

	Safety Data Sheet for Chemicals - SDS	Issue: 01/Feb/2026	Review 011
		Code: SDS 001	
SOLUTION CELLPRESERV			
SECTION 1 - IDENTIFICATION			
1.1. Product identifier:		CELLPRESERV SOLUTION	
1.2. Other means of identification:		Not available.	
1.3. Recommended uses of the chemical and restrictions on use:		Preservation of cell morphology, DNA and RNA.	
1.4. Supplier details:		Name: Kolplast CI Ltda. Address: Estrada Municipal Benedito de Souza, No. 418, Bairro da Mina – Itupeva – ZIP Code: 13.299-364 Phone: +55 11 4961-0900 E-mail: vendas@kolplast.com.br	
1.5. Emergency telephone number:		+55 11 4961-0900	
SECTION 2 - HAZARDS IDENTIFICATION			
2.1 Classification of the substance or mixture (Classification according to ABNT 14725:2023) Flammable liquids (Category 3) H226 Acute Toxicity - Oral (Category 3) H301 Acute Toxicity - Dermal (Category 3) H311 Acute Toxicity - Inhalation (Category 3) H331 Specific target organ toxicity - Single exposure (Category 1) H370			
2.2 GHS label elements, including precautionary statements			
Pictogram:   			
Signal word: Danger			
Additional statements Not applicable.			
Hazard statements: H226 - Flammable liquid and vapor H301 - Toxic if swallowed H311 - Toxic in contact with skin H331 - Toxic if inhaled H370 - Causes damage to organs			
Precautionary statements:			
Prevention: P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking. P233 - Keep container tightly closed. P240 - Ground/bond container and receiving equipment during transfers.			

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P241 - Use explosion-proof equipment. P242 - Use only non-sparking tools. P243 - Take precautionary measures against static discharge. P260 - Do not breathe vapors. P264 - Wash hands thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P271 - Use only outdoors or in a well-ventilated area. P280 - Wear protective gloves, eye protection and respiratory protection suitable for organic vapors. P321 - Specific treatment (see Section 4). P311 - Call a POISON CENTER/doctor. P312 - Call a POISON CENTER/doctor if you feel unwell. P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor. P302 + P352 - IF ON SKIN: Wash with plenty of water. P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P370 + P378 - In case of fire: Use foam, CO2 or dry chemical to extinguish. P330 - Rinse mouth. P308 + P311 - IF exposed or concerned: Call a POISON CENTER/doctor. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P361 + P364 - Take off immediately all contaminated clothing and wash it before reuse. P403 + P233 - Store in a well-ventilated place. Keep container tightly closed. P403 + P235 - Store in a well-ventilated place. Keep cool. Storage: P405 - Store locked up. Disposal: P501 - Dispose of contents/container at appropriate waste/final disposal facilities (appropriate sanitary landfill accredited by the competent authorities and/or specialized incineration companies or other destination in accordance with municipal and state laws in the region). 2.3 Other hazards which do not result in classification No other hazards are known.			
SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS			
3.1 Substance			
Not applicable.			

