



MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Products Acella™ Electrocompetent Cells

Chemical characterization Pre-dispensed *E. coli* bacteria

Supplier Edge BioSystems
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Gaithersburg, MD 20877
Tel: 1.301.990.2685
1.800.326.2685
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Emergency telephone number 1.800.326.2685

Product use Used to amplify plasmids

Canadian PIN N/A

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	Name	CAS Number	Weight %
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No hazardous components

See Section 15 of this MSDS for OSHA regulatory status

3. HAZARDS IDENTIFICATION

Primary route(s) of entry Skin or eye contact from splashes.

Symptoms of exposure

Inhalation No toxicity expected from inhalation.

Eye contact May cause irritation of the eye.

Skin contact Contact may irritate or inflame the skin.

Ingestion May cause nausea or vomiting.

Medical conditions aggravated by exposure No data available.

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 person to fresh air. Obtain medical attention unless effects are mild and temporary.

Eye contact Flush opened eyes for several minutes under running water. Get medical attention if eyes become irritated.

Skin contact Wash skin with soap and water, rinsing thoroughly. Remove contaminated clothing.

Ingestion DO NOT induce vomiting and seek medical attention immediately. Drink 2 glasses of water or milk to dilute.

5. FIRE FIGHTING MEASURES

Flash Point and Method Not available

General hazard Not applicable.

Extinguishing media Use media suitable for the material that is burning, such as water spray, carbon dioxide, extinguishing powder or foam.

Extinguishing media to avoid None.

Special firefighting instructions Move containers from area if it can be done without risk.

Firefighting equipment Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Not required

Environmental precautions Keep out of sewers and waterways.

Clean-up methods Collect spilled liquid with liquid-binding material or inert absorbent and place it in container for disposal. Wash spill site after material pickup is complete.

7. HANDLING AND STORAGE

Handling No special handling measures are necessary. Good laboratory technique should be used when handling.

Storage No special storage measures are necessary. Store at -80°C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	General ventilation
Personal Protection	
Respirator	None required.
Eye Protection	Wear safety glasses or vented safety goggles.
Gloves	Wear rubber gloves.
Clothing	Normal work clothing.
Other	Eye wash, emergency shower.
Exposure controls	The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Liquid.
Color	Colorless.
Odor	Odorless.
Vapor pressure	N/D
Vapor density	N/D
Specific gravity/density	N/D
Evaporation rate	N/D

10. STABILITY AND REACTIVITY

Reactivity	Stable.
Conditions to avoid	None known.
Hazardous decomposition products	None known.

11. TOXICOLOGICAL INFORMATION

May be irritating to eyes and skin.

12. ECOLOGICAL INFORMATION

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

13. DISPOSAL CONSIDERATIONS

RCRA hazardous waste code Not applicable.

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)** Irritant

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)** None

SARA toxic chemicals (40 CFR 372)	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. This product is solely for research and development purposes only and may not be used, processed or distributed for a commercial purpose. It may only be handled by technically qualified individuals.
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>
Date prepared	January 18, 2006
Replaces	New
MSDS Number	6050023
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.