



Kit MSDS Cover Sheet

Doc. ID: OAX04523-75: Rev. AA
Issued (year/month/day) 2009/11/13

Product Information

Product Name	Cell Extraction Kit
Part Number	OAX04523
Additional Product Information	For Research Use Only. See product literature for details.

Components

Description
Lysis Enzyme 10x Lysis Buffer 3

Transport Information


Transportation of this product is not regulated under ICAO, IMDG, US DOT, European ADR or Canadian TDG.



MATERIAL SAFETY DATA SHEET

Cell Extraction Kit
 Doc. ID: OAX04523-75 AA
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Section 1 Company and Product Identification

Product Name	Lysis Enzyme
Part Number	Component of P/N OAX04523
Product Use	For Research Use Only. See product literature for details.
Manufacturer	Beckman Coulter Biomedical GmbH Sauerbruchstraße 50 81377 Munich, Germany Tel: +49-89-579589-3540 Fax: +49-89-579589-3503 Email: support@advalytix.com
Distributor and Emergency Phone No.	 Refer to attached list, Document ID: 472050 , for local distributor and emergency phone numbers.

Section 2 Hazards Identification

Emergency Overview	Colorless; Clear; Liquid; Odorless Nonflammable aqueous solution. Does not meet EU, OSHA or WHMIS criteria for hazardous materials.		
Physical Hazards	No physical hazards were determined from a review of available literature.		
Potential Health Effects Summary	This product does not meet EU, OSHA or WHMIS criteria for hazardous materials.		
Potential Environmental Effects	Not available		
Product Hazard Classifications	Meets Hazardous Criteria for Preparation/Mixture		
	EU: Not applicable	WHMIS: Not applicable	US OSHA: Not applicable

Section 3 Composition and Information on Ingredients

Hazardous Ingredients:	None
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Section 4 First Aid Measures

Inhalation	If product is inhaled, move exposed individual to fresh air. If individual is not breathing, begin artificial respiration immediately and obtain medical attention.
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Section 4 First Aid Measures (Continued)

Eye Contact	If product enters eyes, wash eyes gently under running water for 15 minutes or longer, making sure that the eyelids are held open. If pain or irritation occur, obtain medical attention.
Skin Contact	In case of skin contact, flush with copious amounts of water for at least 15 minutes. If pain or irritation occur, obtain medical attention.
Ingestion	If ingested, wash mouth out with water. If irritation or discomfort occurs, seek medical attention.

Section 5 Fire Fighting Measures

Flammable Properties	Nonflammable aqueous solution.
Extinguishing Media	Use extinguishing media suitable for surrounding fire.
Special Fire and Explosion Hazards	No special hazards determined.
Hazardous Combustion Products	No combustion products posing significant hazards are expected from this product (an aqueous solution).
Protective Equipment for Firefighters	Self-contained breathing apparatus is recommended for firefighters in all chemical fire situations.

Section 6 Accidental Release Measures

Personal Precautions	No special precautions are necessary. Use good laboratory procedures.
Spill and Leak Procedures	Absorb spilled material with an appropriate inert, non-flammable absorbent and dispose according to local regulations.
Environmental Precautions	Contain spill to prevent migration.

Section 7 Handling and Storage

Handling Precautions	No special precautions are necessary; use good laboratory procedures.
Recommended Storage Conditions	Keep away from incompatible material (see Section 10). To maintain efficacy, store according to the instructions in the product labeling.

Section 8 Exposure Controls and Personal Protection

Exposure Limits	
US OSHA:	None established
ACGIH:	None established
DFG MAK:	None established
NIOSH	None established

Section 8 Exposure Controls and Personal Protection (Continued)

Japan	None established
Engineering Controls	No special engineering controls are required. Use with good general ventilation.
Respiratory Protection	Under normal conditions, the use of this product should not require respiratory protection.
Eye Protection	Safety glasses or chemical goggles should be worn to prevent eye contact.
Skin Protection	Impervious gloves, such as Nitrile or equivalent, should be worn to prevent skin contact.

Section 9 Physical and Chemical Properties

Physical State	Liquid
Color	Colorless
Transparency	Clear
Odor	Odorless
Odor Threshold	Not applicable
pH	Not available
Freezing Point	Not available
Boiling Point	Not available
Flash Point	Not available
Evaporation Rate	Not available
Flammability (Solid, Gas)	Not applicable
Flammable Limits	Not applicable
Vapor Pressure	Not available
Vapor Density	Not available
Specific Gravity	≈ 1 @20°C
Solubility	
Water	Miscible
Organic	Not available
Coefficient of Water/Oil Distribution	Not available
Autoignition Temp.	Not applicable
Decomposition Temperature	Not available
Percent Volatiles	Not applicable

Section 10 Stability and Reactivity

Stability	Stable under normal temperatures and pressures.
Hazardous Incompatibilities	Strong acids Strong bases Strong oxidizers
Hazardous Decomposition Products	No decomposition products posing significant hazards would be expected from this product (an aqueous solution).
Conditions to Avoid	Avoid contact with incompatible materials.

Section 11 Toxicological Information

Toxicity Data for Hazardous Ingredients	Not applicable
Primary Routes of Exposure	Eye contact, ingestion, inhalation, and skin contact.
Potential Effects of Acute Exposure	None identified.
Potential Effects of Chronic Exposure	None identified.
Symptoms of Overexposure	None identified.
Carcinogenicity	No ingredients in this product are listed as carcinogens by ACGIH, IARC, NTP, OSHA or 67/548/EEC Annex I.
Other Effects	None identified.
Conditions Aggravated by Exposure	None identified.

Section 12 Ecological Information

Ecotoxicity	No information available.
Biodegradability	No information available.
Bioaccumulation	No information available.
Mobility	No information available.
Other Adverse Effects	No information available.

Section 13 Disposal Considerations

Waste Disposal

Dispose of waste product, unused product and contaminated packaging in compliance with federal, state and local regulations. If unsure of the applicable requirements, contact the authorities for information.

Section 14 Transport Information

Transportation of this product is not regulated under ICAO, IMDG, US DOT, European ADR or Canadian TDG.

Section 15 Regulatory Information

US Federal and State Regulations

SARA 313 No ingredients listed.

**CERCLA RG's,
40 CFR 302.4** No ingredients listed.

California Proposition 65 No ingredients listed.

Massachusetts MSL No ingredients listed.

**New Jersey Dept. of
Health RTK List** No ingredients listed.

Pennsylvania RTK No ingredients listed.

EU Labeling Classification

Preparation not classified.

Canada

This product does not meet WHMIS criteria for hazardous materials.

PIN: Not applicable

**Ingredients on Ingredient
Disclosure List:** None

**Ingredients with unknown
toxicological properties:** None

Some hazardous ingredients listed in Section 15 are below OSHA's and WHMIS' 1.0% w/w (0.1% for carcinogens) or EU's ingredient specific concentrations required for reporting in Section 3.

Section 16 Other Information

Beckman Coulter Safety Rating

Flammability (Section V): 0
Health (Section XI): 1
Reactivity with Water (Section X): 0
Contact (Section VIII): 1

Code
0=none
1=slight
2=caution
3=severe

For further information, please contact your local Beckman Coulter representative.

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Boiling Point	Not available
Flash Point	Not applicable
Evaporation Rate	Not available
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Vapor Density	Not available
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