Manufacture of substances  
Uses advised against: All uses not specified in this section or in section 7.3

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

ECP d.o.o.  
Brnčičeva 45  
1231 Ljubljana - Slovenia  
Phone: +386 1 562 05 84  
office@ecp.eu  
www.ecp.si

**1.4 Emergency telephone number:** 112**SECTION 2: HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture:****CLP Regulation (EC) No 1272/2008:**

Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.

Acute Tox. 3: Acute inhalation toxicity, Category 3, H331  
Acute Tox. 4: Acute toxicity if swallowed, Category 4, H302  
Carc. 2: Carcinogenicity, Category 2, H351  
Eye Irrit. 2: Eye irritation, Category 2, H319  
Repr. 2: Reproductive toxicity, Category 2, H361d  
Skin Irrit. 2: Skin irritation, Category 2, H315  
STOT RE 1: Specific target organ toxicity — Repeated exposure, Hazard Category 1, H372  
STOT SE 3: Specific toxicity causing drowsiness and dizziness, single exposure, Category 3, H336

**2.2 Label elements:****CLP Regulation (EC) No 1272/2008:****Danger****Hazard statements:**

H302 - Harmful if swallowed.  
H315 - Causes skin irritation.  
H319 - Causes serious eye irritation.  
H331 - Toxic if inhaled.  
H336 - May cause drowsiness or dizziness.  
H351 - Suspected of causing cancer.  
H361d - Suspected of damaging the unborn child.  
H372 - Causes damage to organs through prolonged or repeated exposure.

**Precautionary statements:**

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**SECTION 2: HAZARDS IDENTIFICATION (continued)**

P202: Do not handle until all safety precautions have been read and understood.  
P301+P312: IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.  
P302+P352: IF ON SKIN: Wash with plenty of water.  
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308+P313: IF exposed or concerned: Get medical advice/attention.  
P311: Call a POISON CENTER or doctor/physician.

**2.3 Other hazards:**

Product does not meet PBT/vPvB criteria

Endocrine-disrupting properties: The product does not meet the criteria.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.1 Substance:****Chemical description:** Inorganic substance

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

| Identification   | Chemical name/Classification   | Concentration   |
|--|--|-----------------|
| CAS: 67-66-3<br>EC: 200-663-8<br>Index: 602-006-00-4<br>REACH: 01-2119486657-20-XXXX | <b>chloroform</b> ATP ATP05<br>Regulation 1272/2008 Acute Tox. 3: H331; Acute Tox. 4: H302; Carc. 2: H351; Eye Irrit. 2: H319; Repr. 2: H361d; Skin Irrit. 2: H315; STOT RE 1: H372 - Danger | <b>&lt;100%</b> |

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

**Other information:**

| Identification                              | Specific concentration limit       |
|---|------------------------------------|
| chloroform<br>CAS: 67-66-3<br>EC: 200-663-8 | % (w/w) $\geq$ 5: STOT RE 2 - H373 |

Acute toxicity estimate for the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or as determined in accordance with Annex I to that Regulation:

| Identification                              | Acute toxicity        |              | Genus |
|---|-----------------------|--------------|-------|
| chloroform<br>CAS: 67-66-3<br>EC: 200-663-8 | LD50 oral             | 908 mg/kg    | Rat   |
|   | LD50 dermal           | Not relevant |       |
|   | LC50 inhalation gases | 9,17 mg/L    | Rat   |

**3.2 Mixture:**

Not relevant

**SECTION 4: FIRST AID MEASURES****4.1 Description of first aid measures:**

Request medical assistance immediately, showing the SDS of this product.

**By inhalation:**

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.

**By skin contact:**

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

**By eye contact:**

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**SECTION 4: FIRST AID MEASURES (continued)**

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

**By ingestion/aspiration:**

Request medical assistance immediately, showing the SDS of this product. Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. In the case of loss of consciousness do not administer anything orally unless supervised by a doctor. Rinse out the mouth and throat, as they may have been affected during ingestion. Keep the person affected at rest.

