

# MATERIAL SAFETY DATA SHEET

## 1. PRODUCT AND COMPANY IDENTIFICATION

<b>Product</b>	SOPE™ Resin
<b>Chemical characterization</b>	Proprietary Resin in buffered solution
<b>Supplier</b>	Edge BioSystems 201 Perry Parkway, Suite 5 Gaithersburg, MD 20877 Tel: 1.301.990.2685 1.800.326.2685 Fax: 1.301.990.0881 <a href="http://www.edgebio.com">www.edgebio.com</a>
<b>Emergency telephone number</b>	1.800.326.2685
<b>Product use</b>	Binding solution
<b>Canadian PIN</b>	N/A

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

<b>Hazardous components</b>	<b>Name</b>	<b>CAS Number</b>	<b>Weight %</b>
	Proprietary Resin	Proprietary	1 – 4
<b>Other components</b>	<b>Name</b>	<b>CAS Number</b>	<b>Weight %</b>
	Components not identified are not hazardous, or are below regulatory disclosure limits	N/A	N/A

See Section 15 of this MSDS for OSHA Regulatory Status

## 3. HAZARDS IDENTIFICATION

<b>Emergency overview</b>	White beads in colorless liquid with a slight vinegar odor. Causes eye irritation.  Product will not burn. However, dry resin will burn. Use extinguishing media suitable for the material that is burning.
<b>Primary route(s) of entry</b>	Skin, eyes.

## Symptoms of exposure

<b>Inhalation</b>	Breathing vapors or mist may cause irritation to respiratory tract.
<b>Eye contact</b>	Causes moderate irritation, felt as burning, tearing, pain.
<b>Skin contact</b>	May cause irritation.
<b>Ingestion</b>	May cause irritation to gastro-intestinal tract, adverse health effects.

**Medical conditions aggravated by exposure** None known.

**Listed as carcinogen or potential carcinogen** Not listed by OSHA, the International Agency for Research on Cancer (IARC), or the National Toxicology Program (NTP)

## 4. FIRST AID

<b>Inhalation</b>	Remove from area to fresh air. Seek medical attention if respiratory irritation develops or if breathing becomes difficult.
<b>Eye contact</b>	Immediately rinse eyes slowly and gently with water for at least 15 minutes while holding eyelids apart to ensure rinsing of the entire surface of the eyes and lids with water. Remove any contact lenses after the first 5 minutes and then continue flushing eyes. Get immediate medical attention.
<b>Skin contact</b>	Wash affected areas with plenty of water, and soap if available, for several minutes. Seek medical attention if irritation develops and persists.
<b>Ingestion</b>	Give 3-4 glasses of water, but DO NOT induce vomiting. If vomiting occurs, give fluids again. Get medical attention to determine whether vomiting or evacuation of stomach is necessary. Do not give anything by mouth to an unconscious or convulsing person.
<b>Note to physician</b>	Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

<b>Flash Point and Method</b>	N/A
<b>General hazard</b>	Does not present any special hazards.
<b>Extinguishing media</b>	Use media suitable for the material that is burning.
<b>Extinguishing media to avoid</b>	None
<b>Special firefighting instructions</b>	Move containers from area if it can be done without risk.
<b>Firefighting equipment</b>	As in any fire, wear NIOSH approved, positive-pressure, self-contained breathing apparatus and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	Wear appropriate protective equipment (see Section 8).
<b>Environmental precautions</b>	Keep out of sewers and waterways.
<b>Clean-up methods</b>	Absorb liquid with sand, kitty litter, sawdust, etc. Sweep up and place in a suitable container for disposal.

