Safety Data Sheet for Chemicals - FISPO

Issue: 1/13/2022

Code: FISPQ 001

Review 07

Solution CellPresery

SECTION 1 - IDENTIFICATION

Product Identification: Solution CellPreserv

Commercial name: Methanol aqueous solution

Product Description: Methanol-based buffered transport solution

Product Usage: Preservative solution for supporting cells during transport and slide preparation

Internal Product Identification

Code:

Solution: 02.8227

Company Name: Kolplast CI SA

Address: Estrada Municipal Benedito de Souza, 418, Bairro da Mina – ITUPEVA – ZIP

CODE 13.295-364

Contact phone: + 55 11 4961-0900

E-mail: vendas@kolplast.com.br

Toxic product order number: S6 - UN 1992

SECTION 2 - HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture (Classification according to regulation (EC) 1272/2008)

Flammable liquids (Category 2), H225

Acute Toxicity, Oral (Category 3), H301

Acute toxicity, Inhalation (Category 3), H331

Acute Toxicity, Dermal (Category 3), H311

Specific target organ systemic toxicity - single exposure (Category 1), Eyes, H370

2.2 Label Elements (Classification according to regulation (EC) 1272/2008)

Pictogram:







Warning word: Danger

Danger Indications: H225 Highly flammable liquid and vapors.

H301 + H311 + H331 Toxic if swallowed, in contact with skin or if inhaled.

H370 Causes damage to organs (Eyes).

Precautionary Statement: P210 Keep away from heat/sparks/open flames/hot surfaces. Do not smoke.

P233 Keep the container tightly closed.

P260 Do not inhale dusts/fumes/gases/mists/vapours/aerosols.

P264 Wash skin carefully after handling.

P280 Wear protective gloves/eye protection/face protection.

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Emergency Response:

P301 + P310 + P330 IN CASE OF INGESTION: Immediately contact a TOXICOLOGICAL INFORMATION CENTER/doctor. Rinse your mouth.

P303 + P361 + P353 IN CASE OF CONTACT WITH SKIN (or hair): Immediately

remove all contaminated clothing. Rinse skin with water/shower.

P308 + P311 IN CASE OF exposure or suspected exposure: Contact a

TOXICOLOGICAL INFORMATION CENTER/doctor.

P370 + P378 In case of fire: For extinguishing use dry sand, dry chemical or

alcohol resistant foam.

Storage: P403 + P233 Store in a well-ventilated place. Keep the container tightly closed.

Other dangers: There are no other dangers.

SECTION 3 - COMPOSITION AND COMPONENT INFORMATION

Component	CAS Registration No.	Weight (%)	
Methanol - EINECS 200-659-6	67-56-1	30 - 60	
Water	7782-13-5	40 - 70	
Lubricant	56-81-5	1 - 2	
Complexant	64-02-8	0.1 - 0.2	
Stabilizer	50-00-0	0,0001	

SECTION 4 - FIRST AID

4.1 General description of **Emergency situations:**

Flammable transparent product. Inhalation of vapors may cause nonspecific discomfort (nausea, weakness), drowsiness with anesthetic effects and possible blindness. Ingestion of just 118 mL can cause blindness and in extreme cases, death.

4.2 See a doctor in case of an emergency. In the meantime, follow the instructions below:

After inhalation: Remove victim to fresh air. If victim is not breathing, give artificial respiration.

Immediately remove contaminated clothing and shoes. Wash skin with plenty of After skin contact: water, preferably under an emergency shower.

Flush eyes with plenty of water, keeping eyelids apart. Preferably use an eye After eye contact:

Do not induce vomiting. If victim is conscious, rinse mouth with plenty of clean After ingestion:

4.3 Potential effects on health status:

Inhalation: It can cause central nervous system depression, resulting in nausea, weakness, drowsiness and possible blindness.

Eye contact: May cause transient irritation.

Skin contact: May cause irritation or dermatitis.

May cause intoxication, central nervous system depression, nausea and Ingestion: dizziness. May cause liver, kidney and nervous system damage. May cause

blindness and/or death.

Target organs: Liver, kidneys and central nervous system.

