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SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name : EzRunT
Product Code : AE-1415
SDS No. : A0004-1

General Use : Research use only

MANUFACTURER

Company Name : ATTO Corporation

Address : 2-2, Motoasakusa 3 cho-me, Taito-ku, Tokyo 111-0041, Japan

Telephone No. : +81-3-5827-4861 EMERGENCY TELEPHONE NUMBER

: +81-3-5827-4863

2. HAZARDS IDENTIFICATION

GHS classification

Classification of the substance or mixture

Acute toxicity - OralCategory 4Acute toxicity - DermalCategory 3

Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 2

Specific target organ toxicity (single exposure) Category 3

Category 3 (Respiratory irritation, Central nervous system)

Specific target organ toxicity (repeated exposure) Category 2

Category 2 (Kidneys, Liver)

aquatic environment (acute hazard) Category 1

Pictograms



Signal word Danger



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Hazard statements

• H302: Harmful if swallowed

• H311: Toxic in contact with skin

• H315: Causes skin irritation

• H318: Causes serious eye damage

• H335: May cause respiratory irritation

• H400: Very toxic to aquatic life

• H373: May cause damage to organs (Kidneys) through prolonged or repeated exposure

Precautionary statements-(Prevention)

- P264: Wash exposed skin thoroughly after handling.
- P270: Do not eat, drink or smoke when using this product.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.
- P271: Use only outdoors or in a well-ventilated area.
- P260: Do not breathe dust/fume/gas/mist/vapours/spray.
- P273: Avoid release to the environment.

Precautionary statements-(Response)

- P312: Call a POISON CENTER or doctor/physician if you feel unwell.
- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337+P313: If eye irritation persists: Get medical advice/attention.
- P302+P352: IF ON SKIN: Wash with plenty of water/....
- P314: Get medical advice/attention if you feel unwell.
- P361+P364: Take off immediately all contaminated clothing and wash it before reuse.
- P332+P313: If skin irritation occurs: Get medical advice/attention.
- P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P330: Rinse mouth.
- P391: Collect spillage.

Precautionary statements-(Storage)

• P405: Store locked up.



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• P403+P233: Store in a well-ventilated place. Keep container tightly closed.

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Precautionary statements-(Disposal)

P501: Dispose of contents/container to an approved waste disposal plant in accordance with local/regional/national/international regulations

Others

Other hazards Hazards not listed above are either not subject to classification or cannot be classified.

3. COMPOSITION/INFORMATION ON INGREDIENTS

mixture

Chemical Name	wt(%)	Chemical Fomula	CAS Registry No.
Sodium Dodecyl Sulfate	4.6%	C12H25NaO4S	151-21-3

4. FIRST AID MEASURES

- Inhalation: Remove to fresh air. Call a physician.
- **Skin contact:** Wash off immediately with soap and plenty of water. Call a physician.
- **Eye contact:** IF IN EYES: 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. Call a POISON CENTER or doctor/physician immediately. Do not induce vomiting unless directed to do so by medical personnel.
- **Protection of first-aiders:** Use personal protective equipment as required..

5. FIRE FIGHTING MEASURES

- Suitable extinguishing media: Water spray (fog), carbon dioxide (CO2), Foam, Extinguishing powder, Sand
- Unsuitable extinguishing media: No information available
- Special extinguishing method: No information available



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• Specific hazards arising from the chemical product: Thermal decomposition can lead to release of irritating and toxic gases and vapors.

• **Protection of fire-fighters:** Use personal protective equipment as required. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures: For indoor, provide adequate ventilation process until the end of working. Deny unnecessary entry other than the people involved by, for example, using a rope. While working, wear appropriate protective equipment to avoid adhering it on skin, or inhaling the gas. Work from windward, and retract the people downwind.
- Environmental precautions: To be careful not discharged to the environment without being properly handled waste water contaminated.
- Methods and materials for containment and methods and materials for cleaning up: Do not touch spilled material without suitable protection (See section 8). Sweep up spilled material and collect in a sealable empty container. Wash the spilled area with plenty of water.
- Recovery, neutralization: No information available
- Secondary disaster prevention measures: Clean contaminated objects and areas thoroughly observing environmental regulations. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse.