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

Acute and delayed effects are indicated in sections 2 and 11.

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

Not relevant

**SECTION 5: FIREFIGHTING MEASURES****5.1 Extinguishing media:****Suitable extinguishing media:**

Product is non-flammable under normal conditions of storage, handling and use. In the case of combustion as a result of improper handling, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.

**Unsuitable extinguishing media:**

Non-applicable

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

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

**5.3 Advice for firefighters:**

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EEC.

**Additional provisions:**

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures:****For non-emergency personnel:**

Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilled product (See section 8). Evacuate the area and keep out those who do not have protection.

**For emergency responders:**

Wear protective equipment. Keep unprotected persons away. See section 8.

**6.2 Environmental precautions:**

This product is not classified as hazardous to the environment. Keep product away from drains, surface and ground water.

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

It is recommended:

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**SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)**

Prevent the entrance of product in drains, sewers or watercourses. Absorb the spill using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. Collect the product in appropriate containers and manage it according to current legislation.

Spillages in water or sea:

Small spillages:

Contain spillage using barriers or similar equipment. Use suitable absorbents for collection and treat the waste in accordance with current regulations.

Large spillages:

If possible, contain spillage in open water using barriers or similar equipment. If this is not possible, try to control its spread and collect the product with suitable mechanical means. Always consult experts before using dispersants and make sure you have the necessary approvals if they are to be used. Treat the waste according to current regulations.

**6.4 Reference to other sections:**

See sections 8 and 13.

**SECTION 7: HANDLING AND STORAGE****7.1 Precautions for safe handling:**

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Product is non-flammable under normal conditions of storage, handling and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

PREGNANT WOMEN SHOULD NOT BE EXPOSED TO THIS PRODUCT. Transfer in designated areas that comply with the necessary safety conditions (emergency showers and eyewash stations in close proximity), using personal protection equipment, especially on the hands and face (See section 8). Limit manual transfers to small amounts only. Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

**7.2 Conditions for safe storage, including any incompatibilities:**

A.- Specific storage requirements

Store in a cool, dry, well-ventilated location

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

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

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control parameters:**

Substances whose occupational exposure limits have to be monitored in the workplace (European OEL, not country-specific legislation):

Directive (EU) 2000/39, Directive 2004/37/EC, Directive (EU) 2006/15, Directive (EU) 2009/161, Directive (EU) 2017/164, Directive (EU) 2019/1831:

| Identification  | Occupational exposure limits |       |                      |
|---|------------------------------|-------|----------------------|
|   | IOELV (8h)                   | 2 ppm | 10 mg/m <sup>3</sup> |
| chloroform <sup>(1)</sup><br>CAS: 67-66-3 EC: 200-663-8 | IOELV (STEL)                 |       |                      |

<sup>(1)</sup> Skin

**DNEL (Workers):**

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### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

| Identification                              |            | Short exposure        |              | Long exposure         |                       |
|---|------------|-----------------------|--------------|-----------------------|-----------------------|
|   |            | Systemic              | Local        | Systemic              | Local                 |
| chloroform<br>CAS: 67-66-3<br>EC: 200-663-8 | Oral       | Not relevant          | Not relevant | Not relevant          | Not relevant          |
|   | Dermal     | Not relevant          | Not relevant | 0,94 mg/kg            | Not relevant          |
|   | Inhalation | 333 mg/m <sup>3</sup> | Not relevant | 2,5 mg/m <sup>3</sup> | 2,5 mg/m <sup>3</sup> |

#### DNEL (General population):

| Identification                              |            | Short exposure |              | Long exposure          |              |
|---|------------|----------------|--------------|------------------------|--------------|
|   |            | Systemic       | Local        | Systemic               | Local        |
| chloroform<br>CAS: 67-66-3<br>EC: 200-663-8 | Oral       | Not relevant   | Not relevant | Not relevant           | Not relevant |
|   | Dermal     | Not relevant   | Not relevant | Not relevant           | Not relevant |
|   | Inhalation | Not relevant   | Not relevant | 0,18 mg/m <sup>3</sup> | Not relevant |

