

	Safety data sheet - SDS	Issued: 19/09/2025	Revision 00
		Code: SDS 005	
Kolplagene			
SECTION 1 - IDENTIFICATION			
1.1. Product identification:		Kolplagene	
1.2. Other ways of identification:		Not available.	
1.3. Recommended uses of the chemical and restrictions on use:		Indicated for the collection and transport of biological material for genetic examination.	
1.4. Supplier Details:		Name: Kolplast CI Ltda. Address: Benedito de Souza Municipal Road, No. 418, Mina Neighborhood – Itupeva – Zip Code: 13,299-364 Telephone: + 55 11 4961-0900 Email: vendas@kolplast.com.br	
1.5. Emergency telephone number:		.+ 55 11 4961-0900	
SECTION 2 - HAZARD IDENTIFICATION			
2.1 Classification of the substance or mixture (Classification according to ABNT 14725:2023 standard)			
Skin corrosion/irritation (Category 3), H316 Serious eye damage/eye irritation (Category 1), H318 Aquatic hazard - Acute (Category 3), H402			
2.2 GHS labeling elements, including precautionary statements			
Pictogram:			
Word of warning:		Danger	
Additional statements		0.1% of the mixture consists of ingredient(s) with unknown acute oral toxicity. 0.1% of the mixture consists of ingredient(s) with unknown acute dermal toxicity. 5.01% of the mixture consists of ingredient(s) with unknown acute inhalation toxicity.	
Danger Phrases:		H316 - Causes moderate skin irritation. H318 - Causes serious eye damage. H402 - Harmful to aquatic life.	
Precautionary Phrases:		Prevention: P273 - Avoid release to the environment. P280 - Wear suitable protective gloves/clothing/safety glasses with side shields, face shields with mist filters.	
Emergency Response:		P310 - Immediately call a POISON CENTER. P332 + P313 - If skin irritation occurs: Get medical advice/attention.	

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Disposition:	P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.		
	P501 - Dispose of the contents/container in appropriate locations for waste/final disposal (appropriate landfill accredited by competent bodies and/or with specialized companies for incineration or other disposal in accordance with municipal and state laws in the region).		
2.3 Other hazards that do not result in a classification			
There are no other dangers.			
SECTION 3 - COMPOSITION AND INFORMATION ON INGREDIENTS			
3.1 Substance			
Not applicable.			
3.2 Mixing			
Chemical name	CAS Registration Number	Concentration range (%)	
Sodium Lauryl Sulfate	151-21-3	5%	
Proteinase K	39450-01-6	0,01%	
SECTION 4 - FIRST AID MEASURES			
4.1 Description of necessary first aid measures:			
After inhalation:	Remove the victim to fresh air and keep them rested and warm in a position that is comfortable for breathing. If the victim is not breathing, administer artificial respiration. Administer oxygen if the victim is having difficulty breathing. The effects of inhalation may not be immediate. Seek medical attention, taking this SDS with you.		
After skin contact:	Immediately wash the affected area with plenty of soap and water. Remove and wash contaminated clothing before reuse, and discard contaminated shoes. Seek medical attention, bringing this SDS with you.		
After eye contact:	Immediately rinse with plenty of water for 15 minutes. Keep eyelids open to ensure adequate rinsing. Remove contact lenses if possible. Preferably use an eye wash station. Seek medical attention, taking this SDS with you.		
After ingestion:	Drink large amounts of water. Do not induce vomiting, although it may occur spontaneously and should not be avoided. Lay the patient on their side to prevent aspiration. Never give anything by mouth if the victim is unconscious. Seek medical assistance, taking this SDS with you.		
What actions should be avoided:	Do not apply mouth-to-mouth resuscitation if the patient has ingested the product.		
Protection for first aid providers:	Avoid contact with the product when assisting the victim.		
4.2 Most important symptoms and effects, acute or delayed:			
Causes moderate skin irritation. Causes serious eye damage.			
4.3 Identification of immediate medical attention and special treatments required, if necessary:			

