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SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: EzApplyProduct Code: AE-1430

• SDS No.: A0001-1

• 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

• **FAX No.**: +81-3-5827-6647

• Department in charge: Headquarters, Customer Department

EMERGENCY TELEPHONE NUMBER

+81-3-5827-4863

2. HAZARDS IDENTIFICATION

GHS classification

- Skin corrosion/irritation: Category 3
- Serious eye damage/eye irritation: Category 2B
- Hazardous to the aquatic environment (acute hazard): Category 3

GHS Signal word : Warning

Hazard statements

- H316 Causes mild skin irritation
- H320 Causes eye irritation
- H402 Harmful to aquatic life



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Precautionary statements

• Prevention:

- P264 Wash hands and face thoroughly after handling
- P273 Avoid release to the environment

• Response:

 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

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- P332 + P313 If skin irritation occurs: Get medical advice/attention
- o P337 + P317 If eye irritation persists: Get medical attention

• Disposal:

 P501 Dispose of contents/container to a specialized waste disposal contractor approved by the prefectural governor

3. COMPOSITION/INFORMATION ON INGREDIENTS

• Distinction of single substance/mixture: Mixture

Chemical Name	wt(%)	Chemical Fomula	CAS No.
Sodium Dodecyl Sulfate	2.0% CH3(CH2)11OSO3Na		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 to an unconscious person by mouth. Immediately call a physician or poison control center. Do not induce vomiting unless instructed by a physician.
- **Protection of first-aiders**: Wear personal protective equipment.



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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
- Specific hazards arising from the chemical product: Thermal decomposition can lead to release of irritating and toxic gases and vapors.
- **Protection of fire-fighters**: Wear personal protective equipment. 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 use, ensure adequate ventilation until work is complete.
 - Prohibit unauthorized persons from entering the spill area, for example, by using ropes.
 - Wear appropriate protective equipment during work to prevent adherence to skin or inhalation of gas.
 - o Work from upwind and evacuate people downwind.

• Environmental precautions:

- Be careful not to discharge spilled product into rivers or other environments to prevent environmental impact.
- Ensure contaminated wastewater is not discharged into the environment without proper treatment.
- Methods and materials for containment and methods and materials for cleaning up:
 - Collect scattered material and recover into a sealable empty container.
 - Wash the spilled area with plenty of water.
- Recovery, neutralization: No information available
- Secondary disaster prevention measures: Thoroughly clean contaminated objects and areas in accordance with environmental



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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.

o Precautions:

- Do not handle containers roughly, such as overturning, dropping, shocking, or dragging.
- Prevent leakage, overflow, and scattering, and do not unnecessarily generate dust or vapor.
- Seal the container after use.
- After handling, wash hands and face thoroughly, and gargle.
- Do not eat, drink, or smoke in areas other than specified.
- Do not bring contaminated protective equipment and gloves into rest areas.
- Prohibit unauthorized personnel from entering 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 direct sunlight in a well-ventilated, preferably cool place, with the container tightly closed.
- o Safe packaging material: Polyethylene, Polypropylene
- Incompatible substances: Strong oxidizing agents

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

• Engineering controls:

 For indoor workplaces, enclose the source or install local exhaust ventilation.



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- Provide safety showers, hand washing, and eye washing facilities near the handling area, and clearly display their locations.
- Exposure limits: No occupational exposure limit values have been set.
- Personal protective equipment:
 - o Respiratory protection: Dust mask
 - o Hand protection: Protective gloves
 - Eye protection: Safety glasses with side shields (goggle-type or full-face protective glasses as needed)
 - Skin and body protection: Wear suitable protective clothing, protective boots

9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state:
 - o **Appearance**: Liquid
 - o Color: Blue
 - o **Odor**: Characteristic odor
- pH: 8.8
- Specific temperature/temperature range at which physical state changes:
 - o **Boiling point**: No data
 - o Boiling range: No data
 - o Melting point: No data
- Flash point: No data
- Ignition point: No data
- Explosive properties: No data
- Vapor pressure: No data
- Vapor density: No data
- Density: No data
- Solubility:
 - Solubility in solvent: No data
- Octanol/water partition coefficient: No data
- Other data: None



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10. STABILITY AND REACTIVITY

• Stability: Stable under recommended storage conditions.