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Clinical conditions aggravated due

Individuals with pre-existing retinal (eye) or liver disease may have an increased susceptibility to toxicity at low levels of continuous exposure (repeated to exposure: exposure).

Liquid and vapor can penetrate the skin and mucous membranes. It can cause **Chronic:**

chronic liver, kidney or central nervous system problems.

SECTION 5 - FIRE FIGHTING MEASURES

Flash point and method: 26.5°C (80°F) in a closed vessel.

Auto-ignition temperature: 385°C (725°F).

Inflammation limits: LEL-6.7 UEL-36 (based on methanol component).

General Hazard: Flammable material. Heated material can form toxic and/or explosive vapors

Wear complete fire-fighting equipment with self-contained breathing apparatus. For small fires, use media such as: foam, dry chemical, or carbon dioxide. For

Fire Fighting Instructions: high intensity, use large amounts of water from as far away as possible

(flooding) applied as a fog or spray. Cool all deposits or vessels with large

amounts of water. CARE! INVISIBLE FLAMES IN DAYLIGHT!

Fire fighting equipment: Use complete fire-fighting equipment with self-contained breathing apparatus

Extinguishing Means: Foam - YES

Alcohol foam - YES

CO2 - YES

Chemical powder - YES

Others - Water fog

Hazardous combustion products: Carbon monoxide and carbon dioxide.

SECTION 6 - CONTROL MEASURES FOR SPILLS OR LEAKS

6.1 Personal precautions, protective equipment and emergency procedures

Minimum precautions: Use personal protective equipment. Avoid breathing vapour/mist/gas. Ensure adequate ventilation. Cut off all sources of ignition. For non-emergency personnel:

Evacuate personnel to safe areas. Beware of the accumulation of vapors that

can form explosive concentrations. Vapors can accumulate in low areas.

For emergency services Use the PPE described in section 8 of the MSDS.

personnel:

6.2 Environmental precautions

Prevent spillage from draining into waterways. In large spills, erect barriers with

Spill on the ground: clay. In small spills, absorb with clay or kitty litter. For spills larger than 190 litres,

contact a company specializing in spill cleaning.

Prevent leakage or spillage if safe to do so. Do not allow the product to enter the

Pour into water: sewage system - risk of explosion. Comply with applicable local and national

regulations.

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SECTION 7 - HANDLING AND STORAGE

Safe handling precautions:

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from any flame or source of ignition – No smoking. Take steps to prevent the build-up of static electricity. Handle in a ventilated environment and use the necessary PPE.

Safe storage conditions, including Keep tightly closed in a dry, ventilated place at room temperature (15° to 30°C) any incompatibilities: and away from sources of ignition. Do not smoke.

SECTION 8 - EXPOSURE CONTROL AND INDIVIDUAL PROTECTION

8.1 Control Parameters: DO NOT USE FOR UNINTERRUPTED PERIOD.

Exposure limits: TLV-TWA (ppm): 200 (PT).

Biological indicators: BEI (ACGIH, 2012): Methanol in the urine: 15 mg/L Other indicators: 40 mg/kg bw/day Dermal exposure 260 mg/kg bw/day

Inhalation exposure.

8.2 Engineering control measures: Provide mechanical ventilation and a direct exhaust system to the outside

environment. It is recommended to make emergency showers and eyewash stations available in the work area. Engineering control measures are the most

effective in reducing product exposure.

8.3 Personal protection measures:

Eye/face protection: Wear safety glasses with side shields, goggles. S1/2, S16, S24/25, S37/39, S45.

Handle with gloves. Gloves must be inspected before use. Use a proper

Skin and body protection: technique for removing gloves (without touching the outer surface of the gloves),

avoiding contact with the product.

Breath protection: Protective masks with mist filters are recommended.

Hygiene measures:

Wash with soap and water after handling the product and before eating, drinking, smoking or using the bathroom. Contact lenses pose a risk as they can absorb irritating particles. Keep workplaces within hygienic standards, always making

employees aware of the safe handling of the product.

Other information:

The PPE's to be used for the treatment and disposal of product residues and

packaging are the same used to handle the product.