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There is no specific antidote. Treatment is symptomatic.			
SECTION 5 - FIRE FIGHTING MEASURES			
5.1 Extinguishing media			
Suitable: Foam, CO2 and dry chemical. Unsuitable: Water jet-based extinguishers should be avoided to prevent the product from spreading to other areas.			
5.2 Specific hazards arising from the substance or mixture			
Special Procedures Fight the fire from a safe distance. Wear full PPE and self-contained breathing apparatus (SCBA) with positive pressure. Use dikes to contain the water used in fighting the fire. Position yourself with your back to the wind. Use water fog to cool exposed equipment near the fire. Dangers arising from combustion Combustion of the chemical or its packaging can form irritating and toxic gases.			
5.3 Special protective measures for firefighting personnel			
Wear self-contained breathing apparatus (SCBA) with positive pressure and full protective clothing. Containers and tanks involved in the fire should be cooled with water mist.			
SECTION 6 - CONTROL MEASURES FOR SPILLS OR LEAKS			
6.1 Personal precautions, protective equipment and emergency procedures			
For non-emergency personnel: Isolate the spill or leak area for at least a 50-meter radius in all directions. In the event of a large spill, consider initial evacuation in a 300-meter downwind direction. Wear protective clothing, gloves, and eye protection. Do not touch, stand on, or walk through the spilled material. Avoid low-lying areas. Move away from the spill site, facing downwind (facing away from the wind) to avoid contamination. Remove ignition sources: Turn off the power and disconnect sources of sparks. Remove all materials that could cause a fire (e.g., spilled diesel oil). Dust control: Not applicable because it is a liquid. Prevention of inhalation and contact with skin, mucous membranes, and eyes: Use PPE as described in section 8. For emergency services personnel: Use PPE, see section 8. Ground all equipment used to handle the spilled product. Eliminate all possible sources of ignition, such as open flames, uninsulated hot elements, electrical or mechanical sparks, cigarettes, electrical circuits, etc. Prevent any action or procedure that generates sparks or flames.			
6.2 Environmental precautions			
Special Procedures Prevent contamination of waterways by sealing the entrance to storm drains. Prevent product residue from reaching water sources and prevent human and animal consumption. Build a dike around the spilled product.			
6.3 Methods and materials for containment of cleaning			

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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 bungs, sealing tape, or by inverting the hole/tear/dent upward. <u>Paved Floor</u> : Absorb the product with sawdust or sand, scoop up the material with a shovel, and place it in a sealed, properly labeled container. Spilled product should not be reused. <u>Soil</u> : Remove the layers of contaminated soil until you reach the uncontaminated soil, collect this material and place it in a sealed and properly identified container; <u>Bodies of water</u> : Stop collection for human or animal consumption, and contact the nearest environmental agency and the company's emergency center, as the measures to be adopted depend on the scale of the accident, the characteristics of the water body in question, and the quantity of the product involved.		
SECTION 7 - HANDLING AND STORAGE			
7.1 Precautions for safe handling:			
Guidelines for safe handling	Avoid inhaling vapors. Handle in a well-ventilated area. Wear appropriate protective equipment. Avoid contact with skin and eyes. Open and handle packages with care. Keep people, especially children and pets, away from the work area. Keep any leftover products in their original, properly closed packaging. If symptoms of poisoning occur, stop work immediately and proceed as described in Item 4 of this sheet.		
Prevention of worker exposure	Do not eat, drink, or smoke while handling the product. Wash your hands before eating, drinking, smoking, or using the restroom. When opening the package, do so in a way that avoids spills. Do not use damaged and/or defective personal protective equipment. Do not unclog nozzles, orifices, pipes, and valves with your mouth. Do not handle and/or carry damaged packaging. 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 food 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 packaging from physical damage. Keep the product in its original container. Keep any leftovers in their original, properly sealed packaging.		
Conditions to avoid	Damp places, heat sources and direct sunlight.		
Fire and explosion prevention	Keep the product away from heat, sparks, flames and other sources of ignition.		
Incompatible product and materials / other information	Keep away from incompatible materials, children, food, drinks, feed and other materials for human or animal consumption.		
Safe packaging materials	Recommended: Product already packaged in appropriate packaging.		
SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION			
8.1 Control Parameters:			
Occupational exposure limits	Not established.		