## 7. HANDLING AND STORAGE

<b>Handling</b>	Wear appropriate protective equipment (see Section 8). Avoid contact with eyes, skin or clothing. Wash after handling.
<b>Storage</b>	Keep container closed. Store in a dry place at room temperature.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Engineering controls</b>	General ventilation
<b>Personal Protection</b>	
<b>Respirator</b>	In operations where mists are generated, use a NIOSH approved respirator that has been selected by an industrial hygienist or other technically qualified person for the specific work conditions. If respirators are used, OSHA requires compliance with its respiratory protection program (29 CFR 1910.134).
<b>Eye Protection</b>	Wear safety glasses or vented safety goggles.
<b>Gloves</b>	Wear rubber gloves.
<b>Clothing</b>	Normal work clothing.
<b>Other</b>	Eye wash, emergency shower.
<b>Exposure controls</b>	N/E

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Form</b>	White beads in liquid phase
<b>Color</b>	Colorless liquid
<b>Odor</b>	Slight vinegar
<b>Properties</b>	pH: 7.0 Relative density (20°C): N/D Water solubility: Liquid phase is completely miscible.

## 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	Stable
<b>Materials to avoid</b>	None known

<b>Conditions to avoid</b>	None known
<b>Hazardous decomposition products</b>	Carbon dioxide and monoxide; amines; nitrogen oxides; potassium oxide; magnesium oxide.

<b>11. TOXICOLOGICAL INFORMATION</b>
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<b>Acute Toxicity</b>	No information on product available.
<b>Chronic Toxicity</b>	No information available.

<b>12. ECOLOGICAL INFORMATION</b>
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<b>Ecotoxicity</b>	No information on product available.
<b>Persistence/degradability</b>	No information on product available.

<b>13. DISPOSAL CONSIDERATIONS</b>
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<b>RCRA hazardous waste code</b>	Not regulated
<b>Special instructions</b>	Observe all federal, state and local laws and regulations.

<b>14. TRANSPORT INFORMATION</b>
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<b>DOT hazard class</b>	Not regulated
<b>TDG hazard class</b>	Not regulated

<b>15. REGULATORY INFORMATION</b>
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<b>OSHA regulatory status (29 CFR 1910.1200)</b>	Hazardous		
<b>CERCLA reportable quantity (40 CFR 117, 302)</b>	<b>Name</b>	<b>Reportable quantity (lbs)</b>	
	None	N/A	
<b>SARA extremely hazardous substances (40 CFR 355)</b>	<b>Name</b>	<b>Threshold planning quantity (lbs)</b>	<b>Reportable quantity (lbs)</b>
	None	N/A	N/A
<b>SARA hazard categories (40 CFR 370)</b>	Immediate (Acute)		
<b>SARA toxic chemicals (40 CFR 372)</b>	<b>Name</b>	<b>CAS Number</b>	<b>Percentage</b>
	None	N/A	N/A

<b>Inventory Status</b>	The chemicals in this product are listed on the US TSCA Chemical Substances Inventory and the Canadian Domestic Substances List.
<b>Toxic Substance Control Act</b>	No specific regulations apply.
<b>Controlled Products Regulations</b>	This product has been classified according to the hazard criteria of the Canadian Controlled Products Regulations, Section 33, and the MSDS contains all required information.
<b>WHMIS classification</b>	D2B
<b>State regulations</b>	N/A

## 16. OTHER INFORMATION

<b>Abbreviations</b>	<p>C – Ceiling limit  ERG – Emergency Response Guidebook  LC<sub>50</sub> – The concentration of a substance in air that will kill 50% of test animals within a certain exposure period.  LD<sub>50</sub> – The dose that causes death in 50% of test animals.  N/A – Not applicable  N/D – Not determined  N/E – Not established  N/K – Not known  PIN – Product Identification Number  RQ – Reportable Quantity  STEL – Short Term Exposure Limit  TPQ – Threshold Planning Quantity  TWA – Time Weighted Average  WHMIS – Workplace Hazardous Materials Information System</p>
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### Preparation information

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### Disclaimer

The above information is believed correct, but does not purport to be all-inclusive and shall only be used as a guide. Edge BioSystems shall not be held liable for any damage resulting from handling or from contact with the above product.