7. HANDLING AND STORAGE

Handling

- **Technical measures:** Avoid contact with strong oxidizing agents. Use with local exhaust ventilation.
- **Precautions:** Do not rough handle containers, such as upsetting, falling, giving a shock, and dragging. Prevent leakage, overflow, and scattering. Do not generate steam and dust unnecessarily. Seal the container after use. After handling, wash hands and face, and then



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gargle. In places other than those specified, smoking or eating and drinking should not be allowed. Contaminated protective equipment and gloves should not be brought to rest stops. Deny unnecessary entry of non-emergency personnel to the handling area.

• **Safety handling precautions:** Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Storage

- Safe storage conditions: Store away from sunlight in a well-ventilated place at room temperature (preferably cool). Keep container tightly closed.
- Safe packaging material: Polyethylene, Polypropylene
- Incompatible substances: Strong oxidizing agents

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Engineering controls: In case of indoor workplace, seal the source or use a local exhaust system. Provide the safety shower facility, and hand and eye-wash facility. And display their position clearly.
- Exposure limits: This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
- Personal protective equipment:
 - o Respiratory protection: Dust mask
 - Hand protection: Protection gloves
 - Eye protection: Protective eyeglasses or chemical safety goggles (goggle-type or full-face protective glasses if necessary)
 - Skin and body protection: Wear suitable protective clothing, protective boots.

9. PHYSICAL AND CHEMICAL PROPERTIES

• Physical state:

Form: PowderColor: White

o **Appearance:** Crystals crystalline powder

o **Odor:** Characteristic odor

• pH: No data available

• Melting point/freezing point: No data available



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- Boiling point, initial boiling point and boiling range: No data available
- Flash point: No data available
- Auto-ignition temperature: No data available
- **Decomposition temperature:** No data available
- Explosive properties: No data available
- Vapour pressure: No data available
- Vapour density: No data available
- Density/Relative density: No data available
- Solubility: No data available
- n-Octanol/water partition coefficient (log Pow): No data available
- Viscosity: No data available
- Other data: None

10. STABILITY AND REACTIVITY

- Stability: Stable under recommended storage conditions.
- Reactivity: No data available
- Hazardous reactions: None under normal processing.
- Conditions to avoid: Extremes of temperature and direct sunlight.
- Incompatible materials: Strong oxidizing agents.
- Hazardous decomposition products: Carbon monoxide (CO), carbon dioxide (CO2), Sulfur oxides (SOx).

11. TOXICOLOGICAL INFORMATION

- Acute toxicity:
 - o Chemical Name: Sodium Dodecyl Sulfate (CAS No. 151-21-3)
 - Oral LD50: 1,200 mg/kg (Rat) (SIDS(1991)), 2,730 mg/kg (EHC 169(1996))
 - Dermal LD50: Approx. 600 mg/kg (Rabbit) (SIDS(1991)), 580 mg/kg (Rabbit) (EHC 169(1996))
 - o **Inhalation LC50 (Gas):** Not applicable
 - o Inhalation LC50 (Vapor): No data available for classification
 - Inhalation LC50 (Dust, Mist): No data available for classification
- Skin corrosion/irritation:
 - o Chemical Name: Sodium Dodecyl Sulfate