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3.2 Mixture			
Chemical name Methanol	CAS Registry No. 67-56-1	Concentration range (%) 53,25%	
SECTION 4 - FIRST-AID MEASURES			
4.1 Description of necessary first-aid measures:			
After inhalation:	Remove the victim to fresh air and keep at rest in a position comfortable for breathing. If the victim is not breathing, give artificial respiration using an appropriate device; oxygen should be administered by qualified personnel. Seek medical attention, taking this SDS with you.		
After skin contact:	Remove contaminated clothing and shoes. Wash affected areas with plenty of running water for at least 15 minutes. Seek medical attention, taking this SDS with you.		
After eye contact:	Remove contact lenses, if possible. Rinse eyes with plenty of running water for at least 15 minutes, keeping the eyelids open. Seek medical attention, taking this SDS with you.		
After ingestion:	DO NOT INDUCE VOMITING. Rinse mouth with water. In case of spontaneous vomiting, keep the head below hip level or place the victim on their side to prevent aspiration. Seek medical attention immediately, taking this SDS with you.		
Actions to be avoided:	Do not give mouth-to-mouth resuscitation if the victim has inhaled or swallowed the product; use a resuscitation mask or other appropriate device.		
Protection for first-aid responders: Avoid contact with the product while assisting the victim.			
4.2 Most important symptoms and effects, acute or delayed:			
Exposure to methanol may affect the central nervous system and optic nerve. Symptoms may include headache, dizziness, drowsiness, nausea, vomiting, visual disturbances, metabolic acidosis, seizures, coma and, in severe cases, death.			
4.3 Indication of immediate medical attention and special treatment needed, if necessary:			
Call a POISON CENTER or doctor. The raw material SDS identifies fomepizole as an antidote for methanol poisoning; it must be administered by qualified medical personnel.			
SECTION 5 - FIRE-FIGHTING MEASURES			
5.1 Extinguishing media			
Suitable: Foam, CO2 and dry chemical.			
Unsuitable: Direct water-jet extinguishers should be avoided to prevent the product from spreading to other areas.			

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5.2 Specific hazards arising from the substance or mixture			
Special procedures	Fight the fire from a safe distance. Wear full PPE and positive-pressure self-contained breathing apparatus (SCBA). Use dikes to contain firefighting water. Keep upwind. Use water fog to cool equipment exposed near the fire.		
Hazards arising from combustion	Flammable liquid and vapors. Combustion of the chemical product or its packaging may form irritating and toxic gases, including carbon monoxide, carbon dioxide and formaldehyde.		
5.3 Special protective measures for the fire-fighting team			
Use positive-pressure self-contained breathing apparatus (SCBA) and full protective clothing. Containers and tanks involved in the fire should be cooled with water fog.			
SECTION 6 - ACCIDENTAL RELEASE MEASURES			
6.1 Personal precautions, protective equipment and emergency procedures			
	Isolate the spill or leak area for at least 50 meters in all directions. In case of large leaks, consider initial evacuation downwind within a radius of 300 meters. Wear protective clothing, gloves and eye protection. Do not touch, remain in or walk through spilled product. Avoid low areas. Move away from the leak while remaining upwind (with your back to the wind) to avoid contamination.		
For non-emergency personnel:	Removal of ignition sources: shut off electrical power and switch off spark-generating sources. Remove from the area any material that could start a fire (e.g., spilled diesel oil).		
	Dust control: Not applicable because the product is a liquid.		
	Prevention of inhalation and contact with skin, mucous membranes and eyes: Use PPE as described in Section 8.		
For emergency responders:	Use PPE; see Section 8. Ground all equipment that will be used to handle the spilled product. Eliminate all possible ignition sources, such as open flames, uninsulated hot elements, electrical or mechanical sparks, cigarettes, electrical circuits, etc. Prevent any action or procedure that could generate sparks or flames.		
6.2 Environmental precautions			
Special procedures	Prevent contamination of waterways by blocking stormwater drains. Prevent product residues from reaching bodies of water; interrupt human and animal consumption. Build a dike around the spilled product.		
6.3 Methods and materials for containment and cleaning up			