#### PNEC:

| Identification |              |   |                         |            |             |
|----------------|--------------|---|-------------------------|------------|-------------|
|                |              | chloroform<br>CAS: 67-66-3<br>EC: 200-663-8 | STP                     | 0,048 mg/L | Fresh water |
|                | Soil         | 0,56 mg/kg                                  | Marine water            | 0,015 mg/L |             |
|                | Intermittent | 0,133 mg/L                                  | Sediment (Fresh water)  | 0,45 mg/kg |             |
|                | Oral         | Not relevant                                | Sediment (Marine water) | 0,09 mg/kg |             |





### 8.2 Exposure controls:

#### A.- Individual protection measures, such as personal protective equipment



In accordance with the order of importance to control professional exposure (Directive 98/24/EC) it is recommended to use localized extraction in the work area as a collective protection measure to avoid exceeding the occupational exposure limits. In case of using personal protective equipment it should have CE marking in accordance with Directive 2016/425/EC. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For additional information see subsection 7.1.

All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.



#### B.- Respiratory protection

| Pictogram   | PPE   | Labelling   | CEN Standard        | Remarks  |
|---|---|---|---------------------|--|
| <br>Mandatory respiratory tract protection | Filter mask for gases and vapours (Filter type: AX)   |  | EN 405:2001+A1:2009 | Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment. |
| <br>Mandatory respiratory tract protection | Filter mask for gases and vapours (Filter type: SCBA) |  | EN 405:2001+A1:2009 | Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment. |

#### C.- Specific protection for the hands

| Pictogram  | PPE  | Labelling   | CEN Standard      | Remarks  |
|--|--|---|-------------------|--|
| <br>Mandatory hand protection | Chemical protective gloves (Material: PVA, Breakthrough time: > 480 min) |  | EN ISO 21420:2020 | Replace the gloves at any sign of deterioration. |

#### D.- Eye and face protection

| Pictogram  | PPE         | Labelling   | CEN Standard  | Remarks   |
|--|-------------|---|---|---|
| <br>Mandatory face protection | Face shield |  | EN ISO 16321-1:2022 + EN ISO 16321-3:2022<br>EN ISO 18526-(1,2,3,4):2020<br>EN ISO 18526-(1,2,3,4):2020<br>EN ISO 4007:2018 | Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing. |





#### E.- Body protection

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### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

| Pictogram   | PPE   | Labelling   | CEN Standard  | Remarks   |
|---|---|---|---|---|
| <br>Mandatory complete body protection | Disposable clothing for protection against chemical risks |  | EN 13034:2005+A1:2009<br>EN ISO 18526-(1,2,3,4):2020<br>EN ISO 13982-1:2004/A1:2010<br>ISO 6529:2013<br>EN ISO 6530:2005<br>EN 464:1994 | For professional use only. Clean periodically according to the manufacturer's instructions. |
| <br>Mandatory foot protection          | Safety footwear for protection against chemical risk      |  | EN ISO 20345:2022<br>EN 13832-1:2018  | Replace boots at any sign of deterioration.   |

**F.- Additional emergency measures**

It is advised to implement additional emergency equipments in workplaces that are particularly exposed to the product or in situations where risk assessments highlight the necessity of such equipments.

| Emergency measure   | Standards                                       | Emergency measure  | Standards                                      |
|---|---|--|--|
| <br>Emergency shower | ANSI Z358-1<br>ISO 3864-1:2011, ISO 3864-4:2011 | <br>Eyewash stations | DIN 12 899<br>ISO 3864-1:2011, ISO 3864-4:2011 |

**Skin protection**

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use.

When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: [www.kcl.de](http://www.kcl.de)).

