# SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 2015/830)

## SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

Product name : ARTHYL 24

Product code : 07000-07001.

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

Arterial fluid: bring to the skin a natural tint.

Professional use

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

Registered company name : HYGECO.

Address : 20 Boulevard de la Muette - BP 64.95142.GARGES-LES-GONESSE CEDEX.FRANCE.

Telephone : +33 (0) 1 34 53 40 60. Fax : +33 (0) 1 39 86 34 00.

info@hygeco.com

### 1.4. Emergency telephone number : +33 (0)1 45 42 59 59.

Association/Organisation : INRS / ORFILA http://www.centres-antipoison.net.

### Other emergency numbers

NPIS (National Poisons Information Service) : 111. http://www.npis.org/.

## SECTION 2 : HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

**In compliance with EC regulation No. 1272/2008 and its amendments.**

Acute oral toxicity, Category 4 (Acute Tox. 4, H302).

Acute dermal toxicity, Category 3 (Acute Tox. 3, H311).

Acute inhalation toxicity, Category 3 (Acute Tox. 3, H331).

Skin irritation, Category 2 (Skin Irrit. 2, H315).

Eye irritation, Category 2 (Eye Irrit. 2, H319).

Skin sensitisation, Category 1A (Skin Sens. 1A, H317).

Germ cell mutagenicity, Category 2 (Muta. 2, H341).

Carcinogenicity, Category 1B (Carc. 1B, H350).

Reproductive toxicity, Category 1B (Repr. 1B, H360).

Specific target organ toxicity (single exposure), Category 2 (STOT SE 2, H371).

Specific target organ toxicity (single exposure), Category 3 (STOT SE 3, H335).

This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

### 2.2. Label elements

Biocidal mixture (see section 15).

**In compliance with EC regulation No. 1272/2008 and its amendments.**

Hazard pictograms :

GHS06

GHS08

Signal Word :

DANGER

Product identifiers :

| | |
|---|---|
| EC 200-001-8 | FORMALDEHYDE |
| EC 200-659-6 | METHANOL |
| EC 215-540-4 | TETRABORATE DE DISODIUM DECAHYDRATE |

Additional labeling :

For professional use only.

Hazard statements :

| | |
|---|---|
| H302 | Harmful if swallowed. |
| H311 + H331 | Toxic in contact with skin or if inhaled. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |
| H341 | Suspected of causing genetic defects . |
| H350 | May cause cancer . |
| H360FD | May damage fertility. May damage the unborn child. |
| H371 | May cause damage to organs (if inhaled, if swallowed, in contact with skin). |

Precautionary statements - Prevention :

| | |
|---|---|
| P201 | Obtain special instructions before use. |
| P260 | Do not breathe dust/fume/gas/mist/vapours/spray. |
| P270 | Do not eat, drink or smoke when using this product. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |

Precautionary statements - Response :

| | |
|---|---|
| P301 + P330 + P331 | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. |
| 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. |
| P333 + P313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P337 + P313 | If eye irritation persists: Get medical advice/attention. |

Precautionary statements - Disposal :

| | |
|---|---|
| P501 | Dispose of contents/container in accordance with regulations |

Other information :

### 2.3. Other hazards

The mixture contains substances classified as ‘Substances of Very High Concern' (SVHC) >= 0.1% published by the European CHemicals Agency (ECHA) under article 57 of REACH: http://echa.europa.eu/fr/candidate-list-table

