

ATB Internal standard (SET A)

Code: ATB108

Date of issue: 20/05/2021

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Version: 1.0

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

1.1 Product identifier

Trade name of the substance/mixture

ATB Internal standard (SET A)

Unique Formula Identifier

UFI: EWA3-DODP-E00C-2YPJ

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

Laboratory analysis CE-IVD kit

1.3 Details of the supplier of the safety data sheet

COQUA LAB S.R.L.

Corso Vittorio Emanuele II 44

10123-Torino- (TORINO)ITALY

Tel. 011-0161875

Supplier of SDS: info@coqualab.it

1.4 Emergency telephone number

Refer to national poison centres open 24 hours a day.

SECTION 2: Hazards identification

This MSDS is about a mixture classified as hazardous.

No experimental studies have been performed on the mixture as such. The information currently available is given for the components whose specific properties are known and which are listed at section 3 of this MSDS. The components for which specific test data are not known are not mentioned.

2.1 Classification of the substance or mixture

Classification of the substance/mixture (Regulation (EC) No 1272/2008)

Flam. Liq. 3; H226, Acute Tox. 3; H301, Acute Tox. 3; H311, Acute Tox. 3; H331, STOT SE 1; H370

2.2 Label elements

Label elements: pictogram, signal Word code(s) (Regulation (EC) No 1272/2008)



Danger

Label elements: hazard statement code(s) Regulation (EC) No 1272/2008)

H331, H311, H301, H226, H370

Label elements: precautionary statement code(s) (Regulation (EC) No 1272/2008)

P210, P260, P264, P270, P280, P311

2.3 Other hazards**Indication of Hazards**

Liquid matter.

Mixture flammable at temperatures higher than ambient temperature (> 23 °C). Fire hazard.

The mixture is toxic by accidental ingestion. Poisoning hazard, possibly with fatal consequences. The damage is a function of the quantity ingested.

The mixture is toxic by skin contact. Poisoning hazard, possibly with fatal consequences. The damage is a function of the quantity absorbed.

The mixture is toxic by inhalation of vapours. Poisoning hazard, possibly with fatal consequences. The damage is a function of the quantity taken in.

The mixture is toxic for target organs. May cause disorders, with non fatal consequences. The effects on human health may be severe and irreversible, albeit non lethal, even after a single exposure.

Acute and chronic effects on organs and systems: clinical symptoms in target organism

For an exact identification of the organs subject to the action of the substances/mixtures contained in the product, the identification of symptoms and a proper knowledge of the severity of damages to people's health and the environment, see the information on the individual components.

methanol

CAS:67-56-1 EC:200-659-6 INDEX:603-001-00-X REACH:01-2119433307-44-XXXX

Acute dose-dependent effects.

Cute: irritation, delipidization

Nervous system: depression, optical neuritis, headache, intoxication, vertigo, coma

Eyes: irritation

Prime airway: irritation

Lungs: irritation

Digestive system: if swallowed abdominal colic, vomiting

Chronic effects.

Cute: Irritation, Desquamation

Nervous system: headache, insomnia, vertigo, optical neuritis

Eyes: irritation

SECTION 3: Composition/information on ingredients**3.1 Substances**

Data not applicable.

3.2 Mixtures

The mixture is made of the following hazardous substances/mixtures, dealt with in Annex VI to Regulation (EC) 1272/2008 and its subsequent amendments and additions, and classified on the basis of Annex I to the same Regulation (EC) 1272/2008 subsequent amendments and additions.

methanol

CAS:67-56-1 EC:200-659-6 INDEX:603-001-00-X REACH:01-2119433307-44-XXXX

Table 3 Reg. 1272/2008: Flam. Liq. 2; H225, Acute Tox. 3; H301+H311+H331, STOT SE 1; H370

STOT SE 1; H370: C ≥ 10 %; STOT SE 2; H371: 3 % ≤ C < 10 %

Concentration: 48.0000-53.0000%

The complete text of the hazard statements is given in section 16 of this data sheet.

SECTION 4: First aid measures

4.1 Description of first aid measures

Routes of inhalation: immediate treatment

INHALATION: in case of exposure to mists or vapours, move victim to a clean environment and seek medical assistance. Administer oxygen and ventilate, if necessary. Do not engage in operations that might endanger the rescuers.

Contact with skin: immediate treatment

SKIN CONTACT: remove contaminated clothing, wash skin with abundant water and soap.