Full contact Material: Viton®  
 Minimum layer thickness: 0,7 mm  
 Break through time: 480 min  
 Material tested: Vitoject® (KCL 890 / Aldrich Z677698, Size M)

Splash contact Material: butyl-rubber  
 Minimum layer thickness: 0,7 mm  
 Break through time: 10 min  
 Material tested: Butoject® (KCL 898)

**Respiratory protection**  
 required when vapours/aerosols are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Recommended Filter type: Filter type AX

**Environmental exposure controls:**

To comply with environmental protection regulations, it is recommended to prevent any spillage of the product and its container. For more detailed information, please refer to subsection 7.1.D.

**Volatile organic compounds:**

With regard to Directive 2010/75/EU, this product has the following characteristics:

|                           |                                   |
|---------------------------|-----------------------------------|
| V.O.C. (Supply):          | 100 % weight                      |
| V.O.C. density at 20 °C:  | 1490 kg/m <sup>3</sup> (1490 g/L) |
| Average carbon number:    | 1                                 |
| Average molecular weight: | 119,4 g/mol                       |

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**9.1 Information on basic physical and chemical properties:**

\*Not relevant due to the nature of the product, not providing information property of its hazards.

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)**

For complete information see the product datasheet.

**Appearance:**

|                          |                |
|--------------------------|----------------|
| Physical state at 20 °C: | Liquid         |
| Appearance:              | Colourless     |
| Colour:                  | Not relevant * |
| Odour:                   | Sweet          |
| Odour threshold:         | Not relevant * |

**Volatility:**

|  |                |
|--|----------------|
| Boiling point at atmospheric pressure: | 61 - 62 °C     |
| Vapour pressure at 20 °C:              | Not relevant * |
| Vapour pressure at 50 °C:              | Not relevant * |
| Evaporation rate at 20 °C:             | Not relevant * |

**Product description:**

|  |                |
|--|----------------|
| Density at 20 °C:                            | Not relevant * |
| Relative density at 20 °C:                   | Not relevant * |
| Dynamic viscosity at 20 °C:                  | Not relevant * |
| Kinematic viscosity at 20 °C:                | Not relevant * |
| Kinematic viscosity at 40 °C:                | Not relevant * |
| Concentration:                               | Not relevant * |
| pH:  | Not relevant * |
| Vapour density at 20 °C:                     | Not relevant * |
| Partition coefficient n-octanol/water 20 °C: | Not relevant * |
| Solubility in water at 20 °C:                | Not relevant * |
| Solubility properties:                       | Not relevant * |
| Decomposition temperature:                   | Not relevant * |
| Melting point/freezing point:                | -64 °C         |

**Flammability:**

|                            |                        |
|----------------------------|------------------------|
| Flash Point:               | Non Flammable (>60 °C) |
| Flammability (solid, gas): | Not relevant *         |
| Autoignition temperature:  | Not relevant *         |
| Lower flammability limit:  | Not relevant *         |
| Upper flammability limit:  | Not relevant *         |

**Particle characteristics:**

|                             |                |
|-----------------------------|----------------|
| Median equivalent diameter: | Not relevant * |
|-----------------------------|----------------|

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

|  |                |
|--|----------------|
| Explosive properties:  | Not relevant * |
| Oxidising properties:  | Not relevant * |
| Corrosive to metals:   | Not relevant * |
| Heat of combustion:  | Not relevant * |
| Aerosols-total percentage (by mass) of flammable components: | Not relevant * |

**Other safety characteristics:**

|                           |                |
|---------------------------|----------------|
| Surface tension at 20 °C: | Not relevant * |
| Refraction index:         | Not relevant * |

\*Not relevant due to the nature of the product, not providing information property of its hazards.

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**SECTION 10: STABILITY AND REACTIVITY****10.1 Reactivity:**

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 from Safety Data Sheet.

**10.2 Chemical stability:**

Chemically stable under the indicated conditions of storage, handling and use.

