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 26 Product code: 07020-07021.

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

Arterial fluid: avoid the drying, brings a natural tint. 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.

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

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

Flammable liquid, Category 3 (Flam. Liq. 3, H226).

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

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

Acute inhalation toxicity, Category 2 (Acute Tox. 2, H330).

Skin corrosion, Category 1B (Skin Corr. 1B, H314).

Serious eye damage, Category 1 (Eye Dam. 1, H318).

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 1 (STOT SE 1, H370).

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

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:









GHS08

GHS02

GHS05

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:

H226 Flammable liquid and vapour.

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.

H330 Fatal 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 (if inhaled, if swallowed, in contact with skin).

Precautionary statements - Prevention:

P201 Obtain special instructions before use.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash hands thoroughly after handling.

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.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse

skin with water [or shower].

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.

IF exposed or concerned: Get medical advice/attention.

P310 Immediately call a POISON CENTER or a doctor.

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

P363 Wash contaminated clothing before reuse.

Precautionary statements - Disposal:

P501 Dispose of contents/container in accordance with regulations

2.3. Other hazards

P308 + P313

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	GHS06, GHS05, GHS08	B D	25 <= x % < 50
EC: 200-001-8	Dgr	[1]	
REACH: 01 2119488953 20	Acute Tox. 4, H302	[2]	
	Acute Tox. 3, H311		
FORMALDEHYDE	Skin Corr. 1B, H314		
	Skin Sens. 1A, H317		
	Acute Tox. 2, H330		
	STOT SE 3, H335		
	Muta. 2, H341		
	Carc. 1B, H350		

CAS: 67-56-1	GHS06, GHS08, GHS02	[1]	10 <= x % < 25
EC: 200-659-6	Dgr		
REACH: 01 2119433307 44	Flam. Liq. 2, H225		
	Acute Tox. 3, H301		
METHANOL	Acute Tox. 3, H311		
	Acute Tox. 3, H331		
	STOT SE 1, H370		
INDEX: 603-053-00-3	GHS07	[1]	1 <= x % < 2.5
CAS: 107-41-5	Wng		
EC: 203-489-0	Eye Irrit. 2, H319		
REACH: 01-21195639582-35	Skin Irrit. 2, H315		
2-METHYLPENTANE-2,4-DIOL			
CAS: 1303-96-4	GHS08, GHS07	[1]	0 <= x % < 1
EC: 215-540-4	Dgr	[2]	
REACH: 01-2119490790-32	Eye Irrit. 2, H319	[6]	
	Repr. 1B, H360FD		
TETRABORATE DE DISODIUM			
DECAHYDRATE			

(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.

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.

Regardless of the initial state, refer the patient to an ophthalmologist and show him the label.

In the event of splashes or contact with skin:

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.

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

Flammable.

Chemical powders, carbon dioxide and other extinguishing gas are suitable for small fires.

5.1. Extinguishing media

Keep packages near the fire cool, to prevent pressurised containers from bursting.

Suitable methods of extinction

In the event of a fire, use:

- sprayed water or water mist

- water with AFFF (Aqueous Film Forming Foam) additive
- halon
- foam
- multipurpose ABC powder
- BC powder
- carbon dioxide (CO2)

Prevent the effluent of fire-fighting measures from entering drains or waterways.

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)
- hydrogen chloride (HCl)

5.3. Advice for firefighters

Fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

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

Because of the organic solvents contained in the mixture, eliminate sources of ignition and ventilate the area.

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.

Keep packages tightly closed and away from sources of heat, sparks and naked flames.

Do not use tools which may produce sparks. Do not smoke.

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.

Also provide breathing apparatus for certain short tasks of an exceptional nature and for emergency interventions.

In all cases, recover emissions at source.

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

Keep the container in a well ventilated place

Storage

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

Keep well away from all sources of ignition, heat and direct sunlight.

Avoid accumulation of electrostatic charges.

The floor must be impermeable and form a collecting basin so that, in the event of an accidental spillage, the liquid cannot spread beyond this area.

Packaging

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

7.3. Specific end use(s)

Please refer to paragraph 1 concerning the use of the product.

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
107-41-5	-	-	25	125	-	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	2 ppm			
	2,5 mg/m ³	2,5 mg/m ³			
67-56-1	200 ppm	250 ppm		Sk	
	266 mg/m ³	333 mg/m ³			
107-41-5	25 ppm	25 ppm			
	123 mg/m ³	123 mg/m ³			
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:Exposure method:
Workers.
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

2-METHYLPENTANE-2,4-DIOL (CAS: 107-41-5)

Final use: Workers.
Exposure method: Dermal contact.

Potential health effects: Long term systemic effects.
DNEL: 2 mg/kg body weight/day

Exposure method: Inhalation.

Potential health effects: Long term systemic effects.

DNEL: 14 mg of substance/m3

Exposure method: Inhalation.

Potential health effects: Long term local effects.

DNEL: 49 mg of substance/m3

Exposure method: Inhalation.

Potential health effects: Short term local effects.

