

SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

- **Product Name:** Ez Run C+
- **Product Code:** AE-1412
- **SDS No.:** A0003-1
- **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

2. HAZARDS IDENTIFICATION

GHS Classification:

- **Acute toxicity (Oral):** Category 4
- **Acute toxicity (Dermal):** Category 2
- **Serious eye damage/eye irritation:** Category 1
- **Specific target organ toxicity (single exposure):** Category 2 (Central Nervous System)
- **Aquatic environment (Acute hazard):** Category 2

GHS Label Elements:

- **Signal Word:** Danger
- **Pictograms:**



Hazard Statements:

- **H302:** Harmful if swallowed
- **H310:** Fatal in contact with skin
- **H318:** Causes serious eye damage
- **H371:** May cause damage to the central nervous system
- **H401:** Toxic to aquatic life

Precautionary Statements:

- **Prevention:**
 - P260 Do not breathe dust/fume/gas/mist/vapors/spray.
 - P262 Do not get in eyes, on skin, or on clothing.
 - P264 Wash hands and face thoroughly after handling.
 - P270 Do not eat, drink or smoke when using this product.
 - P273 Avoid release to the environment.
 - P280 Wear protective gloves/protective clothing/eye protection/face protection.
- **Response:**
 - P301+P317 IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor.
 - P302+P352 IF ON SKIN: Wash with plenty of water. Immediately call a POISON CENTER or doctor.
 - P305+P354+P338 IF IN EYES: Immediately rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
 - P308+P316 If exposed or concerned: Call a POISON CENTER or doctor for immediate medical treatment.
 - P361+P364 Take off immediately all contaminated clothing and wash it before reuse.
- **Storage:**
 - P405 Store locked up.
- **Disposal:**
 - P501 Dispose of contents/container to a specialized waste disposal company approved by the prefectural governor.

3. COMPOSITION/INFORMATION ON INGREDIENTS

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

Chemical Name	wt(%)	Chemical Formula	CAS Registry No.
Sodium Dodecyl Sulfate	4.1%	C ₁₂ H ₂₅ NaO ₄ S	151-21-3
2-Amino-3-mercaptopropanoic acid	25%>	C ₃ H ₇ NO ₂ S	52-90-4

4. FIRST AID MEASURES

- **Inhalation:** Remove to fresh air. Call a physician.
- **Skin Contact:** Immediately wash with soap and plenty of water. Call a physician.

- **Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediate medical attention is required.
 - **Ingestion:** Rinse mouth. Do not give anything by mouth to an unconscious person. Contact a doctor or poison control center immediately. Do NOT induce vomiting unless instructed by medical personnel.
 - **Protection of First-aiders:** Wear personal protective equipment as required.
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5. FIRE FIGHTING MEASURES

- **Extinguishing Media:** Water spray (fog), carbon dioxide (CO₂), foam, dry chemical powder, sand.
 - **Specific Hazards:** Thermal decomposition can lead to release of irritating and toxic gases and vapors.
 - **Protection of Firefighters:** Wear self-contained breathing apparatus (SCBA) and full firefighting turnout gear.
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6. ACCIDENTAL RELEASE MEASURES

- **Personal Precautions:** Ensure adequate ventilation. Wear appropriate protective equipment to prevent skin contact and inhalation. Keep unnecessary personnel away.
 - **Environmental Precautions:** Prevent product from entering drains, rivers, or other environments.
 - **Cleanup Methods:** Sweep up spilled material and place in a sealed container for disposal. Wash the spill site with plenty of water.
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7. HANDLING AND STORAGE

- **Handling:**
 - Use with local exhaust ventilation.
 - Avoid contact with skin, eyes, and clothing.
 - Prevent leakage, overflow, and scattering. Do not generate dust or vapors unnecessarily.
 - Wash hands and face thoroughly after handling.
- **Storage:**
 - Store in a cool, well-ventilated place away from direct sunlight. Keep container tightly closed and locked up.
 - Safe Packaging Materials: Polyethylene, Polypropylene.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- **Engineering Controls:** Seal the source or use a local exhaust system for indoor work. Provide safety showers and eye-wash stations near the handling area.
 - **Personal Protective Equipment:**
 - **Respiratory:** Dust mask.
 - **Hand:** Protective gloves.
 - **Eye:** Protective eyeglasses with side shields or chemical safety goggles.
 - **Skin and Body:** Suitable protective clothing and boots.
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9. PHYSICAL AND CHEMICAL PROPERTIES

- **Physical State:** Powder
 - **Color:** White
 - **Odor:** Characteristic odor
 - **pH / Melting Point / Boiling Point:** No data available
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10. STABILITY AND REACTIVITY

- **Stability:** Stable under recommended storage conditions.
 - **Reactivity:** No data available.
 - **Conditions to Avoid:** High temperatures and direct sunlight.
 - **Incompatible Materials:** Strong oxidizing agents.
 - **Hazardous Decomposition Products:** Carbon monoxide (CO), carbon dioxide (CO₂), sulfur oxides (SO_x).
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11. TOXICOLOGICAL INFORMATION

(Data for Sodium Dodecyl Sulfate)

- **Acute Oral:** LD₅₀ (rat) 1,200 – 2,730 mg/kg.
 - **Acute Dermal:** LD₅₀ (rabbit) approx. 580 – 600 mg/kg (Classified as Category 2).
 - **Skin Corrosion/Irritation:** Highly irritating (rabbit).
 - **Serious Eye Damage/Irritation:** Moderately irritating to irritating (rabbit). Classified as Category 1 based on severe risk.
 - **STOT Single Exposure:** Airway irritation observed in animal aerosol exposure; may cause central nervous system effects (Category 2).
 - **STOT Repeated Exposure:** Liver weight increase and renal damage observed in rats.
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12. ECOLOGICAL INFORMATION

- **Aquatic Acute Toxicity:** 96h LC50 (Crustacea, American lobster) = 0.72 mg/L (Category 2).
 - **Aquatic Chronic Toxicity:** Not classified based on rapid degradability and low bioaccumulation potential (LogKow = 1.6).
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13. DISPOSAL CONSIDERATIONS

- **Residual Waste:** Dispose of via incineration in a facility equipped with a scrubber. Wastewater containing the product must be treated (e.g., activated sludge) before discharge. Disposal must comply with local regulations.
 - **Contaminated Packaging:** Wash with a large amount of water and dispose of according to the container type.
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14. TRANSPORT INFORMATION

- **UN Classification:** Not applicable
 - **UN Number:** Not applicable
 - **Precautions:** Ensure no damage, corrosion, or leakage before transport. Secure cargo to prevent collapse.
 - **Specific Regulations:** Harmful Substance (Ship Safety Law), Other Harmful Substance (Aviation Law).
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15. REGULATORY INFORMATION (JAPAN)

- **Pollutant Release and Transfer Register (PRTR) Law:** Class 1 Designated Chemical Substance (No. 275).
 - **Industrial Safety and Health Act (ISHA):**
 - Dangerous and Harmful Substances requiring Labeling (Article 57).
 - Dangerous and Harmful Substances requiring SDS Notification (Article 57-2).
 - Appended Table 2, Item 1324.
 - **Chemical Substances Control Law (CSCL):** Priority Assessment Chemical Substance.
 - **Poisonous and Deleterious Substances Control Act:** Not applicable.
 - **Fire Service Act:** Not applicable.
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16. OTHER INFORMATION

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