

SAFETY DATA SHEET (SDS)

Perfect Solution® preservative

Issue date: 20-09-2023

Section 1: Product Identifier and Chemical Identity

Product Identifier	
Product Name:	Specimens preserved in Perfect Solution®
Product Codes:	PM1.031, PM1.032, PM1.033, PM1.034, PM1.131, PM1.839, PM1.905, PM1.932, PM1.933, PM1.934, PM1.936, PM1.937, PM1.9372, PM1.938, PM1.939, PM1.943, PM7.031, PM8.035, PM8.434
Other means of identification:	
External product codes:	220118A 220115A
Manufacturer:	
Carolina Biological Supply Company	2700 York Road, Burlington, North Carolina, 27215, USA Website: www.carolina.com
Suppliers name, address and phone number	
Suppliers Name:	Southern Biological
Suppliers ABN:	94 630 703 810
Suppliers Address:	168 Fulham Road Alphington Victoria 3078 Australia
Suppliers Phone No.:	1300 138 561
Emergency Phone number (BH)	1300 138 561

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Specimens in Carolina's Perfect Solution®

CAROLINA[®]
www.carolina.com

Section 1 Product Description

Product Name: Specimens in Carolina's Perfect Solution®
Recommended Use: Science education applications
Synonyms: Specimens in Carosafe 2000
Distributor: Carolina Biological Supply Company
2700 York Road, Burlington, NC 27215
1-800-227-1150
Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)
Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

WARNING

Causes mild skin irritation

GHS Classification:
Skin Corrosion/Irritation Category 3

Section 3 Composition / Information on Ingredients

<u>Chemical Name</u>	<u>CAS #</u>	<u>%</u>
The composition of this mixture is proprietary and is protected as a Trade Secret.	Proprietary	100

Section 4 First Aid Measures

Emergency and First Aid Procedures

Inhalation: In case of accident by inhalation: remove casualty to fresh air and keep at rest.
Eyes: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Skin Contact: After contact with skin, wash immediately with plenty of water.
Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Section 5 Firefighting Procedures

Extinguishing Media: Use dry chemical, CO2 or appropriate foam.
Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
Fire and/or Explosion Hazards: Fire or excessive heat may produce hazardous decomposition products.
Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

Section 6 Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled: No health affects expected from the clean-up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section 8 of this (M)SDS. Ventilate the contaminated area.

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Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

Section 7 Handling and Storage

Handling: Avoid contact with skin and eyes. Wear suitable protective clothing, gloves and eye/face protection.
Storage: Keep container tightly closed in a cool, well-ventilated place.
Storage Code: Green - general chemical storage

Section 8 Protection Information

<u>Chemical Name</u>	<u>(TWA)</u>	<u>ACGIH</u>	<u>(STEL)</u>	<u>(TWA)</u>	<u>OSHA PEL</u>	<u>(STEL)</u>
Proprietary ingredient	N/A		1000 ppm	1000 ppm		N/A

Control Parameters

Engineering Measures: General room ventilation is recommended.
Personal Protective Equipment (PPE): Apron or Labcoat
Respiratory Protection:
Eye Protection: Wear appropriate eye protection when handling this product.
Skin Protection: Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.
Gloves: Butyl rubber, Neoprene, Nitrile, Polyvinyl chloride

Section 9 Physical Data

Formula: See Section 3	Vapor Pressure: No data available
Molecular Weight: Not applicable.	Evaporation Rate (BuAc=1): No data available
Appearance: Colorless Preserved Specimen	Vapor Density (Air=1): 0.9887
Odor: Moderate distinct biological and organic solvent odor	Specific Gravity: .99 (Carolina's Perfect Solution®)
Odor Threshold: No data available	Solubility in Water: Soluble
pH: 7	Log Pow (calculated): No data available
Melting Point: No data available	Autoignition Temperature: No data available
Boiling Point: No data available	Decomposition Temperature: No data available
Flash Point: > 93 C	Viscosity: No data available
Flammable Limits in Air: No data available	Percent Volatile by Volume: No data available

Section 10 Reactivity Data

Reactivity: Not generally reactive under normal conditions.
Chemical Stability: Stable under normal conditions.
Conditions to Avoid: Elevated temperatures
Incompatible Materials: Strong acids, Strong oxidizing agents
Hazardous Decomposition Products: Carbon dioxide, Carbon monoxide
Hazardous Polymerization: Will not occur

Section 11 Toxicity Data

Routes of Entry: Inhalation and ingestion.
Symptoms (Acute): Respiratory Irritation
Delayed Effects: Respiratory Irritation
Dermatitis
Headache

Acute Toxicity:	CAS Number	Oral LD50	Dermal LD50	Inhalation LC50
Chemical Name				

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Specimens in Carolina's Perfect Solution® Proprietary Oral LD50 Rat > 5000 mg/kg Dermal LD50 Rabbit Estimated > 20000 mg/kg Inhalation LC50 (4h) Rat Estimated > 20000 ppm

Carcinogenicity:

Chemical Name	CAS Number	IARC	NTP	OSHA
No data available		Not listed	Not listed	Not listed

Chronic Effects:

Mutagenicity: No evidence of a mutagenic effect.
Teratogenicity: Evidence of a teratogenic effect (birth defect).
Teratogenic effect only observed for chronic ingestion route of entry for one component.
Sensitization: No evidence of a sensitization effect.
Reproductive: No evidence of negative reproductive effects.
Target Organ Effects:
Acute: No information available
Chronic: No information available

Section 12

Ecological Data

Overview: This material is not expected to be harmful to the ecology.
Mobility: This material is expected to have high mobility in soil. It absorbs weakly to most soil types.
Persistence: Dissolved into water, Biodegradation, Evaporation into atmosphere
Bioaccumulation: Bioconcentration is not expected to occur.
Degradability: Biodegrades slowly.
Other Adverse Effects: Material has microbiocidal properties.

Chemical Name	CAS Number	Eco Toxicity
Specimens in Carolina's Perfect Solution®	Proprietary	

Section 13

Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.
Waste Disposal Code(s): This material is not considered to be a RCRA hazardous waste.

Section 14

Transport Information

Ground - DOT Proper Shipping Name:	Air - IATA Proper Shipping Name:
Not regulated for transport by US DOT	Not regulated for air transport by IATA.

Section 15

Regulatory Information

TSCA Status: All components in this product are on the TSCA Inventory.

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
No data available		No	No	No	No	No

California Prop 65:



WARNING: Cancer – www.P65Warnings.ca.gov

Section 16

Additional Information

Safety Data Sheet

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Replaces: 08/24/2018

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The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary

ACGIH	American Conference of Governmental Industrial Hygienists	NTP	National Toxicology Program
CAS	Chemical Abstract Service Number	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	PEL	Permissible Exposure Limit
DOT	U.S. Department of Transportation	ppm	Parts per million
IARC	International Agency for Research on Cancer	RCRA	Resource Conservation and Recovery Act
N/A	Not Available	SARA	Superfund Amendments and Reauthorization Act
		TLV	Threshold Limit Value
		TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health