The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

## SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixtures

**Composition :**

| Identification | (EC) 1272/2008 | Note | % |
|---|---|---|---|
| CAS: 50-00-0<br>EC: 200-001-8<br>REACH: 01 2119488953 20<br><br>FORMALDEHYDE | GHS06, GHS05, GHS08<br>Dgr<br>Acute Tox. 4, H302<br>Acute Tox. 3, H311<br>Skin Corr. 1B, H314<br>Skin Sens. 1A, H317<br>Acute Tox. 2, H330<br>STOT SE 3, H335<br>Muta. 2, H341<br>Carc. 1B, H350 | B D<br>[1]<br>[2] | 10 <= x % < 25 |
| CAS: 67-56-1<br>EC: 200-659-6<br>REACH: 01 2119433307 44<br><br>METHANOL | GHS06, GHS08, GHS02<br>Dgr<br>Flam. Liq. 2, H225<br>Acute Tox. 3, H301<br>Acute Tox. 3, H311<br>Acute Tox. 3, H331<br>STOT SE 1, H370 | [1] | 2.5 <= x % < 10 |

| | | | |
|---|---|---|---|
| CAS: 532-32-1<br>REACH: 01-2119460683-35<br><br>SODIUM BENZOATE | GHS07<br>Wng<br>Eye Irrit. 2, H319 | | 2.5 <= x % < 10 |
| CAS: 1303-96-4<br>EC: 215-540-4<br>REACH: 01-2119490790-32<br><br>TETRABORATE DE DISODIUM DECAHYDRATE | GHS08, GHS07<br>Dgr<br>Eye Irrit. 2, H319<br>Repr. 1B, H360FD | [1]<br>[2]<br>[6] | 0 < x % < 1 |

(Full text of H-phrases: see section 16)

**Information on ingredients :**

[1] Substance for which maximum workplace exposure limits are available.

[2] Carcinogenic, mutagenic or reprotoxic (CMR) substance.

[6] Substances of very high concern (SVHC).

## SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

### 4.1. Description of first aid measures

**In the event of exposure by inhalation :**

In the event of massive inhalation, remove the person exposed to fresh air. Keep warm and at rest.

If the person is unconscious, place in recovery position. Notify a doctor in all events, to ascertain whether observation and supportive hospital care will be necessary.

If breathing is irregular or has stopped, effect mouth-to-mouth resuscitation and call a doctor.

Do not proceed with mouth-to-mouth or mouth-to-nose resuscitation.Use the appropriate equipment.

**In the event of splashes or contact with eyes :**

Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.

If there is any redness, pain or visual impairment, consult an ophthalmologist.

Remove contact lenses if the person in door and i they can be easily removed. Continue to rinse eyes under the tap water.

**In the event of splashes or contact with skin :**

Remove any soiled or splashed clothing immediately.

Watch out for any remaining product between skin and clothing, watches, shoes, etc.

In the event of an allergic reaction, seek medical attention.

If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

**In the event of swallowing :**

Do not give the patient anything orally.

Keep the person exposed at rest. Do not force vomiting.

Seek medical attention immediately, showing the label.

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

No data available.

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

No data available.

## SECTION 5 : FIREFIGHTING MEASURES

Non-flammable.

### 5.1. Extinguishing media

**Suitable methods of extinction**

In the event of a fire, use :

- sprayed water or water mist
- foam
- multipurpose ABC powder
- BC powder
- carbon dioxide (CO2)

**Unsuitable methods of extinction**

In the event of a fire, do not use :

- water jet

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

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)
- carbon dioxide (CO2)

**5.3. Advice for firefighters**

Wear a mask of protection.

## SECTION 6 : ACCIDENTAL RELEASE MEASURES

**6.1. Personal precautions, protective equipment and emergency procedures**

Consult the safety measures listed under headings 7 and 8.

**For non first aid worker**

Avoid inhaling the vapors.

Avoid any contact with the skin and eyes.

If a large quantity has been spilt, evacuate all personnel and only allow intervention by trained operators equipped with safety apparatus.

**For first aid worker**

First aid workers will be equipped with suitable personal protective equipment (See section 8).

**6.2. Environmental precautions**

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

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

If the ground is contaminated, once the product has been recovered by sponging with an inert and non-combustible absorbent material, wash the contaminated area in plenty of water.

Clean preferably with a detergent, do not use solvents.