Contact with skin: successive treatment

Seek medical assistance if symptoms are observed.

Contact with skin: maneuvers or substances to avoid

Do not use solvents.

Contact with eyes: immediate treatment

EYE CONTACT: rinse immediately with abundant water or physiological solution, with the lid open, for at least 15 minutes.

Contact with eyes: successive treatment

Seek medical assistance if symptoms are observed.

Ingestion: immediate treatment

INGESTION: medical assistance is indispensable. Induce vomiting. Administer activated carbon.

Ingestion: maneuvers or substances to avoid

Do not ever induce vomiting and do not administer anything by mouth if the person is unconscious or has difficulties breathing.

4.2 Most important symptoms and effects, both acute and delayed

For the exact identification of organs covered by the action of the substances / mixtures that compose the product, identification of symptoms, and the proper knowledge of the severity of damage to health or the environment, it is necessary to refer to the information given to each component in section 2.3.

4.3 Indication of any immediate medical attention and special treatment needed

Seek immediate medical assistance. Contact a Poison Centre for more detailed information.

Data on substances/mixtures in low concentrations may be absent in the MSDS. In doubt, see the information on the individual substances (see section 3 of this data sheet).

People who have come into contact with the material may have been affected, even if no symptoms are evident.

Recommend a medical examination.

Maintain the vital functions, if necessary.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

General informations

If possible, eliminate source of flammable mixture.
Remove containers from fire zone, if this can be done without risk.
Confine and collect quench water for subsequent disposal.
In a fire, keep upwind to avoid smoke, fumes, vapours.

Suitable extinguishing media

Use the following extinguishing media: carbon dioxide, foams, water (better if nebulised), chemical powders or sand (for small fires).

Extinguishing media which must not used for safety reasons

None.

5.2 Special hazards arising from the substance or mixture

If possible, move away the containers of the material from the fire zone or cool them, as the material may release toxic fumes if exposed to thermal radiation or directly involved.
The vapours may cause dizziness, fainting or asphyxiation.

5.3 Advice for firefighters

Wear:

- gas mask with self-contained respirator
- full equipment, consisting of helmet with visor and neck protection, fire-proof coat and pants with bands around arms, legs and waist.

For all matters not discussed in this paragraph, see the protection equipment recommended in section 8 of this MSDS.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures**For non-emergency personnel**

The following guidelines are directed to the staff, properly trained, working in the units in which the substance is used normally and is intended to ensure, if possible without risk, the preliminary operations safety before moving away and waiting for the intervention of the emergency team.

Stop the leak, if this can be done without risk.

Move the people not in charge of the emergency intervention away from the spill zone.

Always keep upwind, if possible.

Ensure sufficient ventilation to the rooms involved in the spill.

Eliminate all possible triggering agents.

For emergency responders

The following indications are intended for expert personnel forming part of the specifically-formed emergency response team and are in addition to those provided at the point referring to non-emergency personnel; the indications regarding environmental precautions and containment and recovery procedures refer to the same personnel

Expert personnel forming part of the emergency response team, specifically trained for this purpose, must comply with the indications provided at the point referring to non-emergency personnel and with the indications regarding environmental precautions and containment and recovery procedures.

Wear a mask with self-contained respirator before approaching the zone affected by the spill.

As a precaution, wear the special fire equipment described in section 5.

All the devices used during the operation must be connected to the ground.

Use antistatic clothing and equipment during the operations.

6.2 Environmental precautions

Vapours can be diluted with nebulised water.

6.3 Methods and material for containment and cleaning up

Wash the floor with water after collecting the spill.

Collect the spill with antispark equipment.

Place the material collected into clean and labelled containers.

If necessary, reclaim the soil.

Do not use strong oxidant based cleaning products.

6.4 Reference to other sections

For all matters not discussed in this paragraph, see the protection equipment recommended in section 8, as well as the procedures for waste management specified in section 13 of this MSDS.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Verify the integrity of the containers before handling operations

Handle the containers with care.

When using the material outdoors, keep upwind.

Always avoid:

- skin and eye contact

- inhaling vapours and fumes

Handle in a well ventilated environment.

Where necessary and particularly in the areas of emptying or refilling, use localised exhaust systems.

Once emptied, the containers must be transferred without delay to the collection area identified while awaiting disposal or recycling.

Do not reuse empty containers before they are subjected to industrial cleaning or reconditioning operations.

