

## MATERIAL SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name : C-Pagel / E-Pagel / Pagel  
Product Code : AE-6000  
C-Pagel : C\*\*\*L CD\*\*\*L C\*\*\*S  
E-Pagel : E-\*\*\*L E-\*\*\*S  
Pagel : NPU-\*\*\*L NPG-\*\*\*L SPG-\*\*\*L  
MSDS No. : A0011-1  
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 No.
Polyacrylamide gel	20%>	(C <sub>3</sub> H <sub>5</sub> NO) <sub>n</sub>	9003-05-8

### 3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW : Irritating to eye and skin.

May be harmful if inhaled and ingested.

GHS CLASSIFICATION : Not classified hazardous according to Regulation (EC)No 1272/2008.

EU CLASSIFICATION: Not classified dangerous according to Directive 67/548/EEC.

### 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.

SKIN CONTACT : Remove contaminated clothes and shoes, rinse skin with plenty of water or shower. Use soap to help assure removal. If irritation persists, consult a physician.

EYE CONTACT : Remove any contact lenses at once. Flush eyes well with a large amount of running water for at least 15 minutes. Assure adequate flushing by separating the eyelids with sterile fingers. 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 & EXPLOSION HAZARDS : Toxic, irritating dust or smoke may be emitted.

### SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

:Firemen should wear normal protective equipment(full bunker gear)and positive-pressure self-contained breathing apparatus.

## 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 material is 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**

## PRECAUTION FOR SAFE HANDLING

- : Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Handle material with suitable protection.

## CONDITIONS FOR SAFE STORAGE

- : Store away from sunlight in a cool( 2-10 °C= 35.6-50 °F ) well-ventilated dry place. Keep container tightly closed. Do not freeze.

INCOMPATIBILITIES : Not available

**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

## INDIVIDUAL PROTECTION MEASURES ;

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(goggles)

Skin protection : Protective clothing

## CONTROL PARAMETER

OSHA Final Limits : None established

ACGIH TLV(s) : None established

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : Gel plate

Odor : Odorless

pH : Not available

Boiling Point / Boiling Range  
: Not availableMelting Point / Melting Range  
: Not availableDecomposition 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 six month at cold storage

### MATERIALS TO AVOID

: Oxidizers, alkalis, Strong Acids

### HAZARDOUS REACTIONS / DECOMPOSITION PRODUCTS

: Carbon monoxide, Nitrogen oxide,

## **11. TOXICOLOGICAL INFORMATION**

Acute Toxicity : LD50(oral,rat): >1gm/kg(RTECS)

LD50(oral,mouse): 12950mg/kg(RTECS)

TOXICITY DATA : May be harmful if inhaled and ingested.

SKIN CORROSION/IRRITATION : May cause skin irritation.

EYE DAMAGE/EYE IRRITATION : May cause eye irritation.

RESPIRATORY OR SKIN SENSITIZATION : Not available

GERM CELL MUTAGENICITY : Not available

TOXIC TO REPRODUCTION : Not available

STOST-SINGLE EXPOSURE : Not available

STOST-REPEATED EXPOSURE : Not available

ASPIRATION TOXICITY : Not available

CARCINOGENICITY : Not available

**ADDITIONAL INFORMATION ;**

NTP : Not listed  
IARC : Not listed  
OSHA : Not listed  
ACGIH : Not listed

**12. ECOLOGICAL INFORMATION**

ECOTOXICITY : Not available  
MOBILITY : Not available  
PERSISTANCE AND BIODEGRADABILITY  
: Not available  
BIOACCUMULATIVE POTENYIAL  
: Not available  
OTHER ADVERSE EFFECTS  
: Not available

**13. DISPOSAL CONSIDERATIONS**

Any disposal practice must be in compliance with country, local, state, and federal laws and regulations ( contact country, local or state environmental agency for specific rules ).

After contents are completely removed, dispose of its container in accordance with local/regional/national/international regulation.

**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  
EU REGULATIONS:  
Labelling according to EC Directives: Not required.

**16. OTHER INFORMATIONS**

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