**6.4. Reference to other sections**

Refer to Section 7 - Handling and storage.

Refer to Section 8 - Exposure Controls and Personal Protection.

Refer to Section 13 - Disposal considerations.

## SECTION 7 : HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

Individuals with a history of skin sensitisation should not, under any circumstance, handle this mixture.

**7.1. Precautions for safe handling**

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

Ensure that there is adequate ventilation, especially in confined areas.

**Fire prevention :**

Handle in well-ventilated areas.

Prevent access by unauthorised personnel.

**Recommended equipment and procedures :**

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Do not inhale vapours.

Provide vapor extraction at the emission source and also general ventilation of the premises.

In all cases, recover emissions at source.

Avoid skin and eye contact with this mixture.

Avoid exposure - obtain special instructions before use.

Packages which have been opened must be reclosed carefully and stored in an upright position.

**Prohibited equipment and procedures :**

No smoking, eating or drinking in areas where the mixture is used.

### 7.2. Conditions for safe storage, including any incompatibilities

No data available.

**Storage**

Keep the container tightly closed in a dry, well-ventilated place.

Keep away from food and drink, including those for animals.

**Packaging**

Always keep in packaging made of an identical material to the original.

### 7.3. Specific end use(s)

## SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

**Occupational exposure limits :**

- European Union (2017/2398, 2017/164, 2009/161, 2006/15/CE, 2000/39/CE, 98/24/CE) :

| CAS | VME-mg/m3 : | VME-ppm : | VLE-mg/m3 : | VLE-ppm : | Notes : |
|---|---|---|---|---|---|
| 67-56-1 | 260 | 200 | - | - | Peau |

- France (INRS - ED984 :2016) :

| CAS | VME-ppm : | VME-mg/m3 : | VLE-ppm : | VLE-mg/m3 : | Notes : | TMP No : |
|---|---|---|---|---|---|---|
| 50-00-0 | 0.5 | - | 1 | - | C3 | 43 |
| 67-56-1 | 200 | 260 | 1000 | 1300 | (12) | 84 |
| 1303-96-4 | - | 5 | - | - | R2 | - |

- UK / WEL (Workplace exposure limits, EH40/2005, 2011) :

| CAS | TWA : | STEL : | Ceiling : | Definition : | Criteria : |
|---|---|---|---|---|---|
| 50-00-0 | 2 ppm<br>2,5 mg/m³ | 2 ppm<br>2,5 mg/m³ | | | |
| 67-56-1 | 200 ppm<br>266 mg/m³ | 250 ppm<br>333 mg/m³ | | Sk | |
| 1303-96-4 | 5 mg/m3 | - | - | - | - |

**Derived no effect level (DNEL) or derived minimum effect level (DMEL):**

TETRABORATE DE DISODIUM DECAHYDRATE (CAS: 1303-96-4)

**Final use:** **Workers.**

Exposure method: Dermal contact.
Potential health effects: Long term systemic effects.
DNEL : 599.6 mg/kg body weight/day

Exposure method: Inhalation.
Potential health effects: Short term local effects.
DNEL : 22.3 mg of substance/m3

Exposure method: Inhalation.
Potential health effects: Long term local effects.
DNEL : 22.3 mg of substance/m3

Exposure method: Inhalation.
Potential health effects: Long term systemic effects.
DNEL : 12.76 mg of substance/m3

**Final use:** **Consumers.**

Exposure method: Ingestion.
Potential health effects: Short term systemic effects.
DNEL : 1.51 mg/kg body weight/day

Exposure method: Ingestion.
Potential health effects: Long term systemic effects.
DNEL : 1.51 mg/kg body weight/day

Exposure method: Dermal contact.
Potential health effects: Long term systemic effects.