Before carrying out any type of hot work, decontaminate lines and containers.

Before transferring the material, make sure that the receptacles contain no residues of other substances, especially incompatible ones.

Make sure that tanks, containers and equipment are connected to the ground, and wear antistatic shoes during transfer operations.

Make sure that all transport equipment and lines are connected to an equipotential bonding network or earthing system.

Do not smoke in work and storage areas.

Food and drinks must be consumed only in the specifically identified areas after removing contaminated clothing and protective equipment and after washing the hands. Always wash hands after manipulating the substance.

7.2 Conditions for safe storage, including any incompatibilities

Protect the containers against damaging.

Inertize the container or fit it with fire barriers.

Protect the container against impacts and falls.

Ventilate the storage area to ensure that vapour leaks from the containers can be diluted.

Make sure that electrical devices installed in locations posing fire and explosion hazards conform to the applicable electrical safety regulations.

Provide a lightning protection system in premises used as deposit

Store in a well ventilated, dry and cool environment.

Store in closed, labelled containers.

Minimise all possible leak sources by means of appropriate systems and procedures.

Keep at a safe distance from all possible triggering agents.

Keep away from food, drinks and animal feed.

Avoid the build-up of electrostatic charges, especially during transfer operations.

Store at a safe distance from incompatible materials.

Store only in the original container.
Keep the containers separate from strong oxidants.
Make sure the tanks and equipment are connected to the ground.

7.3 Specific end use(s)

Recommendations on special applications must be evaluated case by case, also in relation to the composition of the commercial product containing the substance, if applicable, account duly taken of the field of activity for which a substance or mixture is intended and its technological and production cycles.

SECTION 8: Exposure controls/personal protection

No information is available on the mixture as such. For personal protection aspects, it is therefore necessary to evaluate the individual components listed in section 3 of this MSDS. The information currently available and updated is given for the components whose specific properties are known. Components for which specific data are not known are not mentioned.

8.1 Control parameters

8.1.1 Occupational Exposure Limits

For the Professional Exposure Limits specified for the substances contained in the mixture, see the information on the individual components. The information currently available and updated is given for the constituent substances listed in section 3 of this MSDS. Substances whose exposure limits are not known are not mentioned.

The information on the Professional Exposure Limits specified for the components of the mixture is not available or not significant in relation to the hazardousness of the product.

Occupational Exposure Limits: national limit values

Refer to national occupational exposure limits values.

Occupational Exposure Limits: CE

methanol

CAS:67-56-1 EC:200-659-6 INDEX:603-001-00-X

TWA : 200 ppm 260 mg/m³

Notes: possibility of significant absorption through the skin.

Occupational Exposure Limits: BEI ACGIH

methanol

CAS:67-56-1 EC:200-659-6 INDEX:603-001-00-X

Methanol in urine end shift: 15 mg/l.

Occupational Exposure Limits: TLV ACGIH

methanol

CAS:67-56-1 EC:200-659-6 INDEX:603-001-00-X

TWA : 200 ppm

STEL : 250 ppm

Notes: possibility of significant absorption through the skin.

Occupational Exposure Limits: MAK DFG

methanol

CAS:67-56-1 EC:200-659-6 INDEX:603-001-00-X

MAK : 100 ppm 130 mg/m³

Notes: possibility of significant absorption through the skin.

8.2 Exposure controls

In the absence of specific indications, in selecting the appropriate PPE, whether for the skin, the eyes or the airways, consider the equipment available for the class of substances and/or mixtures concerned on the basis of the properties

thereof, such as solubility in water, liposolubility, corrosivity, volatility, etc.
Consider the specific utilisation conditions of the PPE selected and employed in order to assess their durability and effectiveness during the work cycle.

Informations and General measures: general advice

Do not eat, drink or smoke in the working environment.

Sanitary Surveillance: frequency of medical examinations

Refer to national regulations in force.

Personal protection: respiratory tract

For respiratory PPE for the substances/mixtures contained in the mixture, see the information on the individual components.

According to Reg. (EU) 2016/425

- Filter respirator.

methanol

CAS:67-56-1 EC:200-659-6 INDEX:603-001-00-X REACH:01-2119433307-44-XXXX

_ According to Reg. (EU) 2016/425

- Filter respirator.

Full mask, half a mask, fourth of mask (DIN EN 136/140) Recommendation: VWR 111-0206

Appropriate material: AXP3 Recommendation: VWR 111-8932

Personal protection: skin

For skin PPE for the substances/mixtures contained in the mixture, see the information on the individual components.

