

SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

- **Product Name:** EzSubcellExtract
 - **Product Code:** WSE-7421
 - **SDS No.:** A0032_1
 - **General Use:** For research use only

 - **Manufacturer:**
 - **Company Name:** ATTO Corporation
 - **Address:** 2-2, Motoasakusa 3-chome, Taito-ku, Tokyo 111-0041, Japan
 - **Department in Charge:** Headquarters, Customer Department
 - **Telephone No.:** +81-3-5827-4861
 - **Fax No.:** +81-3-5827-6647
 - **Emergency Telephone:** +81-3-5827-4863
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2. HAZARDS IDENTIFICATION

GHS Classification:

- **Specific target organ toxicity (single exposure):** Category 2 (Respiratory system)

GHS Label Elements:

- **Signal Word:** Warning
- **Pictogram:**



Hazard Statement:

- **H371:** May cause damage to organs (Respiratory system).

Precautionary Statements:

- **Prevention:**
 - **P260:** Do not breathe dust/fume/gas/mist/vapors/spray.
 - **P264:** Wash hands and face thoroughly after handling.
 - **P270:** Do not eat, drink or smoke when using this product.
- **Response:**
 - **P308+P316:** IF exposed or concerned: Call a POISON CENTER or doctor.

- **Storage:**
 - **P405:** Store locked up.
- **Disposal:**
 - **P501:** Dispose of contents/container to an approved waste disposal plant in accordance with local/regional/national regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

- **Distinction of Substance or Mixture:** Mixture

WSE-7421 EzSubcell Extract : Mixtures			
Extraction buffer 1			
Chemical Name	wt(%)	Chemical Formula	CAS Registry No.
Sodium chloride	0.9%	ClNa	7647-14-5
Extraction buffer 2			
Chemical Name	wt(%)	Chemical Formula	CAS Registry No.
Sucrose	9.6%	C12H22O11	57-50-1
Extraction buffer 3			
Chemical Name	wt(%)	Chemical Formula	CAS Registry No.
Sucrose	9.6%	C12H22O11	57-50-1
Extraction buffer 4			
Chemical Name	wt(%)	Chemical Formula	CAS Registry No.
Sodium chloride	0.9%	ClNa	7647-14-5
Protease Inhibitor			
Chemical Name	wt(%)	Chemical Formula	CAS Registry No.
Dimethyl sulfoxide	70%	C2H6OS	67-68-5
DNase 1			
Chemical Name	wt(%)	Chemical Formula	CAS Registry No.
Glycerol	50%	C3H8O3	56-81-5

4. FIRST AID MEASURES

- **Inhalation:** Remove victim to fresh air and keep at rest. Call a physician if necessary.
 - **Skin Contact:** Wash with plenty of soap and water. If skin irritation occurs, get medical advice.
 - **Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
 - **Ingestion:** Rinse mouth. Do not induce vomiting without medical advice. Seek medical attention if you feel unwell.
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5. FIRE FIGHTING MEASURES

- **Extinguishing Media:** Water spray, carbon dioxide (CO₂), dry chemical powder, foam.
 - **Specific Hazards:** Thermal decomposition can lead to release of irritating and toxic gases such as carbon monoxide (CO), carbon dioxide (CO₂), sulfur oxides (SO_x), and sulfur dioxide.
 - **Protection of Firefighters:** Wear self-contained breathing apparatus (SCBA) and full protective gear.
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6. ACCIDENTAL RELEASE MEASURES

- **Personal Precautions:** Wear appropriate protective equipment (gloves, safety glasses, etc.). Ensure adequate ventilation.
 - **Environmental Precautions:** Prevent entry into drains, sewers, or rivers.
 - **Cleanup Methods:** Absorb spill with inert material (e.g., sand, silica gel, acid binder, universal binder) and place in a container for disposal.
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7. HANDLING AND STORAGE

- **Handling:**
 - Use in a well-ventilated area.
 - Avoid contact with skin, eyes, and clothing.
 - Do not breathe vapors or mist.
 - **Storage:**
 - Store in a cool, dark place. Keep container tightly closed and locked up.
 - Keep away from heat, sparks, and open flames.
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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- **Engineering Controls:** General ventilation is recommended. Provide eye-wash stations and safety showers near the handling area.
 - **Personal Protective Equipment:**
 - **Respiratory:** Protective mask as needed.
 - **Hand:** Protective gloves (nitrile or rubber).
 - **Eye:** Safety glasses with side-shields or goggles.
 - **Skin and Body:** Long-sleeved protective clothing and boots.
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9. PHYSICAL AND CHEMICAL PROPERTIES**Extraction Buffer 1**

Appearance : liquid (clear)
Odor : Odorless
pH : 7 ~ 8
Boiling Point / Boiling Range
: Not available
Melting Point / Melting Range
: Not available
Decomposition Temperature
: Not available
Flash Point : Not available
Auto Ignition Temperature
: Not available
Flammability : Not flammable
Explosive Properties : Not available
Oxidizing Properties : Not available
Vapor Pressure : Not available
Relative Density : Not available
Solubility : Not available
Partition Coefficient(n-octanol /water)
: Not available
Viscosity : Not available
Vapor Density : Not available
Evaporation Rate : Not available

