



MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product	Ultra BL21 (DE3) Competent Cells (Cat. No. 45363)
Chemical characterization	<i>E. coli</i> bacteria pre-dispensed into individual tubes
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	Used to amplify plasmids
Canadian PIN	N/A

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	Name	CAS Number	Weight %
No hazardous components			

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	Not 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	Rinse 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	Rinse mouth. Drink plenty of water. Get medical attention if irritation or symptoms occur.

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 -70°C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	General ventilation
Personal Protection	
Respirator	Not 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

10. STABILITY AND REACTIVITY

Reactivity	Stable
Materials to avoid	None known
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.
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)
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None		N/A
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SARA extremely hazardous substances (40 CFR 355)	Name	Threshold planning quantity (lbs)	Reportable quantity (lbs)
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None		N/A	N/A
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SARA hazard categories (40 CFR 370) None

SARA toxic chemicals (40 CFR 372)	Name	CAS Number	Percentage
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None		N/A	N/A
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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	C – Ceiling limit ERG – Emergency Response Guidebook LC ₅₀ – The concentration of a substance in air that will kill 50% of test animals within a certain exposure period. LD ₅₀ – 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
Date prepared	August 5, 2004
Replaces	New
MSDS Number	6050001
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.