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- Rabbit: "highly irritating" (ECETOC TR66(1995), IUCLID (2000)), although no description regarding reversibility.
- Serious eye damage/eye irritation:
 - o Chemical Name: Sodium Dodecyl Sulfate
 - Rabbit: "Modified Maximum Average Scores: 16.00; moderately irritating, 59.17; irritating, 60.50; irritating" (ECETOC TR48(1992), IUCLID (2000)).
- Respiratory or skin sensitization:
 - Respiratory sensitization: Cannot be classified (No data available)
 - o Skin sensitization: Not classified
- Germ cell mutagenicity: Not classified
- Carcinogenicity: Cannot be classified
- Reproductive toxicity: Cannot be classified
- Specific target organ toxicity (single exposure):
 - o Chemical Name: Sodium Dodecyl Sulfate
 - Respiratory tract irritation observed in aerosol exposure tests with mice, rabbits, and guinea pigs (IUCLID (2000)), and short-term exposure shows respiratory tract irritation (ICSC(1997)).
- Specific target organ toxicity (repeated exposure):
 - o Chemical Name: Sodium Dodecyl Sulfate
 - o In a 2-week mixed-feed administration study in rats, "increased liver weight was observed in pathological tissue examinations of rats, with slight swelling of hepatocytes and an increase in mitotic hepatocytes. These are considered to be an adaptation to the substance. In addition, vacuolar degeneration of renal tubular epithelial cells and atrophy of renal glomeruli were observed" (EHC 169(1996)).
- Aspiration hazard: No data available

12. ECOLOGICAL INFORMATION

- Ecotoxicity:
 - Aquatic environmental hazard (Acute): LC50 for Crustacea
 (American lobster) = 0.72 mg/L, 96 hours (SIDS, 1997).



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- Aquatic environmental hazard (Chronic): Not classified as readily degradable (SIDS, 1997) and not expected to bioaccumulate (LogKow = 1.6, PHYSPROP Database, 2008).
- Algae/aquatic plants: EC50: Pseudokirchneriella subcapitata
 3.59 15.6 mg/L 96h static
- o **Fish:** LC50: Oncorhynchus mykiss 4.62 mg/L 96 h
- Persistence and degradability: No information available
- Bioaccumulative potential: No information available
- Mobility in soil: No information available
- Hazard to the ozone layer: No information available

13. DISPOSAL CONSIDERATIONS

- Waste from residues: Incineration method. Spray and incinerate in a furnace equipped with a scrubber. Contaminated wastewater should be purified by activated sludge treatment before discharge. Disposal should be in accordance with applicable regional, national and local laws and regulations. If treatment by the above method is not possible, entrust disposal to a specialized waste disposal company approved by the prefectural governor.
- Contaminated container and contaminated packaging: After washing with plenty of water, dispose of containers according to the container type.

14. TRANSPORT INFORMATION

- UN Classification: Not applicable 1
- **UN Number:** Not applicable ¹
- Specific safety precautions and conditions for transport: Before transport, ensure that containers are not damaged, corroded, or leaking. Load without overturning, dropping, or damaging, and ensure cargo is secure against collapse. ¹
- MARINE POLLUTANT: NO 1

15. REGULATORY INFORMATION

US Regulations:

- **EPA:** CERCLA RQ = Not listed, EPCRA TPQ = Not listed
- **OSHA:** TQ = Not listed



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Japanese Regulations:

- Pollutant Release and Transfer Register Law: Class 1 Designated Chemical Substance No. 275 (Law Article 2, Paragraph 2, Enforcement Order Appended Table 1)
- Industrial Safety and Health Act: Regulation Appended Table 2, No. 1324
- Poisonous and Deleterious Substances Control Law: Not applicable
- Chemical Substance Control Law (Kashin-hou): Priority Assessment Chemical Substance (Law Article 2, Paragraph 5)
- Fire Service Act: Not applicable
- Water Pollution Control Law: Not applicable
- Regulations for the carriage and storage of dangerous goods in ship: Hazardous substance (Dangerous Goods Regulations, Article 3, Dangerous Goods Notification, Appended Table 1)
- Civil Aeronautics Law: Other hazardous substances (Enforcement Regulations, Article 194, Dangerous Goods Notification, Appended Table 1)
- Marine Pollution Prevention Law: Not applicable
- Explosives Control Act: Not applicable
- **High Pressure Gas Safety Act**: Not applicable

16. OTHER INFORMATIONS

This Safety Data Sheet (SDS) is prepared based on the latest available materials and data at the current time and may be revised with new knowledge. The precautions in this SDS are intended for normal handling. If the product user handles the product in a special way, please implement safety measures appropriate for the purpose and method of use. Furthermore, while ATTO Corporation has paid sufficient attention to the contents described in the SDS, we do not guarantee its accuracy.