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Cleaning methods	Use dikes or natural barriers to contain the product leak. Absorb with inert absorbent material (sand, diatomite, vermiculite). If possible, stop the leak using plugs, sealing straps, or by turning the hole/tear/dent upward. Paved floor: absorb the product with sawdust or sand, collect the material with a shovel and place it in a sealed, properly identified container. Spilled product must not be reused. Soil: remove contaminated soil layers until uncontaminated soil is reached, collect this material and place it in a sealed, properly identified container. Bodies of water: stop water intake for human or animal consumption and contact the nearest environmental authority and the company emergency center, since the measures to be adopted depend on the extent of the accident, the characteristics of the affected water body and the quantity of product involved.		
SECTION 7 - HANDLING AND STORAGE			
7.1 Precautions for safe handling:			
Safe handling guidance	Avoid inhalation of vapors. Handle in a well-ventilated area. Use appropriate protective equipment. Avoid contact with skin and eyes. Open and handle packages carefully. Keep people, especially children and pets, away from the work area. Keep any product residues in their original, properly closed containers. If symptoms of poisoning occur, stop work immediately and proceed as described in Section 4 of this sheet.		
Prevention of worker exposure	Do not eat, drink or smoke while handling the product. Wash hands before eating, drinking, smoking or using the restroom. Open the package in a way that avoids spills. Do not use damaged and/or defective personal protective equipment. Do not unclog nozzles, openings, pipes or valves with the mouth. Do not handle and/or carry damaged packages. Adopt good personal hygiene practices. Do not store or consume food in the workplace. Contaminated clothing must be changed and washed before reuse. Remove contaminated clothing and protective equipment before entering eating areas.		
7.2 Conditions for safe storage, including any incompatibilities			
Suitable conditions	Store in a well-ventilated, covered, dry and airy place, away from sunlight. Store at room temperature. Keep the container closed. Protect packages from physical damage. Keep the product in its original container. Keep any product residues in their original, properly closed containers.		
Conditions to avoid	Humid locations, heat sources and direct sunlight.		
Prevention of fire and explosion	Keep the product away from heat, sparks, flames and other ignition sources.		
Incompatible products and materials / other information	Keep away from incompatible materials, children, food, beverages, animal feed and other materials intended for human or animal consumption.		
Safe packaging materials	Recommended: Product already packaged in appropriate packaging.		
SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION			

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8.1 Control parameters:			
Occupational exposure limits	Methanol: TWA/TLV 200 ppm (ACGIH); STEL 250 ppm (ACGIH). Brazil - NR 15, Annex 11: OEL 156 ppm / 200 mg/m³, with skin absorption.		
Biological indicators	Methanol in urine; sample collected at the end of the work shift; IBMP 15 mg/L (NR 7).		
8.2 Engineering control measures:			
Appropriate	Where applicable, use an appropriate exhaust system to ensure adequate ventilation in the workplace. Handle the product in an area with good natural or mechanical ventilation so as to keep the concentration of vapors/dust below the exposure limit. Emergency showers and eyewash stations should be made available in the work area. Engineering controls are the most effective measures for reducing exposure to the product.		
8.3 Personal protective measures:			
Eyeface protection: Wear safety glasses.			
Skin and body protection: Wear suitable protective clothing.			
Respiratory protection: Use respiratory protection with a filter for organic vapors. Where concentrations exceed exposure limits, use respiratory protection appropriate to the exposure conditions.			
Hand protection: Wear gloves when handling. Gloves must be inspected before use. Use an appropriate glove-removal technique (without touching the outer surface of the gloves), avoiding contact with the product.			
Thermal hazards: No thermal hazards are identified.			
Hygiene measures: Wash with soap and water after handling the product and before eating, drinking, smoking or using the restroom. Contact lenses represent a risk because they may absorb irritating particles. Keep workplaces within hygiene standards and ensure employees are aware of safe handling practices.			
Other information: The PPE used for treatment and disposal of product residues and packaging is the same as that used to handle the product.			
SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES			
9.1 Basic physical and chemical properties			
Physical state Liquid, solution.			
Color Not available.			
Odor Methanol: Characteristic.			
Molecular weight Not available.			
pH Not available.			
Melting point / Freezing point Methanol: -97.8°C.			