According to Reg. (EU) 2016/425

Protection of the higher limbs:

- Gloves resistant against chemical products.

Protection of the lower limbs:

- Safety shoes or boots resistant against chemical products.

Body protection:

- Apron or work suit resistant against chemical products.

methanol

CAS:67-56-1 EC:200-659-6 INDEX:603-001-00-X REACH:01-2119433307-44-XXXX

According to Reg. (EU) 2016/425

Protection of the higher limbs:

Gloves in:

- Butyl (0.2 mm thick, permeability time > 8 hours)
- Saranex (0.1 mm thick, permeability time > 8 hours)
- VITON-NEOPRENE (0.2 mm thick, permeability time > 8 hours)
- Nitrile-PVC (permeability time > 6 hours)
- Teflon (0.5 mm thick, permeability time > 5 hours)
- CPE (0.7 mm thick, permeability time > 3 hours)
- Neoprene-rubber (0.5 mm thick, permeability time > 3 hours)
- Viton-chlorobutyle (0.4 mm thick, permeability time > 3 hours)
- Rubber (0.6 mm thick, permeability time > 1 hour)
- Neoprene (0.9 mm thick, permeability time > 1 hour)
- Nitrile (0.6 mm thick, permeability time > 1 hour)
- PE (0.1 mm thick, permeability time > 1 hour)
- Viton (0.3 mm thick, permeability time > 1 hour)

Protection of the lower limbs:

- Safety shoes or boots resistant against chemical products.

Body protection:

- Apron or work suit resistant against chemical products.

Personal protection: eye / face

For eye / face PPE for the substances/mixtures contained in the mixture, see the information on the individual components.

According to Reg. (EU) 2016/425

- Safety glasses or goggles; do not use contact lenses.

- Visor or integral visor.

methanol

CAS:67-56-1 EC:200-659-6 INDEX:603-001-00-X REACH:01-2119433307-44-XXXX

According to Reg. (EU) 2016/425

Glasses with lateral protection DIN / EN standards: DIN EN 166

Recommendation: VWR 111-0432

Do not use contact lenses.

Thermal hazards

Wear heat resistant gloves in case of thermal hazards.

Environmental exposure controls

Refer to national regulations in force.

Atmospheric contaminants

Refer to national regulations in force.

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

Physical State	Liquid
Colour	Transparent
Odour	Data not available
Odour threshold	Data not available
pH	Data not available
Boiling point/boiling range (at atmospheric pressure)	Data not available
Melting point/melting range / freezing point	Data not available
Flash point	24° C
Flammability	Flammable
Auto-ignition temperature	Based on the chemical composition: not self-flammable
Decomposition temperature	Data not available
Evaporation rate	Data not available
Explosive properties: flammability or explosive limits (volume % in air): lower limit	Data not available
Explosive properties: flammability or explosive limits (volume % in air): upper limit	Data not available
Oxidising properties	Based on the chemical composition: not oxidising
Vapour pressure	Data not available
Relative density	Data not available
Vapour density (air = 1)	Data not available
Water solubility	Soluble
Fat or other organic solvents solubility	Data not available
Log Partition coefficient n-octanol/water	Data not available
Viscosity	Data not available
Explosive properties	Based on the chemical composition: not explosive

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

Vapors can form an explosive mixture with air.

10.2 Chemical stability

The product is chemically stable in standard environmental conditions (room temperature).

10.3 Possibility of hazardous reactions

None

10.4 Conditions to avoid

Avoid heating and free flames or other ignition sources (for example static electricity, pilot flame, mechanical or electrical equipment).

10.5 Incompatible materials

methanol

CAS:67-56-1 EC:200-659-6 INDEX:603-001-00-X REACH:01-2119433307-44-XXXX

Oxidizing substances.

Incompatible with strong caustic substances, alkaline-earth metal and alkaline metals; aliphatic amines; acetaldehyde, benzoyl peroxide; 1,3-bis (di-n-cyclopentadienil iron) -2-propen-1-one, calcium carbide, chrome anhydride, chrome trioxide. Plastic products.

10.6 Hazardous decomposition products

Data not available

SECTION 11: Toxicological information

No experimental studies have been performed on the mixture as such. For toxic effects in humans, it is therefore necessary to evaluate the individual substances/mixtures contained in the product and listed in section 3 of this MSDS. The information currently available and updated is given for the components whose specific effects are known. The substances/mixtures list in section 3 of this data sheet do not include those whose specific properties are not known.