| | |
|---|---|
| DNEL : | 303.5 mg/kg body weight/day |
| Exposure method: | Inhalation. |
| Potential health effects: | Short term local effects. |
| DNEL : | 22.3 mg of substance/m3 |
| Exposure method: | Inhalation. |
| Potential health effects: | Long term local effects. |
| DNEL : | 22.3 mg of substance/m3 |
| Exposure method: | Inhalation. |
| Potential health effects: | Long term systemic effects. |
| DNEL : | 6.5 mg of substance/m3 |

METHANOL (CAS: 67-56-1)

| | |
|---|---|
| **Final use:** | **Workers.** |
| Exposure method: | Dermal contact. |
| Potential health effects: | Short term systemic effects. |
| DNEL : | 40 mg/kg body weight/day |
| Exposure method: | Dermal contact. |
| Potential health effects: | Long term systemic effects. |
| DNEL : | 40 mg/kg body weight/day |
| Exposure method: | Inhalation. |
| Potential health effects: | Short term systemic effects. |
| DNEL : | 260 mg of substance/m3 |
| Exposure method: | Inhalation. |
| Potential health effects: | Short term local effects. |
| DNEL : | 260 mg of substance/m3 |
| Exposure method: | Inhalation. |
| Potential health effects: | Long term systemic effects. |
| DNEL : | 260 mg of substance/m3 |
| Exposure method: | Inhalation. |
| Potential health effects: | Long term local effects. |
| DNEL : | 260 mg of substance/m3 |
| **Final use:** | **Consumers.** |
| Exposure method: | Ingestion. |
| Potential health effects: | Short term systemic effects. |
| DNEL : | 8 mg/kg body weight/day |
| Exposure method: | Ingestion. |
| Potential health effects: | Long term systemic effects. |
| DNEL : | 8 mg/kg body weight/day |
| Exposure method: | Dermal contact. |
| Potential health effects: | Short term systemic effects. |
| DNEL : | 8 mg/kg body weight/day |
| Exposure method: | Dermal contact. |
| Potential health effects: | Long term systemic effects. |
| DNEL : | 8 mg/kg body weight/day |
| Exposure method: | Inhalation. |
| Potential health effects: | Short term systemic effects. |

DNEL : 50 mg of substance/m3

Exposure method: Inhalation.
Potential health effects: Long term local effects.
DNEL : 50 mg of substance/m3

Exposure method: Inhalation.
Potential health effects: Long term systemic effects.
DNEL : 50 mg of substance/m3

Exposure method: sons Information Service) : 111. http://www.npis.org/.
Potential health effects: Short term local effects.
DNEL : 50 mg of substance/m3

FORMALDEHYDE ...% (CAS: 50-00-0)

**Final use:** **Workers.**
Exposure method: Dermal contact.
Potential health effects: Long term systemic effects.
DNEL : 240 mg/kg body weight/day

Exposure method: Dermal contact.
Potential health effects: Long term local effects.
DNEL : 0.037 mg of substance/cm2

Exposure method: Inhalation.
Potential health effects: Short term local effects.
DNEL : 1 mg of substance/m3

Exposure method: Inhalation.
Potential health effects: Long term systemic effects.
DNEL : 9 mg of substance/m3

Exposure method: Inhalation.
Potential health effects: Long term local effects.
DNEL : 0.5 mg of substance/m3

**Final use:** **Consumers.**
Exposure method: Ingestion.
Potential health effects: Long term systemic effects.
DNEL : 4.1 mg/kg body weight/day

Exposure method: Dermal contact.
Potential health effects: Long term systemic effects.
DNEL : 102 mg/kg body weight/day

Exposure method: Dermal contact.
Potential health effects: Long term local effects.
DNEL : 0.012 mg of substance/cm2

Exposure method: Inhalation.
Potential health effects: Long term systemic effects.
DNEL : 3.2 mg of substance/m3

Exposure method: Inhalation.
Potential health effects: Long term local effects.
DNEL : 0.1 mg of substance/m3

**Predicted no effect concentration (PNEC):**

TETRABORATE DE DISODIUM DECAHYDRATE (CAS: 1303-96-4)
Environmental compartment: Soil.

