



MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

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

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components	Name	CAS Number	Weight %
	Proprietary Resin	Proprietary	1 – 4
Other components	Name	CAS Number	Weight %
	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

Emergency overview	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.
Primary route(s) of entry	Skin, eyes.

Symptoms of exposure	
Inhalation	Breathing vapors or mist may cause irritation to respiratory tract.
Eye contact	Causes moderate irritation, felt as burning, tearing, pain.
Skin contact	May cause irritation.
Ingestion	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

Inhalation	Remove from area to fresh air. Seek medical attention if respiratory irritation develops or if breathing becomes difficult.
Eye contact	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.
Skin contact	Wash affected areas with plenty of water, and soap if available, for several minutes. Seek medical attention if irritation develops and persists.
Ingestion	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.
Note to physician	Treat symptomatically.

5. FIRE FIGHTING MEASURES

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

breathing apparatus and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

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

7. HANDLING AND STORAGE

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	General ventilation
Personal Protection	
Respirator	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).
Eye Protection	Wear safety glasses or vented safety goggles.
Gloves	Wear rubber gloves.
Clothing	Normal work clothing.
Other	Eye wash, emergency shower.
Exposure controls	N/E

9. PHYSICAL AND CHEMICAL PROPERTIES

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

10. STABILITY AND REACTIVITY

Reactivity	Stable
Materials to avoid	None known
Conditions to avoid	None known
Hazardous decomposition products	Carbon dioxide and monoxide; amines; nitrogen oxides; potassium oxide; magnesium oxide.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity	No information on product available.
Chronic Toxicity	No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity	No information on product available.
Persistence/degradability	No information on product available.

13. DISPOSAL CONSIDERATIONS

RCRA hazardous waste code	Not regulated
Special instructions	Observe all federal, state and local laws and regulations.

14. TRANSPORT INFORMATION

DOT hazard class	Not regulated
TDG hazard class	Not regulated

15. REGULATORY INFORMATION

OSHA regulatory status (29 CFR 1910.1200)	Hazardous		
CERCLA reportable quantity (40 CFR 117, 302)	Name	Reportable quantity (lbs)	
	None	N/A	
SARA extremely hazardous substances (40 CFR 355)	Name	Threshold planning quantity (lbs)	Reportable quantity (lbs)
	None	N/A	N/A

SARA hazard categories (40 CFR 370)	Immediate (Acute)						
SARA toxic chemicals (40 CFR 372)	<table border="0"> <thead> <tr> <th>Name</th> <th>CAS Number</th> <th>Percentage</th> </tr> </thead> <tbody> <tr> <td>None</td> <td>N/A</td> <td>N/A</td> </tr> </tbody> </table>	Name	CAS Number	Percentage	None	N/A	N/A
Name	CAS Number	Percentage					
None	N/A	N/A					
Inventory Status	The chemicals in this product are listed on the US TSCA Chemical Substances Inventory and the Canadian Domestic Substances List.						
Toxic Substance Control Act	No specific regulations apply.						
Controlled Products Regulations	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.						
WHMIS classification	D2B						
State regulations	N/A						

16. OTHER INFORMATION

Abbreviations	<p>C – Ceiling limit ERG – Emergency Response Guidebook LC₅₀ – The concentration of a substance in air that will kill 50% of test animals within a certain exposure period. LD₅₀ – 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

Date prepared	November 22, 2006
Replaces	v.1
MSDS Number	4050172, 4050173, 4050174

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.