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Initial boiling point and boiling range	Methanol: 64.5°C.		
Flash point	27°C.		
Evaporation rate	Methanol: (ETHER = 1): 5.9.		
Flammability	Methanol: 11°C.		
Lower/upper flammability or explosive limits	Methanol: 6% v/v (lower) 36% v/v (upper).		
Relative vapor density	Methanol: 1.1.		
Density	Methanol: 0.800 at 20°C.		
Vapor pressure	Methanol: 92 mm Hg at 20°C.		
Solubility	Methanol: Soluble in water.		
Partition coefficient – n-octanol/water (Log Kow value)	Methanol: 100%.		
Auto-ignition temperature	Methanol: 385°C.		
Decomposition temperature	Not available.		
Viscosity	Not available.		
Particle characteristics	Not applicable.		
SECTION 10 - STABILITY AND REACTIVITY			
Reactivity:	No data are available on the reactivity of the formulated product. For methanol, the raw material SDS states that reactivity data are not available.		
Chemical stability:	The product is chemically stable under standard ambient conditions (room temperature).		
Possibility of hazardous reactions:	No data are available on the reactivity of the product. Methanol: Reacts vigorously with strong oxidizing agents and other incompatible substances. No data are available for the other ingredients in the formulation.		
Conditions to avoid:	Avoid high temperatures, ignition sources, prolonged exposure to direct sunlight and exposure to air with the package open.		
Incompatible materials:	Methanol: strong oxidizing agents, zinc, lead, aluminum, magnesium and strong acids.		
Hazardous decomposition products:	Burning or thermal decomposition may produce irritating and toxic gases, including carbon monoxide, carbon dioxide and formaldehyde (HCHO).		
SECTION 11 - TOXICOLOGICAL INFORMATION			

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ATE calculation: Oral LD50: > 200 mg/kg. Dermal LD50: > 200 mg/kg Inhalation LC50 (4 h): > 0.5 mg/L. The classification above was based on the ingredients using the additivity equation (Acute Toxicity Estimate - ATE) provided for by the GHS and NBR 14725. Acute toxicity: Information basis for Oral LD50, Dermal LD50 and Inhalation LC50 for the mixture ingredients: Methanol: Oral LD0 (humans): 143 mg/kg. Dermal LD50: 200 - 1,000 mg/kg Inhalation LC50 (4 h): 0.5 - 1 mg/L. Skin corrosion/irritation: No data are available for the formulated product. Methanol: does not cause skin irritation, according to rabbit data described in the raw material SDS. Serious eye damage/eye irritation: No data are available for the formulated product. Methanol: does not irritate the eyes, according to rabbit data described in the raw material SDS. Respiratory or skin sensitization: No data are available for the formulated product. Methanol: does not cause skin sensitization, according to the maximization test described in the raw material SDS. Germ cell mutagenicity: No data are available for the formulated product. Methanol: the in vitro and in vivo genotoxicity tests described in the raw material SDS showed negative results. Carcinogenicity: No data are available for the formulated product. Methanol: the raw material SDS states that it is not identified by IARC as a probable, possible or confirmed carcinogen. Reproductive toxicity and lactation: No data are available for the formulated product. Methanol: the available information does not suggest reproductive toxicity.			

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Specific target organ toxicity - single exposure:	No data are available for the formulated product. Methanol: may cause damage to organs; target organs described in the raw material SDS: central nervous system and optic nerve.		
Specific target organ toxicity - repeated exposure:	No data are available for the formulated product. Methanol: not classified for specific target organ toxicity following repeated exposure.		
Aspiration hazard:	No data are available for the formulated product. Methanol: not classified for aspiration hazard.		
SECTION 12 - ECOLOGICAL INFORMATION			
Ecotoxicity:	No data are available for the formulated product. Methanol: Fish (Oncorhynchus mykiss) - LC50 (96 h): 10,800 mg/L. Crustaceans (Daphnia magna) - EC50 (48 h): 24,500 mg/L. Algae - EC50 (72 h): 8,000 mg/L.		
Persistence and degradability:	No data are available for the formulated product. Methanol: readily biodegradable.		
Bioaccumulative potential:	No data are available for the formulated product. Methanol: low bioaccumulation potential (Log Pow -0.82/-0.66; BCF < 10).		
Mobility in soil:	No data are available for the formulated product. Methanol: volatile organic compound (VOC); may migrate to groundwater and/or evaporate rapidly.		
Other adverse effects:	No data are available for the formulated product. Methanol: in water, the half-life indicated in the raw material SDS is 1 to 10 days; in air, it undergoes photochemical degradation.		
SECTION 13 - DISPOSAL CONSIDERATIONS			
13.1 Recommended disposal methods:			
Product/Product residues:	Must be disposed of in accordance with local legislation. Treatment and disposal must be evaluated specifically for each product. Federal, state and municipal legislation should be consulted, including CONAMA Resolution 005/1993 and Law No. 12,305 of August 2, 2010 (National Solid Waste Policy). Keep product residues in their original, properly closed containers. Disposal must be carried out as established for the product.		
Used packaging:	Empty packaging must be stored in a covered, ventilated area, protected from rain and with an impermeable floor, as well as containment dikes. Do not reuse empty packaging. It may contain product residues and must be kept closed and sent for appropriate disposal as established for the product.		
SECTION 14 - TRANSPORT INFORMATION			
Waterway classification (Maritime, River, Lake) according to the International Maritime Dangerous Goods (IMDG) Code and the National Waterway Transportation Agency (ANTAQ):			
UN No./ID: UN1992			