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

Acute toxicity

For the experimental values of the substances/mixtures contained in the product, see the information currently available on the individual components.

methanol

CAS:67-56-1 EC:200-659-6 INDEX:603-001-00-X

LD-50 (Oral): Rat: 5628 mg/kg

LD-50 (Oral): Mouse: 400 mg/kg (ACGIH, 2014)

LD-50 (cutaneous): Rabbit: 15800 mg/kg

LC-50-4 hours (inhalation): Rat: 64000 ppm (OECD, 2004)

Corrosive to the respiratory system

For evaluations of the corrosive and/or irritant power to the respiratory system of the substances/mixtures contained in the product, see the information on the individual components.

The information on the corrosive and/or irritant power to the respiratory system of the components of the mixture is not available or not significant in relation to the hazardousness of the product.

The mixture appears to have no corrosive and/or irritant power to the airways.

Skin corrosion/irritation

For evaluations of the corrosive and/or irritant power to skin of the substances/mixtures contained in the product, see the information on the individual components.

The information on the corrosive and/or irritant power to skin of the components of the mixture is not available or not significant in relation to the hazardousness of the product.

The mixture appears to have no corrosive and/or irritant power to the skin.

Serious eye damage/irritation

For evaluations of the corrosive and/or irritant power to eyes of the substances/mixtures contained in the product, see the information on the individual components.

The information on the corrosive and/or irritant power to eyes of the components of the mixture is not available or not significant in relation to the hazardousness of the product.

The mixture appears to have no corrosive and/or irritant power to the eyes.

Respiratory sensitisation

For evaluations of the sensitising power to the respiratory system of the substances/mixtures contained in the product, see the information on the individual components.

The information on the sensitising power to the respiratory system of the components of the mixture is not available or not significant in relation to the hazardousness of the product.

The substance has been found to have sensitising power to the respiratory system.

Skin sensitisation

For evaluations of the sensitising power to skin of the substances/mixtures contained in the product, see the information on the individual components.

The information on the sensitising power of the components of the mixture is not available or not significant in relation to the hazardousness of the product.

No sensitising power to skin has been demonstrated for this mixture.

STOT-single exposure

For evaluations of the STOT-single exposure toxicity of the substances/mixtures contained in the mixture, see the information on the individual components.

It is believed that the mixture has proven or potential STOT effects following single exposure.

methanol

CAS:67-56-1 EC:200-659-6 INDEX:603-001-00-X

The substance acts on the CNS where it initially causes intoxication syndrome, then more or less profound consciousness disorders accompanied sometimes by convulsions, respiratory depression and cardio-vascular collapse (INRS, 2009).

Numerous clinical cases are available for the appearance of blindness in humans following oral recruitment. It is known that in humans the methanol causes lethal intoxications (mainly following ingestion) to relatively low doses: the minimum lethal dose in the absence of medical treatment is about 300-1000 mg / kg p.c. (IPCS, 1997).

The classification criteria for STOT-SE Category 1 are satisfied: clear evidence in the man of a specific toxicity effect for target organs that is not covered by acute toxicity. In rats, even at high doses, no specific toxicity for target organs was observed. It is known that the rat is not sensitive to the toxicity of methanol and therefore is not considered a good model for the effects on humans.

STOT-repeated exposure

For evaluations of the STOT-repeated exposure toxicity of the substances/mixtures contained in the mixture, see the information on the individual components.

The information on the STOT-repeated exposure toxicity of the components of the mixture is not available or not significant in relation to the hazardousness of the product.

It is believed that the mixture has no proven or potential STOT effects following repeated exposure.

Carcinogenicity

For evaluations of the carcinogenicity of the substances contained in the mixture and their effects on development and fertility, see the information on the individual components.

Evaluations of the components of the mixture are not available or are not significant in relation to the hazardousness of the mixture.

It is believed that the mixture has no proven or potential carcinogenic effects in humans.

Germ cell mutagenicity

For evaluations of the mutagenic effects of the substances contained in the mixture, see the information on the individual components.

Evaluations of the components of the mixture are not available or are not significant in relation to the hazardousness of the product.

It is believed that the mixture has no proven or potential mutagenic effects in humans.