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8.4 Exposure Time:

EC specific data:

Ingrediente	ACGIH TLV®	Bélgica, Finlândia, Irlanda, Reino Unido	Dinamarca
Metanol	200 ppm – TWA 250 ppm – STEL Pele	200 ppm – TWA 250 ppm – STEL Pele	200 ppm – TWA Pele
LLV, MAC, MAK, OEL, TWA, VME, VLA-ED = 8 hr STEL, STV, VLE, VME-EC	França 200 ppm – VME 1000 ppm – VLE	Alemanha 200 ppm TWA 1000 ppm máximo Pele	Grécia 200 ppm – TWA 250 ppm – STEL
= 15 minutos	Países Baixos 200 ppm – MAC Pele	Noruega 100 ppm – OEL Pele	Espanha 200 ppm VLA-ED 250 ppm VLA-EC Pele
	Suécia 200 ppm LLV 250 ppm STV Pele	Suiça 200 ppm MAK 1000 ppm STEL Pele	

SECTION 9 - PHYSICAL - CHEMICAL PROPERTIES

Color: Colorless

Physical State: Liquid / Homogeneous

Odor: Characteristic

Explosive Limits (%): 6 / 36.5

Specific temperatures: Do not store above 45°C

Solubility: Soluble in water in any proportion

Evaporation rate: 2.1 (BuAc=1)

Viscosity: 0.544 – 0.590 mPa.s (25°C)

Density: 0.792 g/cm3 in 25°C

Auto-ignition temperature: 464°C

Vapor density (air = 1): 1,1

Flash Point: 12°C

SECTION 10 - STABILITY AND REACTIVITY

Reactivity: It does not react under normal handling and storage conditions.

The product is chemically stable under standard ambient conditions (room Chemical Stability: temperature).

Possibility of hazardous reactions: Reacts violently with aluminum, oxidants and strong inorganic acids.

Conditions to avoid: Heat and sparks. Extreme temperatures and direct sunlight.

Incompatible materials: Strong oxidizing agents and acids.

Hazardous decomposition The decomposition of the product leads to the formation of toxic and hazardous

products: fumes such as carbon monoxide, carbon dioxide and formaldehyde.

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute toxicity: LD50 Oral in mice: 5628 mg/kg

DL50 Dermal in rabbits: 15,800mg/Kg

CL50 inhalation in mice: 85 mg/Kg

Skin corrosion/irritation: The product is non-irritating up to 2000ppm

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Serious eye damage/eye irritation: Irritating to eyes.

Respiratory or skin sensitization: Irritating to mucous membranes.

Germ cell mutagenicity: Are not known.

Carcinogenicity: Are not known.

Toxicity to reproduction and Methanol is associated with birth defects in rats after oral and inhalation

lactation: exposure.

Systemic toxicity to certain target organs – single exposure:

Data not available.

Systemic toxicity to specific target Data not available.

organs - repeated exposures:

Aspiration hazard: Data not available.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity: EC50 (72 hours): 8,000mg/L

Toxicity to fish: CL50 (96hs) 10,800mg/L (Salmo gairdneri / Oncorhynchus

mykiss)

Toxicity to micro crustaceans: CE50 (48h): 24500mg/L (Daphniamagna)

On ground BOD5: 0.6/1.1g O2/g substance COD: 1.42 g O2/g substance. In

Persistence and Degradability: water, methanol is readily biodegradable, being soluble in water. Methanol is

transformed into CO2 and H2O.

Methanol has a bioconcentration coefficient lower than 10 for Leuciscus idus, Bioaccumulative potential:

Log Pow: -0.82/-0.66

Miscible with water and can contaminate sewers, rivers, streams and other water Mobility on the ground: currents. High mobility in soil is expected. Very volatile product.

In the aquatic ecosystem, methanol can be very harmful to life:

a) In soil, it migrates to groundwater and/or evaporates quickly;

b) In water, its half-life is between 1-10 days: Other adverse effects:

c) In the air, it will persist as an aerosol for a short time, undergoing degradation

photochemistry produced by hydroxyl radicals; residual methanol being removed

from the atmosphere by rainfall

SECTION 13 - TREATMENT AND DISPOSAL CONSIDERATIONS

Recommended methods for final disposal:

Deactivate the product through incineration in ovens intended for this type of operation, equipped with effluent gas washing chambers and approved by the

competent body.

