

# Material Safety Data Sheet



## 1. Product and Company Identification

**Product Name** Octave™ PQ Kit  
**Catalog Number** A1017K  
**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.	%
Octave PQ Column	-	-
Hydrophilic vinyl polymer	-	14-16%
Ethanol	64-17-5	14-16%
Water	7732-18-5	72-74%
Octave PQ Feed Solution	-	-
Blue dextran	87915-38-6	-
Vitamin B12	68-19-9	-
Octave PQ Desorbent	-	-

## 3. Hazards Identification

**Routes of Entry** Dermal contact, eye contact, inhalation, ingestion.  
**Potential Acute Health Effects**  
**Inhalation** May cause respiratory tract irritation.  
**Ingestion** May be harmful if swallowed.  
**Skin** May be harmful if absorbed through the skin. May cause skin irritation.  
**Eyes** May cause eye irritation.

## 4. First Aid Measures

**Eye Contact** In case of contact, remove contact lenses if wearing. Flush eyes with copious amounts of water for at least 15 minutes. Seek medical attention.  
**Skin Contact** In case of contact, wash skin thoroughly with soap and water. Rinse with copious amounts of water. Remove contaminated clothing and shoes.  
**Inhalation** If inhaled, move person to fresh air. If individual is not breathing, trained personnel should provide artificial respiration. If breathing is difficult, trained personnel should give oxygen. Seek medical attention.  
**Ingestion** Octave PQ Column: Induce vomiting by giving 2 glasses of water to drink and touching back of subject's throat with finger. Immediately see a physician. If vomiting occurs spontaneously, keep airway clear. Never give anything by mouth to an unconscious person.  
Octave PQ Feed Solution: If swallowed and victim is conscious, allow

Semba is a registered trademark of Semba Biosciences, Inc. The Semba logo is a trademark of Semba Biosciences, Inc.  
Octave is a trademark of Semba Biosciences, Inc.

# Material Safety Data Sheet



victim to wash out his mouth with water. Never give anything by mouth to an unconscious person. Do not induce vomiting unless directed to do so by medical personnel.

## 5. Fire-fighting Measures

---

<b>Flammability of the Product</b>	Flammable (Octave PQ Column, due to ethanol)
<b>Suitable Extinguishing Media</b>	Carbon dioxide, water spray, dry chemical, foam
<b>Special Protective Equipment for Fire-fighters</b>	Wear appropriate protective equipment and self-contained breathing apparatus if necessary.

## 6. Accidental Release Measures

---

<b>Personal Precautions</b>	Use appropriate personal protective equipment as described in section 8. Avoid breathing vapors, mist or gas. Avoid skin and eye contact. Avoid ingestion.
<b>Environmental Precautions</b>	Avoid spread of spilled material and contamination of waterways, soil, drains and sewers. Notify appropriate authorities if product has caused environmental pollution.
<b>Methods for Cleaning Up</b>	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

---

<b>Handling</b>	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 federal, state and local regulations.
<b>Storage</b>	Keep container tightly closed. Avoid all possible sources of ignition.

## 8. Exposure Controls/Personal Protection

---

<b>Engineering Controls</b>	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.
<b>Hygiene Measures</b>	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.
<b>Personal Protective Equipment Respiratory</b>	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.

Semba is a registered trademark of Semba Biosciences, Inc. The Semba logo is a trademark of Semba Biosciences, Inc. Octave is a trademark of Semba Biosciences, Inc.

# Material Safety Data Sheet



<b>Hands</b>	Compatible chemical-resistant gloves.
<b>Eyes</b>	Safety glasses, chemical safety goggles.
<b>Skin</b>	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

---

<b>Physical State</b>	Octave PQ Column (Bead slurry); Octave PQ Feed and Desorbent Solution (Liquid)
<b>Color</b>	Octave PQ Column (White)
<b>Odor</b>	Octave PQ Column (Alcohol odor)
<b>pH</b>	Octave PQ Column (6 to 8)

## 10. Stability and Reactivity

---

<b>Storage Stability</b>	Stable, but avoid contact with ignition sources.
<b>Materials to Avoid</b>	Octave PQ Column (acids, oxidizing agents, acid chlorides, acid anhydrides, alkali metals, organic peroxides)
<b>Conditions to Avoid</b>	Ignition sources

## 11. Toxicological Information

---

Acute Data (Octave PQ Column)  
Acute oral LD50, rat: >5000 mg/kg product

## 12. Ecological Information

---

<b>Environmental Effects</b>	No data available.
<b>Further information</b>	-

## 13. Disposal Considerations

---

<b>Product</b>	Observe all federal, state and local environmental regulations. Processing, use or contamination of this product may change the waste management options.
<b>Contaminated Packaging</b>	Dispose of the packaging in the same manner as unused product. Observe all federal, state and local environmental regulations.

Semba is a registered trademark of Semba Biosciences, Inc. The Semba logo is a trademark of Semba Biosciences, Inc. Octave is a trademark of Semba Biosciences, Inc.

# Material Safety Data Sheet



## 14. Transport Information

---

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

---

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

Semba is a registered trademark of Semba Biosciences, Inc. The Semba logo is a trademark of Semba Biosciences, Inc. Octave is a trademark of Semba Biosciences, Inc.

## 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.