Reproductive toxicity

For evaluations of the reproductive toxicity of the substances contained in the mixture and their effects on development and fertility, see the information on the individual components.

Adverse effects on sexual function and fertility

Evaluations of the components of the mixture are not available or are not significant in relation to the hazardousness of the product.

It is believed that the mixture has no proven or potential reproductive toxicity effects in humans.

Aspiration hazard

For evaluations of the aspiration hazard of the substances contained in the mixture, see the information on the individual components.

Evaluations of the components of the mixture are not available or are not significant in relation to the hazardousness of the product.

Metabolism, kinetics, mechanism of action and other information.

For evaluations on the metabolism, kinetics, mechanism of action, etc. of the substances contained in the mixture, see the information on the individual components.

methanol

CAS:67-56-1 EC:200-659-6 INDEX:603-001-00-X

The substance can be absorbed by ingestion, inhalation or for cutaneous contact (INRS, 2009).

It is quickly distributed in the total water of the body. The half-life is about 24 hours (INRS, 2009). Metabolism takes place in the liver (INRS, 2009).

The 1st stage involves the oxidation of methanol in Formaldehyde by hepatic alcohol-dehydrogenase, enzyme that has affinity also for ethanol and butanol. The relative affinity of the dehydrogenase alcohol for ethanol and methanol is approximately 20: 1; this stage is limiting because linked to a saturation process (INRS, 2009).

In the 2nd stage the formaldehyde is oxidized by the dehydrogenase aldehyde in formic acid or formate, in relation to pH (INRS, 2009).

The 3rd stage, which leads to the formation of carbon dioxide, is controlled by the metabolic pathway of the compounds to a carbon atom (system under the dependence of a folic acid derivative); It is the limiting stage of biotransformation. This explains the accumulation of formate in the body in the event of a massive or repeated administration of methanol (INRS, 2009).

The elimination of methanol and its metabolites takes place with exhaled air (methanol and carbon dioxide) and with urine (methanol and formate). This process is slow, in particular if compared with ethanol. In the primates the metabolic process is about 50% slower than in rodents. The urinary concentration of methanol, well correlated with blood concentration, is a good indicator of the dissemination of the substance (INRS, 2009).

The existence of a precedent latency phase to the appearance of specific toxic effects suggests that these are not due to the substance for itself, but to its metabolites. The ocular toxicity mechanism has not yet been clarified, although it is likely to be due to the presence of formic acid and not an aldehyde formica (INRS, 2009). The accumulation of formic acid coincides with metabolic acidosis and with the toxic effects on the central nervous system (INRS, 2009).

Probable exposure routes

The specific potential risk exposure routes are inhalation, skin contact and ingestion.

SECTION 12: Ecological information

No experimental studies have been performed on the mixture as such. For its toxicity to the environment it is therefore necessary to evaluate the individual components listed in section 3 of the MSDS.

12.1 Toxicity

Ecotoxicity: short-term effects

Short-term aquatic toxicity studies on the substances/mixtures contained in the product as listed in section 3 of this MSDS are not known or not significant in relation to the hazardousness of the mixture.

Ecotoxicity: long-term effects

Long-term aquatic toxicity studies on the individual substances/mixtures contained in the mixture as listed in section 3 of this MSDS are not known or not significant in relation to the hazardousness of the product.

12.2 Persistence and degradability

For evaluations of persistence and degradability of the substances/mixtures contained in the product, see the information on the individual components.

12.3 Bioaccumulative potential

For evaluations of the potential bioaccumulation of the substances/mixtures contained in the product, see the information on the individual components.

The information on the potential bioaccumulation of the components of the mixture is not available or not significant in relation to the hazardousness of the product.

12.4 Mobility in soil

The information on the mobility in soil of the components of the mixture is not available or not significant in relation to the hazardousness of the product.

12.5 Results of PBT and vPvB assessment

For evaluations of the PBT and vPvB assessment of the substances/mixtures contained in the product, see the information on the individual components.

This mixture contains no substances evaluated persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

12.6 Other adverse effects

Other adverse effects of the mixture are not known.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

To be disposed of as such, pursuant to Directive 98/2008/EC and Regulation 1357/2017/UE, the material must be classified as hazardous waste.

HP 3 "Flammable": flammable liquid waste: liquid waste having a flash point below 60 °C or waste gas oil, diesel and light heating oils having a flash point > 55 °C and ≤ 75 °C.