PNEC : 5.4 mg/kg

Environmental compartment: Fresh water.
PNEC : 2.02 mg/l

Environmental compartment: Sea water.
PNEC : 2.02 mg/l

Environmental compartment: Intermittent waste water.
PNEC : 13.7 mg/l

Environmental compartment: Waste water treatment plant.
PNEC : 10 mg/l

METHANOL (CAS: 67-56-1)
Environmental compartment: Soil.
PNEC : 23.5 mg/kg

Environmental compartment: Fresh water.
PNEC : 154 mg/l

Environmental compartment: Sea water.
PNEC : 15.4 mg/l

Environmental compartment: Intermittent waste water.
PNEC : 1540 mg/l

Environmental compartment: Fresh water sediment.
PNEC : 570.4 mg/kg

Environmental compartment: Waste water treatment plant.
PNEC : 100 mg/l

FORMALDEHYDE ...% (CAS: 50-00-0)
Environmental compartment: Soil.
PNEC : 0.21 mg/kg

Environmental compartment: Fresh water.
PNEC : 0.47 mg/l

Environmental compartment: Sea water.
PNEC : 0.47 mg/l

Environmental compartment: Intermittent waste water.
PNEC : 4.7 mg/l

Environmental compartment: Fresh water sediment.
PNEC : 2.44 mg/kg

Environmental compartment: Marine sediment.
PNEC : 2.44 mg/kg

Environmental compartment: Waste water treatment plant.
PNEC : 0.19 mg/l

**8.2. Exposure controls**

**Personal protection measures, such as personal protective equipment**

Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

**- Eye / face protection**

Avoid contact with eyes.

Before handling, wear safety goggles with protective sides accordance with standard EN166.

In the event of high danger, protect the face with a face shield.

Prescription glasses are not considered as protection.

Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours.

Provide eyewash stations in facilities where the product is handled constantly.

**- Hand protection**

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Type of gloves recommended :

- Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))
- Neoprene® (Polychloroprene)

**- Body protection**

Avoid skin contact.

Wear suitable protective clothing.

Suitable type of protective clothing :

Wear suitable protective clothing and, in particular, an apron and boots. These items of clothing shall be maintained in good condition and cleaned after use.

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

**- Respiratory protection**

Avoid breathing vapours.

If the ventilation is insufficient, wear appropriate breathing apparatus.

When workers are confronted with concentrations that are above occupational exposure limits, they must wear a suitable, approved, respiratory protection device.

Anti-gas and vapour filter(s) (Combined filters) in accordance with standard EN14387 :

- A1 (Brown)
- A2 (Brown)
- A3 (Brown)

## SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

**General information :**

| | |
|---|---|
| Physical state : | Fluid liquid. |
| Color: | Red |
| Odour: | aldehyd |

**Important health, safety and environmental information**

| | |
|---|---|
| pH : | Not relevant. |
| Boiling point/boiling range : | Not specified. |
| Flash Point Interval : | 60°C < FP <= 93°C |
| Vapour pressure (50°C) : | Not relevant. |
| Density : | = 1 |
| Water solubility : | Soluble. |
| Melting point/melting range : | Not specified. |
| Self-ignition temperature : | Not specified. |
| Decomposition point/decomposition range : | Not specified. |

### 9.2. Other information

No data available.

## SECTION 10 : STABILITY AND REACTIVITY

### 10.1. Reactivity

The mixture is stable under handling and storage normal conditions.

### 10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

### 10.3. Possibility of hazardous reactions

When exposed to high temperatures, the mixture can release hazardous decomposition products, such as carbon monoxide and dioxide, fumes and nitrogen oxide.