Extraction Buffer 2

Appearance : liquid (clear)
Odor : Odorless
pH : 7 ~ 8
Boiling Point / Boiling Range
: Not available
Melting Point / Melting Range
: Not available
Decomposition Temperature
: Not available

Flash Point : Not available

Auto Ignition Temperature
: Not available

Flammability : Not flammable

Explosive Properties : Not available

Oxidizing Properties : Not available

Vapor Pressure : Not available

Relative Density : Not available

Solubility : Not available

Partition Coefficient(n-octanol /water)
: Not available

Viscosity : Not available

Vapor Density : Not available

Evaporation Rate : Not available

Extraction Buffer 3

Appearance : liquid (clear)

Odor : Odorless

pH : 7 ~ 8

Boiling Point / Boiling Range
: Not availableMelting Point / Melting Range
: Not availableDecomposition Temperature
: Not available

Flash Point : Not available

Auto Ignition Temperature
: Not available

Flammability : Not flammable

Explosive Properties : Not available

Oxidizing Properties : Not available

Vapor Pressure : Not available

Relative Density : Not available

Solubility : Not available

Partition Coefficient(n-octanol /water)
: Not available

Viscosity : Not available

Vapor Density : Not available

Evaporation Rate : Not available

Extraction Buffer 4

Appearance : liquid (clear)

Odor : Odorless

pH : 7 ~ 8

Boiling Point / Boiling Range
: Not availableMelting Point / Melting Range
: Not availableDecomposition Temperature
: Not available

Flash Point : Not available

Auto Ignition Temperature
: Not available

Flammability : Not flammable

Explosive Properties : Not available

Oxidizing Properties : Not available

Vapor Pressure : Not available

Relative Density : Not available

Solubility : Not available

Partition Coefficient(n-octanol /water)
: Not available

Viscosity : Not available

Vapor Density : Not available

Evaporation Rate : Not available

Protease Inhibitor

Appearance : liquid (clear)

Odor : Odorless

pH : Not available

Boiling Point / Boiling Range
: Not available

Melting Point / Melting Range

: Not available

Decomposition Temperature

: Not available

Flash Point : Not available

Auto Ignition Temperature

: Not available

Flammability : Not available

Explosive Properties : Not available

Oxidizing Properties : Not available

Vapor Pressure : Not available

Relative Density : Not available

Solubility : Not available

Partition Coefficient(n-octanol /water)

: Not available

Viscosity : Not available

Vapor Density : Not available

Evaporation Rate : Not available

DNase I

Appearance : liquid (clear)

Odor : Odorless

pH : Not available

Boiling Point / Boiling Range

: Not available

Melting Point / Melting Range

: Not available

Decomposition Temperature

: Not available

Flash Point : Not available

Auto Ignition Temperature

: Not available

Flammability : Not available

Explosive Properties : Not available

Oxidizing Properties : Not available

Vapor Pressure : Not available

Relative Density : Not available

Solubility : Not available
Partition Coefficient(n-octanol /water)
: Not available
Viscosity : Not available
Vapor Density : Not available
Evaporation Rate : Not available

10. STABILITY AND REACTIVITY

- **Stability:** Stable under recommended storage conditions.
 - **Conditions to Avoid:** Heat, flames, sparks, and direct sunlight.
 - **Incompatible Materials:** Strong oxidizing agents.
 - **Hazardous Decomposition Products:** Carbon monoxide (CO), Carbon dioxide (CO₂), Sulfur oxides (SO_x), Sulfur dioxide gas.
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11. TOXICOLOGICAL INFORMATION

(Data for Dimethyl sulfoxide)

- **Acute Oral:** LD₅₀ (rat) = 14,500 mg/kg.
 - **Skin Corrosion/Irritation:** No data available.
 - **Serious Eye Damage/Irritation:** No data available.
 - **Germ Cell Mutagenicity:** No data available.
 - **STOT Single Exposure:** May cause damage to the respiratory system (Category 2).
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12. ECOLOGICAL INFORMATION

- **Ecotoxicity:** No data available.
 - **Persistence and Degradability:** No data available.
 - **Bioaccumulative Potential:** No data available.
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13. DISPOSAL CONSIDERATIONS

- **Residual Waste:** Dispose of in accordance with local and national regulations. Use a licensed waste disposal contractor.
 - **Contaminated Packaging:** Clean container with water before disposal or recycle according to local regulations.
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14. TRANSPORT INFORMATION

- **UN Classification:** Not applicable (Not restricted for transport).
 - **UN Number:** Not applicable.
 - **Marine Pollutant:** Not applicable.
 - **Precautions:** Ensure that there is no leakage. Prevent collapse of cargo piles.
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15. REGULATORY INFORMATION (JAPAN)

- **Industrial Safety and Health Act (ISHA):** Dangerous and Harmful Substances requiring SDS Notification (Article 57-2).
 - **Pollutant Release and Transfer Register (PRTR) Law:** Not applicable.
 - **Fire Service Act:** Hazardous Material Class 4, Group 3 Petroleum (Water-soluble), Hazard Class 3 (Dimethyl sulfoxide, glycerol)
 - **Poisonous and Deleterious Substances Control Act:** Not applicable.
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16. OTHER INFORMATION

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