HP 4	“Irritant — skin irritation and eye damage”: waste which on application can cause skin irritation or damage to the eye.
HP 5	“Specific Target Organ Toxicity (STOT)/Aspiration Toxicity”: waste which can cause specific target organ toxicity either from a single or repeated exposure, or which cause acute toxic effects following aspiration.
HP 6	“Acute Toxicity”: waste which can cause acute toxic effects following oral or dermal administration, or inhalation exposure.

Disposal considerations





Waste management modalities must be evaluated case by case, in relation to the composition of the waste material, in the light of the provisions of the applicable Community and national regulations. For handling and intervention procedures in case of accidental dispersion of the waste material, as a rule the indications given in paragraphs 6 and 7 apply; precautionary measures and specific actions must be evaluated in relation to the composition of the waste materials. The waste constituted from emptied containers must be placed in an area specifically identified for their collection while waiting to the disposal. The area must be paved and equipped with coverage in order to avoid the washing away by atmospheric precipitation. It is not allowed the disposal through the discharge of waste water.

SECTION 14: Transport information

Classification

The material is classified as hazardous for transport purposes.

14.1 UN number or ID number	1992
14.2 UN proper shipping name	FLAMMABLE LIQUID, TOXIC, N.O.S. (methanol)
14.3 Transport hazard class(es)	ADR/RID: 3 IMDG: 3 ICAO: 3 ADN: 3
Subsidiary risks	ADR/RID: 6.1 IMDG: 6.1 ICAO: 6.1 ADN: 6.1
14.4 Packing group	ADR/RID: II IMDG: II ICAO: II ADN: II
Hazard identification number	ADR/RID: 336
UN Special Provisions	ADR/RID: 274 IMDG: 274 ADN: 274, 802
14.5 Environmental hazards	ADR, RID e ADN: the substance is not dangerous for the environment. Codice IMDG: the substance is not a marine pollutant.
14.6 Special precautions for user	ADR/RID: limited quantities: 1 L / excepted quantities: E2 ADR: ADR: tunnel restriction code: (D/E) IMDG: limited quantitie: 1 L / excepted quantitie: E2 IMDG: EmS Codes: F-E, S-D ICAO: limited packaging: Y341 / limited quantities: 1 L ICAO: Passengers: packing instructions: 352 / Passengers: maximum

	amount: 1 L ICAO: Cargo: packaging instructions: 364 / Cargo: maximum amount: 60 L ADN: limited quantities: 1 L / excepted quantities: E2
14.7 Maritime transport in bulk according to IMO instruments	Data not available
Labels	ADR/RID:  IMDG:  ICAO:  ADN: 

SECTION 15: Regulatory information

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

The list of applicable regulations is indicative and non exhaustive. Users of the product must examine the specific regulations and the recommendations on the correct use of the product on a case-by-case basis.

- Regulation (EC) No 1907/2006 of 18 December 2006 (Registration, Evaluation, Authorisation and Restriction of Chemicals - REACH Regulation)
- Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
- Regulation (EC) n. 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
- Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives
- Regulation (EU) 1357/2014 (properties of waste which render it hazardous)
- Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents
- The holder of this product has to check the applicability of the provisions of Directive 2012/18/UE, and subsequent modifications and integrations, and, if necessary, to observe them.

15.2 Chemical safety assessment

Consider the chemical safety assessment, taking into account in particular the chemical and physical properties, and the circumstances of use of the substance or mixture.

SECTION 16: Other Information

This MSDS cancels and replaces any earlier versions.

The information given is based on the best knowledge available to the compiler as at the date specified in the foreword. The information must be construed as referred solely to the product specified.

Accordingly, it may be not applicable in the case of combinations or mixtures. Users must conform to the applicable regulations and make sure the information given is up-to-date, suitable and exhaustive in relation to the product's specific intended use.

Review of the safety data sheet

Changes made in this safety data sheet, from the previous version of the same, are given below.

Data not applicable

Hazard statement code(s) and supplemental hazard statement code(s): full text

The full text of the hazard statement and supplemental hazard information used in the compilation of this MSDS is given below.

H225	Highly flammable liquid and vapour
H226	Flammable liquid and vapour
H301	Toxic if swallowed
H301+H311+H331	Toxic if swallowed, in contact with skin or if inhaled
H311	Toxic in contact with skin
H331	Toxic if inhaled
H370	Causes damage to organs

Precautionary statement code(s): full text

The full text of the precautionary statements information used in the compilation of this MSDS is given below.