- **Reactivity**: No data available
- Possibility of hazardous reactions: None under normal processing
- Conditions to avoid: High temperatures and direct sunlight
- Incompatible materials: Strong oxidizing agents
- Hazardous decomposition products: Carbon monoxide (CO), Carbon dioxide (CO2), Sulfur oxides (SOx)

11. TOXICOLOGICAL INFORMATION

- Chemical Name: Sodium Dodecyl Sulfate (CAS number: 151-21-3)
- Acute toxicity (oral): LD50 value of 1,200 mg/kg (SIDS(1991)) and 2,730 mg/kg (EHC 169(1996)) in oral administration tests using rats.
- Acute toxicity (dermal): LD50 value of approximately 600 mg/kg (SIDS(1991)) and 580 mg/kg (EHC 169(1996)) in dermal administration tests using rabbits.
- Acute toxicity (inhalation: gas): Not subject to classification.
- Acute toxicity (inhalation: vapor): Cannot be classified as there is no data.
- Acute toxicity (inhalation: dust, mist): Cannot be classified as there is no data.
- Skin corrosion/irritation: In a skin irritation/corrosion test (OECD TG 404, GLP) using rabbits, PII: 6.0, 6.78 is described as "highly irritating" (ECETOC TR66(1995), IUCLID(2000)), but there is no description regarding reversibility.
- Serious eye damage/irritation: In an eye irritation/corrosion test (OECD TG 405, GLP) using rabbits, "Modified Maximum Average Scores: 16.00; moderately irritating, 59.17; irritating, 60.50; irritating" are described (ECETOC TR48(1992), IUCLID(2000)).
- Respiratory or skin sensitization:
 - Respiratory sensitization: Cannot be classified. No data available for classification.
 - o Skin sensitization: Not classified.
- Germ cell mutagenicity: Not classified.
- Carcinogenicity: Cannot be classified.



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• Reproductive toxicity: Cannot be classified.

- Specific target organ toxicity single exposure: Airway irritation is observed in aerosol exposure tests with mice, rabbits, and guinea pigs (IUCLID(2000)), and short-term exposure shows airway irritation (ICSC(1997)).
- Specific target organ toxicity repeated exposure: In a 2-week dietary administration study in rats, "increased liver weight was observed in rats, and histological examination showed slight swelling of hepatocytes and an increase in mitotic hepatocytes. These are considered to be an adaptation to the administration of this substance. In addition, vacuolar degeneration of renal tubular epithelial cells and atrophy of renal glomeruli were observed" (EHC 169(1996)).

12. ECOLOGICAL INFORMATION

- Hazardous to the aquatic environment (acute): 96-hour LC50 for crustaceans (American lobster) = 0.72 mg/L (SIDS, 1997).
- Hazardous to the aquatic environment (chronic): Predicted to be readily biodegradable (SIDS, 1997) and not bioaccumulative (LogKow = 1.6, PHYSPROP Database, 2008).

13. DISPOSAL CONSIDERATIONS

- Residual wastes: Incineration method. Spray and incinerate in the combustion chamber of an incinerator equipped with a scrubber. Wastewater containing this product should be purified by activated sludge treatment before discharge. Disposal should be in accordance with relevant laws and local government ordinances. If treatment by the above method is not possible, entrust disposal to a specialized waste disposal contractor approved by the prefectural governor.
- Contaminated container and packaging: After washing thoroughly with plenty of water, dispose of according to the type of container.

14. TRANSPORT INFORMATION

• IATA: Not Restricted.

MARINE POLLUTANT: NO



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- **DOT (Department of Transportation)**: Not a Hazardous Material for DOT shipping.
- **UN Classification**: Not applicable
- **UN Number**: Not applicable
- Specific safety measures and conditions for transport: Confirm that the container is not damaged, corroded, or leaking before transport. Load without overturning, dropping, or damaging, and ensure that the cargo is securely braced to prevent collapse.

15. REGULATORY INFORMATION

- US REGULATIONS:
 - EPA:
 - CERCLA RQ= Not listed
 - EPCRA TPQ= Not listed
 - o OSHA:
 - TQ= Not listed
- Japanese regulations:
 - o **Fire Service Act**: Not applicable
 - Poisonous and Deleterious Substances Control Law: Not applicable
 - Industrial Safety and Health Act: Regulation Appended Table 2, No. 1324
 - o Pollutant Release and Transfer Register Law: Class 1 No. 275
 - o **Export Trade Control Order**: Not applicable
 - Chemical Substance Control Law: Priority Assessment Chemical Substance (Law Article 2, Paragraph 5)
 - Water Pollution Control Law: Not applicable
 - o Civil Aeronautics Act: Not applicable
 - o **Explosives Control Act**: Not applicable
 - High Pressure Gas Safety Act: Not applicable



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16. OTHER INFORMATION

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