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Proper shipping name: FLAMMABLE LIQUID, TOXIC, N.O.S. Hazard class or division: 3 Subsidiary hazard class or division: 6.1 Packing group: III - Description: UN1992, FLAMMABLE LIQUID, TOXIC, N.O.S. (Methanol), 3,(6.1) III			
Marine pollutant: Not available. EmS: F-E, S-D. Land classification (Rail, Road) according to the National Land Transportation Agency (ANTT): UN No./ID: UN1992 Proper shipping name: FLAMMABLE LIQUID, TOXIC, N.O.S. Hazard class or division: 3 Subsidiary hazard class or division: 6.1 Hazard identification number: 36 Packing group: III - Description: UN1992, FLAMMABLE LIQUID, TOXIC, N.O.S. (Methanol), 3, (6.1) III Special provision: 223,274 Excepted quantity for transport: Vehicle: 1000 kg / Inner packaging: 5 L			
Environmental hazard: Not available. Air classification according to International Aviation Organization – Technical Instructions (ICAO-TI) and the National Civil Aviation Agency (ANAC): UN No./ID: UN1992 Proper shipping name: FLAMMABLE LIQUID, TOXIC, N.O.S. Hazard class or division: 3 Subsidiary hazard class or division: 6.1 Packing group: III - Description: UN1992, FLAMMABLE LIQUID, TOXIC, N.O.S. (Methanol), 3, (6.1) III Environmental hazard: Not available.			

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Chemical incompatibility for transport	According to ABNT NBR 14619: This substance/product is incompatible with Class 1 substances and articles (explosives) and their respective divisions, except for Division 1.4 products in compatibility group S. Incompatible with Division 4.1+1 (self-reactive substances bearing the subsidiary explosive risk label) and Division 5.2+1 (organic peroxides bearing the subsidiary explosive risk).		
Shipping description: UN1992 FLAMMABLE LIQUID, TOXIC, N.O.S. (Methanol), 3, (6.1) III			
SECTION 15 - REGULATORY INFORMATION			
Decree No. 10,088/2019 - Consolidates regulatory acts issued by the Federal Executive Branch concerning the promulgation of conventions and recommendations of the International Labour Organization - ILO ratified by the Federative Republic of Brazil.			
Ordinance No. 229, of May 24, 2011, and its amendments – Amends Regulatory Standard No. 26.			
Regulatory Standard NR 26 – Safety signage.			
ABNT – Brazilian Association of Technical Standards - NBR 14725:2023.			
GHS criteria - Globally Harmonized System of Classification and Labelling of Chemicals (GHS): 2019 - published by the UN (United Nations), to which Brazil, like other countries, is a signatory.			
Resolution 5.998/22 - Updates the Regulation for Road Transport of Dangerous Goods and approves its Supplementary Instructions, and provides other measures.			
ABNT – Brazilian Association of Technical Standards - NBR 14619:2023 - Chemical incompatibility.			
ABNT – Brazilian Association of Technical Standards - NBR 7500:2023 - Identification for land transport, handling, movement and storage of products.			
Decree No. 10,088/2019 - Consolidates regulatory acts issued by the Federal Executive Branch concerning the promulgation of conventions and recommendations of the International Labour Organization - ILO ratified by the Federative Republic of Brazil.			