

Material Safety Data Sheet



1. Product and Company Identification

Product Name Octave™ Ni-NTA SF Columns
Catalog Number C1001S, C1002S
Supplier Semba Biosciences, Inc.
505 South Rosa Road, Suite 106A
Madison, Wisconsin 53719
866-634-1114 or 608-441-8009
Fax: 608-441-8329
Emergency Contact Information 866-634-1114 or 608-441-8009

2. Composition/Information on Ingredients

Ingredient	CAS No.	%
Ni-NTA Resin	990-00-1	25-50%
Ethanol	64-17-5	25-50%

3. Hazards Identification

Hazard Description Harmful
Routes of Entry Dermal contact, eye contact, inhalation, ingestion.
Potential Acute Health Effects
Inhalation May cause sensitization by inhalation.
Ingestion Harmful if swallowed.
Skin May cause sensitization by skin contact.
Eyes May cause eye irritation.
Potential Chronic Health Effects
Carcinogenicity Limited evidence of a carcinogenic effect.
Mutagenicity Not available.
Teratogenicity Not available.
Developmental Effects 64-17-5 Ethanol

4. First Aid Measures

Eye Contact Remove contact lenses if wearing. Rinse opened eye with copious amounts of water for at least 15 minutes. Consult a physician.
Skin Contact Immediately wash with soap and water and rinse thoroughly.
Inhalation Move individual to fresh air. Consult physician in case of complaints.
Ingestion Immediately call a physician.

5. Fire-fighting Measures

Flammability of the Product Flammable
Suitable Extinguishing Media CO₂, dry chemical, water spray (fog), alcohol resistant foam
Unsuitable Extinguishing Agents Water with full jet
Special Protective Equipment for Fire-fighters Wear appropriate protective equipment and self-contained breathing apparatus with a full face-piece operated in positive pressure mode.

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6. Accidental Release Measures

Personal Precautions	Contact emergency personnel. Eliminate all ignition sources. Avoid breathing vapors, mist or gas.
Environmental Precautions	Avoid spread of spilled material and contamination of waterways, soil, drains and sewers. Notify appropriate authorities if product has caused environmental pollution.
Methods for Cleaning Up	Contain and collect spill with non-combustible, absorbent material (sand, diatomaceous earth, vermiculite) and dispose of according to federal, state and local regulations.

7. Handling and Storage

Handling	Avoid breathing vapors and contact with eyes and skin. Do not ingest. Use with adequate ventilation. Avoid all possible sources of ignition. Dispose of according to local regulations.
Storage	Avoid all possible sources of ignition.

8. Exposure Controls/Personal Protection

Engineering Controls	Use only with adequate ventilation. If dust, vapors or mists are generated provide local exhaust ventilation or other engineering controls to keep exposure to airborne contaminants below any recommended or statutory limits.
Hygiene Measures	Thoroughly wash hands, forearms and face after handling chemical products and before eating, smoking or using the lavatory and at the end of the working period. Appropriate techniques should be used to remove contaminated or potentially contaminated clothing. Wash contaminated clothing before reusing. Check that safety showers and eyewash stations are located near work areas.
Personal Protective Equipment	
Respiratory	If risk assessment indicates it is necessary, use a NIOSH (US) approved respiratory protective equipment. The selection of respiratory equipment must be based on anticipated exposure levels, product hazards and the safe working limits of the respirator.
Hands	Chemical resistant gloves complying with an approved standard.
Eyes	Tightly sealed goggles.
Skin	Personal protective equipment for the body should be selected based on the task being performed and the risks involved.
Environmental Exposure Controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. Physical and Chemical Properties

Physical State	Suspension
Color	Light green
Odor	Alcohol-like

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Melting Point	Undetermined
Boiling Point	78°C (172°F)
Flash Point	21-55°C (70-131°F)
Vapor Pressure	At 20°C: 59 hPa (44 mm Hg)
Auto Igniting	Product is not self-igniting
Solubility	Not miscible

10. Stability and Reactivity

Storage Stability	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	Reacts with acids, alkalis and oxidizing agents.
Materials to Avoid	Acids, alkalis, oxidizing agents
Conditions to Avoid	Open flames, sparks, static discharge, heat
Hazardous Decomposition Products	Danger of toxic pyrolysis products

11. Toxicological Information

Carcinogenicity	No known significant effects or critical hazards.
Mutagenicity	No known significant effects or critical hazards.
Teratogenicity	No known significant effects or critical hazards.

12. Ecological Information

Environmental Effects	Do not allow undiluted product or large quantities of it to reach ground water, waterways and sewers.
Further information	-

13. Disposal Considerations

Product	Observe all federal, state and local environmental regulations.
Contaminated Packaging	Dispose of the packaging in the same manner as unused product. Observe all federal, state and local environmental regulations.

14. Transport Information

DOT Regulations	
Hazard Class	3
Identification Number	UN1170
Packing Group	III
Proper shipping name (technical name)	ETHANOL SOLUTION
Label	3
Land Transport ADR/RID (Cross-border)	
ADR/RID Class	3 Flammable liquids
Danger Code (Kemler)	3
UN Number	1170
Packaging Group	III
Description of Goods	1170 ETHANOL (ETHYL ALCOHOL), mixture
Air Transport IATA	
IATA Class	3
UN/ID Number	1170

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Label	3
Packaging Group	III
Proper Shipping Name	ETHANOL SOLUTION
Maritime Transport IMDG	
IMDG Class	3
UN Number	1170
Label	3
Packaging Group	III
Marine Pollutant	No
Proper Shipping Name	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

15. Regulatory Information

SARA 313 Components	None of the ingredients are listed.
Proposition 65	
Chemicals known to cause cancer	None of the ingredients are listed.
Chemicals known to cause reproductive toxicity in females	None of the ingredients are listed.
Chemicals known to cause reproductive toxicity in males	None of the ingredients are listed.
Chemicals known to cause developmental toxicity	64-17-5 Ethanol
Massachusetts Right to Know Components	Ethanol
Pennsylvania Right to Know Components	Ethanol
New Jersey Right to Know Components	Ethanol
Hazards Symbol	Harmful
Risk Phrases	Flammable Harmful if swallowed. May cause sensitization by inhalation and skin contact.

16. Other Information

The information given herein is offered in good faith as accurate, but does not claim to be all inclusive and shall be used only as a guide. All materials may pose unknown hazards and should be used with caution. Users should consider this information supplemental to other information gathered by them and must determine independently the completeness and suitability of information from all sources with regard to the correct use, storage and disposal of these materials and the safety of employees, customers and the environment. Semba Biosciences, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product. This product is intended for research use only.

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