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 ... thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P311	Call a POISON CENTER/doctor/...

Abbreviations and Acronyms

ACGIH: American Conference of Governmental Industrial Hygienist.

ADN: European Agreement concerning the international carriage of dangerous goods by inland waterways.

ADR: European Agreement concerning the international carriage of dangerous goods by road.

BEI: Biological exposure limit: it indicates the relative biological agent or its metabolite established by ACGIH.

CNS: Central nervous system.

DFG: German Commission for the study of the health hazards of chemicals in the workplace.

DNEL: Derived No-Effect Level

EC50: Median effective concentration: the effective concentration of substance that causes in the 50% of individuals a different effect from death (immobilization, stunting etc.).

IARC: International Agency for Research on Cancer.

IBC: International Bulk Chemical Code: International Code for Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk.

ICAO: International Civil Aviation Organisation; it refers to Annex 18 of the Convention on International Civil Aviation "Safety of air transport of dangerous goods".

IMDG: International Maritime Dangerous Goods code for transport of dangerous goods by sea.

IMO: International Maritime Organization.

Kow: Partition coefficient between n-octanol and water. It is defined as the ratio between the equilibrium concentrations of a dissolved substance in a system consisting of n-octanol and water. It is a measure of the lipophilicity of the substance.

LC0: The highest dose used that does not cause any death.

LD50: Median dose: single dose of substance, statistically evaluated, which is expected to cause death in 50% of treated animals.

LOAEL: Lowest Observed Adverse Effect Level

MAK: Maximum concentration of a chemical substance (as gas, vapor or particulate matter) in the workplace air which generally does not cause adverse effects on workers' health nor cause annoyance even when the person is repeatedly exposed during long periods (typically 8 hours per day, assuming an average of 40 hours of work per week).

MARPOL: Protocol on Transport in bulk according to IMO.

NOEC: No Observed Effect Concentration

NOEL: No Observed Effect Level

PNEC: Predicted no-effect concentration

PPE: Personal protective equipment

RID: European Agreement concerning the international carriage of dangerous goods by rail.

STEL: Threshold Limit Value - Short Term Exposure Limit: the concentration to which it is considered that workers can be exposed continuously for 15 minutes to up to 4 times per day with an interval of 60 minutes between exposures without suffering adverse effects.

TLV: Threshold Limit Value established by ACGIH.

TWA: Threshold Limit Value - Time-Weighted Average: the concentration for a conventional 8-hour workday and a 40-hour workweek, to which it is considered that nearly all workers may be repeatedly exposed, day after day, for a working lifetime without adverse effects.

Sources of key data

The sources consulted in the compilation of this MSDS are listed below:

- HSDB Hazardous Substances Data Bank. Bethesda, MD: National Library of Medicine File on-line
- ACGIH Threshold limit values for chemical substances and physical agents and biological exposure indices (TLVs and BEIs).
- Lewis, Richard J. Sr. Wiley (2000) Sax's Dangerous Properties of Industrial Materials - Interscience Publication. Tenth Edition.
- RTECS - Registry of Toxic Effects of Chemical Substances - National Library of Medicine of Bethesda (USA) by National Institute for Occupational Safety and Health (NIOSH) file on-line
- DFG (Deutsche Forschungsgemeinschaft) List of MAK and BAT Values. Maximum Concentrations and Biological Tolerance Values at the Workplace.
- GESTIS-database on hazardous substances - Institut für Arbeitsschutz der Deutschen Gesetzlichen Unfallversicherung (IFA, Institute for Occupational Safety and Health of the German Social Accident Insurance).
- United Nations. Restructured ADR. European Agreement concerning the International Carriage of Dangerous Goods by Road.
- United Nations. European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (ADN).
- Organisation Intergouvernementale pour les Transports Internationaux Ferroviaires (OTIF). Règlement concernant le transport international ferroviaire des marchandises dangereuses (RID).
- International Civil Aviation Organization (ICAO). Technical Instructions for the Safe Transport of Dangerous Goods by Air.
- International Maritime Organization (IMO). International Maritime Dangerous Goods Code.

Safety data sheet revised by Infochem srl, on 20 May 2020, in accordance with current Community legislation (EC Regulation 1907/2006 - REACH Regulation and s.m.i.) and compiled on the basis of information taken from the SDS of the components and provided by COQUA LAB.