**10.3 Possibility of hazardous reactions:**

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

Risk of explosion with:

Ammonia  
Amines nitrogen  
oxides  
bases  
Oxygen  
alkali amides  
organic nitro compounds  
strong alkalis  
Fluorine peroxi compounds  
Alkaline earth metals  
Alkali metals with alkali compounds  
Aluminum in powder form  
Acetone with alkali compounds  
Potassium sensitive to shock  
sodium sensitive to shock

Violent reactions possible with:

phosphines  
bis(dimethylamino)dimethyl  
tin  
nonmetallic hydrogen compounds  
Powdered metals  
Light metals  
Ketones  
mineral acids  
Strong oxidizing agents semimetallic  
hydrogen compounds

**10.4 Conditions to avoid:**

Applicable for handling and storage at room temperature:

| Shock and friction | Contact with air | Increase in temperature | Sunlight       | Humidity       |
|--------------------|------------------|-------------------------|----------------|----------------|
| Not applicable     | Not applicable   | Not applicable          | Not applicable | Not applicable |

**10.5 Incompatible materials:**

| Acids              | Water          | Oxidising materials | Combustible materials | Others                        |
|--------------------|----------------|---------------------|-----------------------|-------------------------------|
| Avoid strong acids | Not applicable | Avoid direct impact | Not applicable        | Avoid alkalis or strong bases |

**10.6 Hazardous decomposition products:**

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: Mixture based on inorganic substances.

**SECTION 11: TOXICOLOGICAL INFORMATION****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008:****Dangerous health implications:**

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

A- Ingestion (acute effect):

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**SECTION 11: TOXICOLOGICAL INFORMATION (continued)**

- Acute toxicity: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.
- Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.
- B- Inhalation (acute effect):
  - Acute toxicity : Inhalation after prolonged exposure may be lethal.
  - Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- C- Contact with the skin and the eyes (acute effect):
  - Contact with the skin: Produces skin inflammation.
  - Contact with the eyes: Causes serious eye irritation.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
  - Carcinogenicity: Exposure to this product can cause cancer. For more specific information on the possible health effects see section 2.  
IARC: chloroform (2B: Possibly carcinogenic to humans)
  - Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
  - Reproductive toxicity: Suspected of damaging the unborn child.
- E- Sensitizing effects:
  - Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
  - Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- F- Specific target organ toxicity (STOT) - single exposure:

Exposure in high concentration can interfere with the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.
- G- Specific target organ toxicity (STOT)-repeated exposure:
  - Specific target organ toxicity (STOT)-repeated exposure: Serious health effects in the case of prolonged consumption, including death, serious functional disorders or morphological changes of toxicological importance.
  - Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

**Other information:**

Not relevant

**Product-specific toxicological information:**

| Acute toxicity        |                | Genus  |
|-----------------------|----------------|--------|
| LD50 oral             | 908 mg/kg      | Rat    |
| LD50 dermal           | 3980 mg/kg     | Rabbit |
| LC50 inhalation gases | 9,17 ppm (4 h) | Rat    |

**Specific toxicology information on the substances:**

| Identification                              | Acute toxicity        |            | Genus  |
|---|-----------------------|------------|--------|
| chloroform<br>CAS: 67-66-3<br>EC: 200-663-8 | LD50 oral             | 908 mg/kg  | Rat    |
|   | LD50 dermal           | 3980 mg/kg | Rabbit |
|   | LC50 inhalation gases | 9,17 mg/L  | Rat    |

**11.2 Information on other hazards:****Endocrine disrupting properties**

Endocrine-disrupting properties: The product does not meet the criteria.

**Other information**

Not relevant

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**SECTION 12: ECOLOGICAL INFORMATION**

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

**12.1 Toxicity:****Product-specific aquatic toxicity:**

| Acute toxicity |                  | Species      | Genus      |
|----------------|------------------|--------------|------------|
| LC50           | 100 mg/L (96 h)  | Not relevant | Fish       |
| EC50           | 64,9 mg/L (48 h) | Not relevant | Crustacean |
| EC50           | 560 mg/L (72 h)  | Not relevant | Algae      |