### 10.4. Conditions to avoid

Avoid :

- heating
- heat

### 10.5. Incompatible materials

The oxidizing agents

### 10.6. Hazardous decomposition products

The thermal decomposition may release/form :

- carbon monoxide (CO)
- carbon dioxide (CO2)
- hydrogen chloride (HCl)

## SECTION 11 : TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

Harmful if swallowed.

Toxic in contact with the skin.

Toxic by inhalation.

May cause irreversible damage to the skin; namely inflammation of the skin or the formation of erythema and eschar or oedema following exposure up to four hours.

May have reversible effects on the eyes, such as eye irritation which is totally reversible by the end of observation at 21 days.

Splashes in the eyes may cause irritation and reversible damage

Respiratory tract irritation may occur, together with symptoms such as coughing, choking and breathing difficulties.

May cause an allergic reaction by skin contact.

Presumed human carcinogen.

Cause for concern owing to the possibility that it may induce heritable mutations in the germ cells of humans.

Presumed human reproductive toxicant.

May damage fertility and the unborn child.

May cause damage to organs.

#### 11.1.1. Substances

**Acute toxicity :**

FORMALDEHYDE ...% (CAS: 50-00-0)

| | |
|---|---|
| Oral route : | LD50 = 640 mg/kg<br>Species : Rat |
| Dermal route : | LD50 = 270 mg/kg<br>Species : Rabbit |
| Inhalation route (Gas) : | LC50 = 463 ppm<br>Duration of exposure : 4 h |

#### 11.1.2. Mixture

**Acute toxicity :**

Acute Tox 4. H302 : Harmful if swalled.

Acute Tox 2 H311 : toxic in contact with skin.

Acute Tox 2 H331 : Toxic if inhaled.

**Skin corrosion/skin irritation :**

Causes skin irritation. Skin Irrit 2. H315.

**Serious damage to eyes/eye irritation :**

Eye Irrit 2 : cause serious eye irritation. H319.

**Respiratory or skin sensitisation :**

May cause an allergic skin reaction. Skin sensitisation H317.

**Germ cell mutagenicity :**

Muta.2. H341 : Suspected of causing genetic defects.

**Carcinogenicity :**

Carc.1B. H350 : May cause cancer.

**Reproductive toxicant :**

Repr.1 H360 FD : May damage fertility. May damage the unborn child.

**Specific target organ systemic toxicity - single exposure :**

STOT SE 2 H371.

STOT SE 3. H335 : May cause respiratory irritation.

**Specific target organ systemic toxicity - repeated exposure :**

On the basis of the available data, classification criteria are not reached.

**Aspiration hazard :**

On the basis of the available data, classification criteria are not reached.

## SECTION 12 : ECOLOGICAL INFORMATION

### 12.1. Toxicity

#### 12.1.1. Substances

FORMALDEHYDE ...% (CAS: 50-00-0)

| | |
|---|---|
| Fish toxicity : | LC50 = 41 mg/l<br>Species : Brachydanio rerio<br>Duration of exposure : 96 h |
| Crustacean toxicity : | EC50 = 5.8 mg/l<br>Species : Daphnia pulex<br>Duration of exposure : 48 h |
| Algae toxicity : | ECr50 = 5.8 mg/l<br>Species : Desmodesmus subspicatus<br>Duration of exposure : 72 h |

#### 12.1.2. Mixtures

The mixture is not classified dangerous for environnement in accordance with the CLP1272/2008 rules.

### 12.2. Persistence and degradability

#### 12.2.1. Substances

METHANOL (CAS: 67-56-1)

| | |
|---|---|
| Biodegradability : | Rapidly degradable. |

FORMALDEHYDE ...% (CAS: 50-00-0)

| | |
|---|---|
| Biodegradability : | Rapidly degradable. |

### 12.3. Bioaccumulative potential

No data available.

### 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment

No data available.

### 12.6. Other adverse effects

No data available.

