

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name : EzWestLumiOne
Product Code : WSE-7110
MSDS No. : A0039-1
General Use : Research use only

MANUFACTURER

C 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. COMPOSITION/ INFORMATION ON INGREDIENTS

Composition	Contents (%)	Formula	CAS No.
Luminol (5-amino-1,2,3,4-tetrahydrophthalazine-1,4-dione)	<1%	C8H7N3O2	521-31-3
Hydrogen peroxide	<0.1%	H2O2	7722-84-1
Enhancer	<1%	Mixture	-
Stabilizer	<5%	Mixture	-
Water	92.9%<	H2O2	-

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

: Irritating to eye and skin.
May be harmful if inhaled and ingested.

4. FIRST AID MEASURES

GENERAL ADVICE : Wash off immediately with soap and plenty of water. In the case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit. Use personal protective equipment.

INHALATION : Move victim to fresh air. If breathing is difficult, give oxygen. If irritation persists, consult a physician.

EYE : Remove any contact lenses at once. Flush eyes well with flooding amounts of running water for at least 15 minutes. Assure adequate flushing by separating the eyelids with

sterile fingers. If irritation persists, consult a physician.

SKIN : Remove contaminated clothing. Wash thoroughly with soap and water. If irritation persists, consult a physician.

INGESTION : Rinse mouth, give plenty of water to dilute the substance. Never give anything by mouth to an unconscious person. Consult a physician.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

: Not flammable

EXTINGUISHING MEDIA

: Carbon dioxide, dry chemical, foam water.

FIRE FIGHTING INSTRUCTIONS

: Self-contained breathing apparatus required.

Firefighters should wear the usual protective gear.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

: Remove ignition sources and ventilate the area. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid raising dust and avoid contact with skin and eyes.

ENVIRONMENTAL PRECAUTIONS

: Prevent spills from entering sewers, watercourses or low areas.

METHODS FOR CLEANING UP

: Do not touch spilled material without suitable protection (See section 8). After materials completely picked up, wash the spill site with soap and water and ventilate the area. Put all wastes in a plastic bag for disposal and seal it tightly. Remove clean, or dispose of contaminated clothing.

7. HANDLING AND STORAGE

HANDLIN : Protect against physical damage. Avoid breathing dust. Wash thoroughly after handling. Keep out of reach of children.

Avoid contact with skin, eyes and clothing.

STORAGE : Store at Room Temperature. Store away from oxidizers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING MEASURES

: Use exhaust ventilation to keep airborne concentrations below exposure limits.

Use only with adequate ventilation.

VENTILATION : Local Exhaust ; Necessary,
Mechanical (General); Recommended

PERSONAL PROTECTION;

Respiratory protection

: Use a NIOSH/MSHA or European Standard EN149 approved respirator if the vapor concentrations exceed regulatory guidelines.

Hand protection : Chemical resistant gloves

Eye protection : Safety glasses (Chemical goggles)

Skin protection : Protective clothing

CONTROL PARAMETER

OSHA Final Limits : None established

ACGIH TLV(s) : None established

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid (light-yellow, clear)

Odor : Odorless

pH : 9.0

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

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID

: Sunlight, heat, moisture

STABILITY : Stable for two years at cold storage

MATERIALS TO AVOID

: Oxidizers, alkalis, Strong Acids

HAZARDOUS REACTIONS / DECOMPOSITION PRODUCTS

: Carbon monoxide, Nitrogen oxide,

11. TOXICOLOGICAL INFORMATION

Acute Toxicity : Not available
Eye Irritation : Not available
Skin Irritation : Not available
Sensitization : Not available
Repeated Dose Toxicity
: Not available
Chronic Toxicity : Not available
Mutagenicity : Not available
Carcinogenicity : Not available
Reproductive and Developmental Toxicity
: Not available

12. ECOLOGICAL INFORMATION

ECOTOXICITY : Not available
MOBILITY : Not available
PERSISTANCE AND BIODEGRADABILITY

: Not available

BIOACCUMULATIVE POTENTIAL

: Not available

OTHER ADVERSE EFFECTS

: Not available

13. DISPOSAL CONSIDERATIONS

Comply with all federal, state and local regulation.

Do not dump this product into sewers, on the ground or into any body of water.

14. TRANSPORT INFORMATION

IATA : Not Restricted.

MARINE POLLUTANT : NO

DOT (Department of Transportation): Not a Hazardous Material for DOT shipping.

15. REGULATORY INFORMATION

US REGULATIONS ;

EPA : CERCLA RQ=Not listed

EPCRA TPQ=Not listed

OSHA: TQ = Not listed

16. OTHER INFORMATIONS

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