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Biological indicators	Not established.		
8.2 Engineering control measures:			
Adequate	When applicable, use an appropriate exhaust system to ensure adequate ventilation in the workplace. Handle the product in a location with good natural or mechanical ventilation to keep the vapor/dust concentration below the tolerance limit. It is recommended to have emergency showers and eyewash stations available in the work area. Engineering control measures are the most effective way to reduce exposure to the product.		
8.3 Personal protective measures:			
Eye/face protection: You must wear safety glasses.			
Skin and body protection: You must wear appropriate protective clothing.			
Respiratory protection: You must wear protective masks with mist filters.			
Hand protection: Handle with gloves. Gloves should be inspected before use. Use proper glove removal technique (without touching the outer surface of the gloves), avoiding contact with the product.			
Thermal hazards: It does not present thermal hazards.			
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. Maintain hygienic workplaces and educate employees on safe product handling.			
Other information: The PPE to be used for the treatment and disposal of product and packaging waste 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 Not available.			
Molecular weight Not available.			
pH Not available.			
Melting Point / Freezing Point Not available.			
Initial boiling point and boiling temperature range Not available.			
Flash point Not available.			
Evaporation rate Not available.			
Flammability Not available.			

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Lower/Upper Flammability or Explosive Limit Not available. Relative vapor density Not available. Density Not available. Vapor Pressure Not available. Solubility Not available. Partition coefficient – n-octanol/water (Log Kow value) Not available. Autoignition temperature Not available. Decomposition temperature Not available. Viscosity Not available. Particle characteristics Not applicable.			
SECTION 10 - STABILITY AND REACTIVITY			
Reactivity: No data is available regarding the product's reactivity. No data is available on the product's ingredients. Chemical Stability: The product is chemically stable under standard ambient conditions (room temperature). Possibility of hazardous reactions: No data is available regarding the product's reactivity. No data is available on the product's ingredients. Conditions to avoid: Avoid high temperatures, ignition sources, prolonged exposure to direct sunlight and exposure to air with the packaging open. Incompatible materials: No data is available regarding the product's reactivity. No data is available on the product's ingredients. Hazardous decomposition products: Burning can produce toxic and irritating gases.			
SECTION 11 - TOXICOLOGICAL INFORMATION			

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	ETAm calculation: LD50 Oral: 24,000.00 mg/kg. (With at least 0.1% of the ingredients are of unknown acute oral toxicity). LD50 Dermal: 40,000.00 mg/kg. (Whereas at least 0.1% of the ingredients are of unknown acute dermal toxicity). LC50 Inhalation (4hs): Classification impossible due to lack of data. (Whereas at least 5.01% of the ingredients are of unknown acute inhalation toxicity). This classification above was based on its ingredients using the additivity equation (Average Acute Toxicity Estimate - ETAm), provided for by GHS and NBR 14725. Oral, Dermal and Inhalation LD50 Information Base regarding the ingredients of the mixture: Acute toxicity: Sodium Lauryl Sulfate: LD50 Oral: 1,200 mg/kg. LD50 Dermal: 2,000 mg/kg. LC50 Inhalation (4hs): Not available. Proteinase K: LD50 Oral (rats): Not available. LD50 Dermal (rats): Not available. LC50 Inhalation (rats) (4h): Not available. Skin corrosion/irritation: There is no data on the formulated product. Sodium Lauryl Sulfate: Causes skin irritation. Proteinase K: Causes skin irritation. Serious eye damage/eye irritation: No data available on the formulated product. Sodium Lauryl Sulfate: Causes serious eye damage. Proteinase K: Causes serious eye irritation. Respiratory or skin sensitization: There is no data on the formulated product. Sodium Lauryl Sulfate: Non-sensitizing. Proteinase K: When inhaled, it may cause allergy symptoms, asthma, or breathing difficulties. Germ cell mutagenicity: There is no data on the formulated product. There is no data on the product's ingredients. Carcinogenicity: There is no data on the formulated product. There is no data on the product's ingredients. Reproductive and lactational toxicity: There is no data on the formulated product. There is no data on the product's ingredients. Systemic toxicity to certain target organs – single exposure: There is no data on the formulated product. There is no data on the product's ingredients. Specific target organ systemic toxicity – repeated exposures: There is no data on the formulated product. There is no data on the product's ingredients. Aspiration hazard: There is no data on the formulated product. There is no data on the product's ingredients.		