Product leftovers are toxic. Do not discard product leftovers improperly after use.

Product leftovers: Biological treatment can be used for methanol residues, especially those of low

concentration. Methanol residues are not suitable for underground injection.

Class 1 waste, non-reusable, must not be incinerated. Any disposal practice of Used packaging: the product or packaging must comply with current environmental legislation.

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SECTION 14 - TRANSPORT INFORMATION

IMDG N.º ONU/ID: UN1992

Official shipping name: FLAMMABLE LIQUID, TOXIC, N.S.A.

Hazard Class: 3

Subsidiary hazard class: 6.1

Description: UN1992, FLAMMABLE LIQUID, TOXIC, N.S.A (Methanol), 3 (6.1), Packing group: III, (26°C C.C.)

The solubilization of pure methanol (100%) in water is rapid and complete. The

Marine pollutant: accompanying dilution reduces methanol concentrations to a level that is non-

toxic to marine life in less than a mile, even for large catastrophic releases.

Special Provisions: None. No. Prog. In: F-E, S-D.

Transport in bulk in accordance

with Annex II of the MARPOL
There is no information available.

73/78 and the IBC Code:

RID N.º ONU/ID: UN1992

Official shipping name: FLAMMABLE LIQUID, TOXIC, N.S.A.

Hazard Class: 3

Labels: 3 + 6.1

Packing group: III - UN1992, Flammable liquid, toxic, n.s.a (Methanol), 3 (6.1), III

The solubilization of pure methanol (100%) in water is rapid and complete. The

Danger to the Environment: accompanying dilution reduces methanol concentrations to a level that is non-

toxic to marine life in less than a mile, even for large catastrophic releases.

Classification code: FT1

Special Provisions: None.

ADR N.º ONU/ID: UN1992

Official shipping name: FLAMMABLE LIQUID, TOXIC, N.S.A.

Hazard Class: 3

Labels: 3 + 6.1

Packing group: III - Description: UN1992, Flammable liquid, toxic, n.s.a (Methanol), 3 (6.1), III

The solubilization of pure methanol (100%) in water is rapid and complete. The

Danger to the Environment: accompanying dilution reduces methanol concentrations to a level that is non-

toxic to marine life in less than a mile, even for large catastrophic releases.

Special Provisions: None.

Classification code: FT1

Tunnel restriction code: (D/E)

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ICAO (airway) N.º ONU/ID: UN1992

Official shipping name: FLAMMABLE LIQUID, TOXIC, N.S.A.

Hazard Class: 3
Packing Code: 6.1

Packing group: III - UN1992, Flammable liquid, toxic, n.s.a (Methanol), 3 (6.1), III

The solubilization of pure methanol (100%) in water is rapid and complete. The

Danger to the Environment: accompanying dilution reduces methanol concentrations to a level that is non-

toxic to marine life in less than a mile, even for large catastrophic releases.

Special Provisions: None.

IATA N.º ONU/ID: UN1992

Official shipping name: FLAMMABLE LIQUID, TOXIC, N.S.A.

Hazard Class: 3

Subsidiary hazard class: 6.1

Packing group: III - Description: UN1992, Flammable liquid, toxic, n.s.a (Methanol), 3 (6.1), III

The solubilization of pure methanol (100%) in water is rapid and complete. The

Danger to the Environment: accompanying dilution reduces methanol concentrations to a level that is non-

toxic to marine life in less than a mile, even for large catastrophic releases.

Special Provisions: None.

Classification code: FT1

ERG code: 3P

SECTION 15 - REGULATIONS

This Chemicals Information Sheet was prepared in accordance with ABNT (Brazilian Association of Technical Standards) NBR14725-4/2014, based on the European Guide to Safety Data Sheets (EUROPEAN CHEMICALS AGENCY, 2020) and also the Methanol Report Institute (Safe-Handling-Manual_5th-Edition) Heads up: Pay attention to the possible existence of local regulations that were not foreseen in this document.

SECTION 16 - OTHER INFORMATION

The data contained herein are provided for guidance purposes based on current and reputable literature, however, we recommend that the appropriate user evaluations are carried out.

Kolplast CI SA is not responsible for any damage caused by misuse of the product.