

Product Name : EzBlock Chemi

MSDS No.: A0024-1

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First issue :2011/08/16 Revised :2012/01/12

## MATERIAL SAFETY DATA SHEET

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name : EzBlock Chemi

Product Code : AE-1475 MSDS No. : A0024-1

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. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Wt%	Chemical formula	CAS Registry No.
2-amino-2-hydroxymethyl-1,3-propanediol	<2%	C4H11NO3	77-86-1
Sodium chloride	<5%	NaCl	7647-14-5
Polyvinylpyrrolidone	<5%	(C6H9NO)x	9003-39-8

## 3. <u>HAZARDS IDENTIFICATION</u>

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.



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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.



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## 7. HANDLING AND STORAGE

HANDLIN : Protect against physical damage. Avoid breathing dust.

Wash thoroughly after handling. Keep out of reach of children.

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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 (clear) Odor : Odorless

pH : 7.5

Boiling Point / Boiling Range

: Not available

Melting Point / Melting Range

: Not available

**Decomposition Temperature** 

: Not available

Flash Point : Not available



Solubility

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### Auto Ignition Temperature

: Not available

: Not flammable Flammability Explosive Properties : Not available Oxidizing Properties: Not available Vapor Pressure : Not available Relative Density : Not available

Partition Coefficient(n-octanol /water)

: Not available

: 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 : Not available Carcinogenicity

Reproductive and Developmental Toxicity

: Not available

## 12. ECOLOGICAL INFORMATION



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ECOTOXICITY : Not available MOBILITY : Not available

PERSISTANCE AND BIODEGRADABILITY

: Not available

BIOACCUMULATIVE POTENYIAL

: 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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