DNEL: 98 mg of substance/m3

Final use: Consumers.

Exposure method: Ingestion.

Potential health effects:

DNEL:

Long term systemic effects.

1 mg/kg body weight/day

Exposure method: Dermal contact.

Potential health effects: Long term systemic effects.

DNEL: 1 mg/kg body weight/day

Exposure method: Inhalation.

Workers.

Potential health effects: Long term systemic effects. DNEL: 3.5 mg of substance/m3

Exposure method: Inhalation.

Potential health effects: Long term local effects. DNEL: 25 mg of substance/m3

Exposure method: Inhalation.

Potential health effects: Short term local effects. DNEL: 49 mg of substance/m3

METHANOL (CAS: 67-56-1)

Final use: 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.

Ingestion. Exposure method:

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: Inhalation.

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

Intermittent waste water. Environmental compartment:

PNEC: 13.7 mg/l

Environmental compartment: Waste water treatment plant.

PNEC: 10 mg/l

2-METHYLPENTANE-2,4-DIOL (CAS: 107-41-5)

Environmental compartment: Soil.

PNEC: 0.11 mg/kg

Environmental compartment: Fresh water. PNEC: 0.429 mg/l

Environmental compartment: Sea water. 0.0429 mg/l PNEC:

Environmental compartment: Fresh water sediment.

PNEC: 1.79 mg/kg

Marine sediment. Environmental compartment: PNEC: 0.179 mg/kg

Environmental compartment: Waste water treatment plant.

PNEC: 20 mg/l

METHANOL (CAS: 67-56-1)

PNEC:

Environmental compartment: Soil. PNEC:

23.5 mg/kg

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

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.

15.4 mg/l

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.

- 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:

- Natural latex
- Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))
- PVC (polyvinyl chloride)
- Butyl Rubber (Isobutylene-isoprene copolymer)

- 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.

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)
- A3 (Brown)

В

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 relevant.

Flash Point Interval : $23^{\circ}\text{C} \le \text{FP} \le 55^{\circ}\text{C}$

Vapour pressure (50°C): Not relevant.

Density: = 1
Water solubility: Soluble.
Melting point/melting range: Not relevant.
Self-ignition temperature: Not relevant.
Decomposition point/decomposition range: Not relevant.

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

Any apparatus likely to produce a flame or to have a metallic surface at high temperature (burners, electric arcs, furnaces etc.) must not be allowed on the premises.

Avoid:

- accumulation of electrostatic charges.
- heating
- heat
- flames and hot surfaces
- frost

10.5. Incompatible materials

The oxidizing agents

10.6. Hazardous decomposition products

The thermal decomposition may release/form:

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

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Harmful if swallowed.

Toxic in contact with the skin.

Fatal by inhalation.

May cause irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis, following exposure between three minutes and one hour.

Corrosive reactions are typified by ulcers, bleeding, bloody scabs, and, by the end of observation at 14 days, by discolouration due to blanching of the skin, complete areas of alopecia, and scars.

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.

Causes damage to organs.

11.1.1. Substances

Acute toxicity:

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

Oral route : LD50 = 640 mg/kg

Species: Rat

Dermal route : LD50 = 270 mg/kg

Species : Rabbit

Inhalation route (Gas): LC50 = 463 ppm

Duration of exposure: 4 h

11.1.2. Mixture

Acute toxicity:

Acute Tox 4. H302: Harmful if swalled.

Acute Tox 3 H311.

Acute Tox 2 H330: fatal if inhaled.

Skin corrosion/skin irritation:

Mixture classified H314: Causes severe skin burns and eye damage.

Serious damage to eyes/eye irritation:

Eye Dam 1. H318: Causes serious eye damage.

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 3. H335: May cause respiratory irritation. STOT SE 2. H371: May cause damage to organs.

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

Species : Brachydanio rerio Duration of exposure : 96 h

Crustacean toxicity: EC50 = 5.8 mg/l

Species : Daphnia pulex Duration of exposure : 48 h

Algae toxicity: ECr50 = 5.8 mg/l

Species: Desmodesmus subspicatus

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

1992

14.2. UN proper shipping name

UN1992=FLAMMABLE LIQUID, TOXIC, N.O.S.

(methanol, formaldehyde ...%)

14.3. Transport hazard class(es)

- Classification :





3+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
	3	FT1	III	3+6.1	36	5 L	274	E1	3	D/E

IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ
	3	6.1	III	5 L	F-E,S-D	223 274	E1

IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ
	3	6.1	III	355	60 L	366	220 L	A3	E1
	3	6.1	III	Y343	2 L	-	-	A3	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	252 g/kg	22

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

NFPA 704, Labelling: Health=4 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:

To be translated (XML)

To be translated (XML)

Wording of the phrases mentioned in section ${\bf 3}$:

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.
H315	Causes skin irritation.
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.

GHS02 : Flame GHS05 : Corrosion

GHS06: Skull and crossbones

GHS08: Health hazard

PBT: Persistent, bioaccumulable and toxic. vPvB: Very persistent, very bioaccumulable. SVHC: Substances of very high concern.