**Substance-specific aquatic toxicity:****Acute toxicity:**

| Identification                              | Concentration |                  | Species                 | Genus      |
|---|---------------|------------------|-------------------------|------------|
| chloroform<br>CAS: 67-66-3<br>EC: 200-663-8 | LC50          | 100 mg/L (48 h)  | Brachydanio rerio       | Fish       |
|   | EC50          | 64,9 mg/L (24 h) | Daphnia magna           | Crustacean |
|   | EC50          | 560 mg/L (48 h)  | Scenedesmus subspicatus | Algae      |

**Chronic toxicity:**

| Identification                           | Concentration |            | Species         | Genus      |
|--|---------------|------------|-----------------|------------|
| chloroform<br>CAS: 67-66-3 EC: 200-663-8 | NOEC          | 0,151 mg/L | Oryzias latipes | Fish       |
|  | NOEC          | 13 mg/L    | Daphnia magna   | Crustacean |

**12.2 Persistence and degradability:****Substance-specific information:**

| Identification                              | Degradability |              | Biodegradability |          |
|---|---------------|--------------|------------------|----------|
|   |               |              | Concentration    | 100 mg/L |
| chloroform<br>CAS: 67-66-3<br>EC: 200-663-8 | BOD5          | Not relevant | Period           | 14 days  |
|   | COD           | Not relevant | % Biodegradable  | 0 %      |
|   | BOD5/COD      | Not relevant |                  |          |

**12.3 Bioaccumulative potential:****Substance-specific information:**

| Identification                              | Bioaccumulation potential |      |
|---|---------------------------|------|
| chloroform<br>CAS: 67-66-3<br>EC: 200-663-8 | BCF                       | 10   |
|   | Pow Log                   | 1.97 |
|   | Potential                 | Low  |

**12.4 Mobility in soil:**

| Identification                              | Absorption/desorption |                      | Volatility |              |
|---|-----------------------|----------------------|------------|--------------|
| chloroform<br>CAS: 67-66-3<br>EC: 200-663-8 | Koc                   | Not relevant         | Henry      | Not relevant |
|   | Conclusion            | Not relevant         | Dry soil   | Not relevant |
|   | Surface tension       | 2,668E-2 N/m (25 °C) | Moist soil | Not relevant |

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

Product does not meet PBT/vPvB criteria

**12.6 Endocrine disrupting properties:**

Endocrine-disrupting properties: The product does not meet the criteria.

**12.7 Other adverse effects:**

Not described

**SECTION 13: DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods:**

| Code      | Description                                      | Waste class (Regulation (EU) No 1357/2014) |
|-----------|--|--|
| 16 03 03* | inorganic wastes containing hazardous substances | Hazardous                                  |

**Type of waste (Regulation (EU) No 1357/2014):**

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**SECTION 13: DISPOSAL CONSIDERATIONS (continued)**

HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity, HP6 Acute Toxicity, HP7 Carcinogenic, HP10 Toxic for reproduction, HP4 Irritant — skin irritation and eye damage

**Waste management (disposal and evaluation):**

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-hazardous residue. Waste should not be disposed of to drains. See paragraph 6.2.

**Regulations related to waste management:**

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

**SECTION 14: TRANSPORT INFORMATION**

**Transport of dangerous goods by land:**

With regard to ADR 2025 and RID 2025:



- 14.1 UN number or ID number:** UN1888
- 14.2 UN proper shipping name:** CHLOROFORM
- 14.3 Transport hazard class(es):** 6.1  
Labels: 6.1
- 14.4 Packing group:** III
- 14.5 Environmental hazards:** No
- 14.6 Special precautions for user**  
Special regulations: Not relevant  
Tunnel restriction code: E  
Physico-Chemical properties: see section 9  
Limited quantities: 5 L
- 14.7 Maritime transport in bulk according to IMO instruments:** Not relevant

**Transport of dangerous goods by sea:**

With regard to IMDG 42-24:



- 14.1 UN number or ID number:** UN1888
- 14.2 UN proper shipping name:** CHLOROFORM
- 14.3 Transport hazard class(es):** 6.1  
Labels: 6.1
- 14.4 Packing group:** III
- 14.5 Marine pollutant:** No
- 14.6 Special precautions for user**  
Special regulations: Not relevant  
EmS Codes: F-A, S-A  
Physico-Chemical properties: see section 9  
Limited quantities: 5 L  
Segregation group: SGG10
- 14.7 Maritime transport in bulk according to IMO instruments:** Not relevant