## SECTION 13 : DISPOSAL CONSIDERATIONS

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

**13.1. Waste treatment methods**

Do not pour into drains or waterways.

**Waste :**

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

**Soiled packaging :**

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

## SECTION 14 : TRANSPORT INFORMATION

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2017 - IMDG 2016 - ICAO/IATA 2017).

**14.1. UN number**

2810

**14.2. UN proper shipping name**

UN2810=TOXIC LIQUID, ORGANIC, N.O.S.

(formaldehyde ...%)

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

- Classification :


6.1

**14.4. Packing group**

III

**14.5. Environmental hazards**

-

**14.6. Special precautions for user**

| ADR/RID | Class | Code | Pack gr. | Label | Ident. | LQ | Provis. | EQ | Cat. | Tunnel |
|---|---|---|---|---|---|---|---|---|---|---|
| | 6.1 | T1 | III | 6.1 | 60 | 5 L | 274 614 | E1 | 2 | E |

| IMDG | Class | 2°Label | Pack gr. | LQ | EMS | Provis. | EQ |
|---|---|---|---|---|---|---|---|
| | 6.1 | - | III | 5 L | F-A,S-A | 223 274 | E1 |

| IATA | Class | 2°Label | Pack gr. | Passager | Passager | Cargo | Cargo | note | EQ |
|---|---|---|---|---|---|---|---|---|---|
| | 6.1 | - | III | 655 | 60 L | 663 | 220 L | A3 A4 A137 | E1 |
| | 6.1 | - | III | Y642 | 2 L | - | - | A3 A4 A137 | E1 |

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.

For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

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

No data available.

## SECTION 15 : REGULATORY INFORMATION

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

**- Classification and labelling information included in section 2:**

The following regulations have been used:

- Regulation (EC) n°1272/2008 and adaptations.

**- Container information:**

No data available.

**Usage restrictions apply to the product : See annex XVII of EC regulation No. 1907/2006.**

For professional users only.

**- Particular provisions :**

No data available.

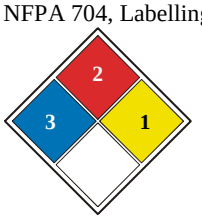
**- Labelling for biocidal products (Regulation 1896/2000, 1687/2002, 2032/2003, 1048/2005, 1849/2006, 1451/2007 and Directive 98/8/EC) :**

| Name | CAS | % | Product-type |
|---|---|---|---|
| FORMALDEHYDE ...% | 50-00-0 | 231.30 g/kg | 22 |

Product-type 22 : Embalming and taxidermist fluids.

**- Standardised American system for the identification of hazards presented by the product in view of emergency procedures (NFPA 704) :**

NFPA 704, Labelling: Health=3 Inflammability=2 Instability/Reactivity=1 Specific Risk=none




**15.2. Chemical safety assessment**

No data available.

## SECTION 16 : OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

UPDATING :

- SECTION 2
- SECTION 3
- SECTION 11

**Wording of the phrases mentioned in section 3 :**

| | |
|---|---|
| H225 | Highly flammable liquid and vapour. |
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H311 | Toxic in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H330 | Fatal if inhaled. |
| H331 | Toxic if inhaled. |
| H335 | May cause respiratory irritation. |
| H341 | Suspected of causing genetic defects . |
| H350 | May cause cancer . |
| H360FD | May damage fertility. May damage the unborn child. |
| H370 | Causes damage to organs . |

**Abbreviations :**

DNEL : Derived No-Effect Level

PNEC : Predicted No-Effect Concentration

CMR: Carcinogenic, mutagenic or reprotoxic.

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

ICAO : International Civil Aviation Organisation
RID : Regulations concerning the International carriage of Dangerous goods by rail.
GHS06 : Skull and crossbones
GHS08 : Health hazard
PBT: Persistent, bioaccumulable and toxic.
vPvB : Very persistent, very bioaccumulable.
SVHC : Substances of very high concern.