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SECTION 12 - ECOLOGICAL INFORMATION			
Toxicity to aquatic organisms:	Sodium Lauryl Sulfate: EC50 Algae (Selenastrum capricornutum) (72h): 120 mg/L. EC50 Microcrustaceans (Daphnia magna) 3.15 – 5.5 mg/L. LC50 Fish (Danio rerio) (96h): 29 mg/L.		
	Proteinase K: EC50 Algae: Not available. LC50 Microcrustaceans: Not available. LC50 Fish: Not available.		
	Persistence and degradability: There is no data on the formulated product. There is no data on the formulation ingredient.		
	Bioaccumulative potential: There is no data on the formulated product. There is no data on the formulation ingredient.		
	Mobility in soil: There is no data on the formulated product. There is no data on the formulation ingredient.		
	Other adverse effects: There is no data on the formulated product. There is no data on the formulation ingredient.		
SECTION 13 - CONSIDERATIONS ON FINAL DESTINATION			
13.1 Recommended methods for final disposal:			
Product/Product remains:	Must be disposed of in accordance with local legislation. Treatment and disposal must be assessed specifically for each product. Federal, state, and municipal legislation should be consulted, including: CONAMA Resolution 005/1993, Law No. 12,305 of August 2, 2010 (National Solid Waste Policy). Keep any remaining product in its original, properly sealed packaging. Dispose of as established for the product.		
	Used packaging:	Empty packaging should be stored in a covered, ventilated area, protected from rain, and with a waterproof floor and containment dikes. Do not reuse empty packaging. It may contain product residue and should be kept closed and disposed of appropriately as established for the product.	
SECTION 14 - TRANSPORTATION INFORMATION			

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Land Classification (Rail, Road) according to the National Land Transportation Agency (ANTT): O PRODUCT NOT COMPRISED BY THE CURRENT RESOLUTION ON THE TRANSPORTATION OF DANGEROUS PRODUCTS.			
Air Classification according to the International Aviation Organization – Technical Instructions (ICAO - TI) and the National Civil Aviation Agency (ANAC): O PRODUCT NOT COMPRISED BY THE CURRENT RESOLUTION ON THE TRANSPORTATION OF DANGEROUS PRODUCTS.			
Waterway Classification (Sea, River, Lake) according to International Maritime Dangerous Goods (IMDG) and National Waterway Transportation Agency (ANTAQ): O PRODUCT NOT COMPRISED BY THE CURRENT RESOLUTION ON THE TRANSPORTATION OF DANGEROUS PRODUCTS.			
SECTION 15 - REGULATIONS			
Decree No. 10.088/2019 - Consolidates normative acts edited by the federal executive power that provide for the promulgation of conventions and recommendations of the international labor 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 Labeling of Chemicals (GHS): 2019 - published by the UN (United Nations), which, like other countries, Brazil is a signatory.			
Resolution 5,998/22 - Updates the Regulation for the Road Transport of Dangerous Goods and approves its Complementary Instructions, and 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			
SECTION 16 - OTHER INFORMATION			
Recommended use- Follow all recommendations of use, storage, and disposal indicated by the manufacturer/registrant and described on the packaging, product package insert and cited in section 1 of this MSDS.			
Important Legal Notice Important- The data and information contained herein is provided in good faith and represent the best current knowledge about the matter, and are based from data supplied by the registrant company, manufacturer or importer of this product, available at the moment, however do not completely exhaust the subject. No warranty is given about the result of the application of such data and information, not absolving users/receivers /workers/employers of their responsibilities, at any stage of the handling, storage, processing, packaging and distribution of this material/product. Prevail over the data contained herein the provisions in the legislation, regulations and standards in force. The registrant assumes no liability for any losses, damages, or expenses related to the handling, storage, use or disposal of the product, repair of damages or compensation of any kind. Be warned that the handling of any chemical substance requires prior knowledge of its dangers by the user. The company using the product should promote the training of its employees and contractors regarding the possible risks coming from the product.			
This MSDS has been revised by Sudeste Online pursuant to Brazilian standards (ABNT NBR 14725). This document is			

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mandatory and provides information on various aspects of this material /chemical product regarding risks, handling, storage, emergency actions, protection, safety, health and to the environment, the supplier of this material/product to the user/receiver/workers.			
Glossary:			
ACGIH – American Conference of Governmental Industrial Higyenists;			
BCF - Bioconcentration Factor			
GHS – Globally Harmonized System			
CAS - Chemical Abstracts Service			
LC50 – Lethal concentration 50%			
LD50 – Lethal dose 50%			
EC50 - Effective concentration			
NFPA - National Fire Protection Association			
PPE - Personal Protection Equipment			
N/A - Not applicable;			
N/A - Not available;			
UN - The United Nations;			
OSHA - Occupational Safety and Health Administration;			
PEL -Permissible Exposure Limits;			
REL - Recommended Exposure Limits;			
TLV - Threshold limit value;			
TWA – Time Weighted Average.			
NBR - Brazilian Standard			
ABNT - Brazilian Technical Standards			
EPA – Environmental Protection Agency			