**Transport of dangerous goods by air:**

With regard to IATA/ICAO 2026:

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**SECTION 14: TRANSPORT INFORMATION (continued)**



- 14.1 UN number or ID number:** UN1888
- 14.2 UN proper shipping name:** CHLOROFORM
- 14.3 Transport hazard class(es):** 6.1  
Labels: 6.1
- 14.4 Packing group:** III
- 14.5 Environmental hazards:** No
- 14.6 Special precautions for user**  
Physico-Chemical properties: see section 9
- 14.7 Maritime transport in bulk according to IMO instruments:** Not relevant

**SECTION 15: REGULATORY INFORMATION**

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

- Article 95, REGULATION (EU) No 528/2012: Not relevant
- Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Not relevant
- Regulation (EU) 2019/1021 on persistent organic pollutants: Not relevant
- Regulation (EU) No 2024/590, about substances that deplete the ozone layer: Not relevant
- REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: *chloroform (67-66-3)*
- Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Not relevant

**Seveso III:**

| Section | Description | Lower-tier requirements | Upper-tier requirements |
|---------|-------------|-------------------------|-------------------------|
| H2      | ACUTE TOXIC | 50,000                  | 200,000                 |

**Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc ....):**

Contains more than 0.1 % of chloroform by weight. Sale and distribution of this mixture to the general public is prohibited.

Shall not be used in:

- ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
- tricks and jokes,
- games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

**Specific provisions in terms of protecting people or the environment:**

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

**Other legislation:**

The product could be affected by sectorial legislation

**15.2 Chemical safety assessment:**

The supplier has not carried out evaluation of chemical safety.

**SECTION 16: OTHER INFORMATION**

**Legislation related to safety data sheets:**

The SDS shall be supplied in an official language of the country where the product is placed on the market. This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (COMMISSION REGULATION (EU) 2020/878).

**Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:**

Not relevant

**Texts of the legislative phrases mentioned in section 2:**

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**SECTION 16: OTHER INFORMATION (continued)**

H331: Toxic if inhaled.  
H302: Harmful if swallowed.  
H315: Causes skin irritation.  
H319: Causes serious eye irritation.  
H351: Suspected of causing cancer.  
H336: May cause drowsiness or dizziness.  
H372: Causes damage to organs through prolonged or repeated exposure.  
H361d: Suspected of damaging the unborn child.

**Texts of the legislative phrases mentioned in section 3:**

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

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

Acute Tox. 3: H331 - Toxic if inhaled.  
Acute Tox. 4: H302 - Harmful if swallowed.  
Carc. 2: H351 - Suspected of causing cancer.  
Eye Irrit. 2: H319 - Causes serious eye irritation.  
Repr. 2: H361d - Suspected of damaging the unborn child.  
Skin Irrit. 2: H315 - Causes skin irritation.  
STOT RE 1: H372 - Causes damage to organs through prolonged or repeated exposure.

**Advice related to training:**

Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

**Principal bibliographical sources:**

<http://echa.europa.eu>  
<http://eur-lex.europa.eu>

**Abbreviations and acronyms:**

ADR: European agreement concerning the international carriage of dangerous goods by road  
IMDG: International maritime dangerous goods code  
IATA: International Air Transport Association  
ICAO: International Civil Aviation Organisation  
COD: Chemical Oxygen Demand  
BOD5: 5day biochemical oxygen demand  
BCF: Bioconcentration factor  
LD50: Lethal Dose 50  
LC50: Lethal Concentration 50  
EC50: Effective concentration 50  
LogPOW: Octanolwater partition coefficient  
Koc: Partition coefficient of organic carbon  
UFI: unique formula identifier  
IARC: International Agency for Research on Cancer

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

- END OF SAFETY DATA SHEET -

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