

# MATERIAL SAFETY DATA SHEET

## *LEAD ACID BATTERY WET, FILLED WITH ACID*

(US, CN, EU Version for International Trade)

<b>SECTION 1: PRODUCT AND COMPANY IDENTIFICATION</b>
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**PRODUCT NAME:** Lead Acid Battery Wet, Filled With Acid  
**OTHER PRODUCT NAMES:** Electric Storage Battery, SLI or Industrial Battery, UN2794

**MANUFACTURER:** East Penn Manufacturing Company, Inc.  
**DIVISION:** Deka Road  
**ADDRESS:** Lyon Station, PA 19536 USA

**EMERGENCY TELEPHONE NUMBERS:** US: CHEMTREC 1-800-424-9300  
 CN: CHEMTREC 1-800-424-9300  
 Outside US: +1-202-483-7616

**NON-EMERGENCY HEALTH/SAFETY INFORMATION:** +1-610-682-6361

**CHEMICAL FAMILY:** This product is a wet lead acid storage battery. May also include gel/absorbed electrolyte type lead acid battery types.

**PRODUCT USE:** Industrial/Commercial electrical storage batteries.

This product is considered a Hazardous Substance, Preparation or Article that is regulated under US-OSHA; CAN-WHMIS; IOSH; ISO; UK-CHIP; or EU Directives (67/548/EEC-Dangerous Substance Labeling, 98/24/EC-Chemical Agents at Work, 99/45/EC-Preparation Labeling, 2001/58/EC-MSDS Content, and 1907/2006/EC-REACH), and an MSDS/SDS is required for this product considering that when used as recommended or intended, or under ordinary conditions, it may present a health and safety exposure or other hazard.

Additional Information

This product may not be compatible with all environments, such as those containing liquid solvents or extreme temperature or pressure. Please request information if considering use under extreme conditions or use beyond current product labeling.

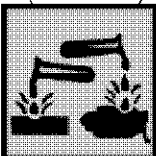
<b>SECTION 2: HAZARDS IDENTIFICATION</b>
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**GHS Classification:**

Health	Environmental	Physical
Acute Toxicity – Not listed (NL) Eye Corrosion – Corrosive* Skin Corrosion – Corrosive* Skin Sensitization – NL Mutagenicity/Carcinogenicity – NL Reproductive/Developmental – NL Target Organ Toxicity (Repeated) – NL	Aquatic Toxicity – NL	NFPA – Flammable gas, hydrogen (during charging) CN - NL EU - NL

\*as sulfuric acid

**GHS Label: Lead Acid Battery, Wet**

<b>Symbols:</b> C (Corrosive) 	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%; text-align: center;"><u>Hazard Statements</u></th> <th style="width: 50%; text-align: center;"><u>Precautionary Statements</u></th> </tr> <tr> <td style="vertical-align: top;">           Contact with internal components may cause irritation of severe burns. Irritating to eyes, respiratory system, and skin.         </td> <td style="vertical-align: top;">           Keep out of reach of children. Keep containers tightly closed. Avoid heat, sparks, and open flame while charging batteries. Avoid contact with internal acid.         </td> </tr> </table>	<u>Hazard Statements</u>	<u>Precautionary Statements</u>	Contact with internal components may cause irritation of severe burns. Irritating to eyes, respiratory system, and skin.	Keep out of reach of children. Keep containers tightly closed. Avoid heat, sparks, and open flame while charging batteries. Avoid contact with internal acid.
<u>Hazard Statements</u>	<u>Precautionary Statements</u>				
Contact with internal components may cause irritation of severe burns. Irritating to eyes, respiratory system, and skin.	Keep out of reach of children. Keep containers tightly closed. Avoid heat, sparks, and open flame while charging batteries. Avoid contact with internal acid.				

**EMERGENCY OVERVIEW:** May form explosive air/gas mixture during charging. Contact with internal components may cause irritation or severe burns. Irritating to eyes, respiratory system, and skin.

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Prolonged inhalation or ingestion may result in serious damage to health. Pregnant women exposed to internal components may experience reproductive/developmental effects.

### POTENTIAL HEALTH EFFECTS:

**EYES:** Direct contact of internal electrolyte liquid with eyes may cause severe burns or blindness.

**SKIN:** Direct contact of internal electrolyte liquid with the skin may cause skin irritation or damaging burns.

**INGESTION:** Swallowing this product may cause severe burns to the esophagus and digestive tract and harmful or fatal lead poisoning. Lead ingestion may cause nausea, vomiting, weight loss, abdominal spasms, fatigue, and pain in the arms, legs and joints.

**INHALATION:** Respiratory tract irritation and possible long term effects.

### ACUTE HEALTH HAZARDS:

Repeated or prolonged contact may cause mild skin irritation.

### CHRONIC HEALTH HAZARDS:

Lead poisoning if persons are exposed to internal components of the batteries. Lead absorption may cause nausea, vomiting, weight loss, abdominal spasms, fatigue, pain in the arms, legs and joints. Other effects may include central nervous system damage, kidney dysfunction, and potential reproductive effects. Chronic inhalation of sulfuric acid mist may increase the risk of lung cancer.

### MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

Respiratory and skin diseases may predispose one to acute and chronic effects of sulfuric acid and/or lead. Children and pregnant women must be protected from lead exposure. Persons with kidney disease may be at increased risk of kidney failure.

#### Additional Information

No health effects are expected related to normal use of this product as sold.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### INGREDIENTS (Chemical/Common Names):

Lead, inorganic

#### CAS No.:

7439-92-1

#### % by Wt:

43-70 (average: 65)

#### EC No.:

231-100-4

Sulfuric acid

7664-93-9

20-44 (average: 25)

231-639-5

Antimony

7440-36-0

0-4 (average: 1)

231-146-5

Arsenic

7440-38-2

<0.01

231-148-6

Polypropylene

9003-07-0

5-10 (average: 8)

NA

NA – Not applicable/ND – Not determined

#### Additional Information

These ingredients reflect components of the finished product related to performance of the product as distributed into commerce.

### SECTION 4: FIRST AID MEASURES

**EYE CONTACT:** Flush eyes with large amounts of water for at least 15 minutes. Seek immediate medical attention if eyes have been exposed directly to acid.

**SKIN CONTACT:** Flush affected area(s) with large amounts of water using deluge emergency shower, if available, shower for at least 15 minutes. Remove contaminated clothing. If symptoms persist, seek medical attention.

**INGESTION:** If swallowed, give large amounts of water. Do NOT induce vomiting or aspiration into the lungs may occur and can cause permanent injury or death.

**INHALATION:** If breathing difficulties develop, remove person to fresh air. If symptoms persist, seek medical attention.

### SECTION 5: FIRE-FIGHTING MEASURES

#### SUITABLE/UNSUITABLE EXTINGUISHING MEDIA:

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Dry chemical, carbon dioxide, water, foam. Do not use water on live electrical circuits.

### **SPECIAL FIRE FIGHTING PROCEDURES & PROTECTIVE EQUIPMENT:**

Use appropriate media for surrounding fire. Do not use carbon dioxide directly on cells. Avoid breathing vapors. Use full protective equipment (bunker gear) and self-contained breathing apparatus.

### **UNUSUAL FIRE AND EXPLOSION HAZARDS:**

Batteries evolve flammable hydrogen gas during charging and may increase fire risk in poorly ventilated areas near sparks, excessive heat or open flames.

### **SPECIFIC HAZARDS IN CASE OF FIRE:**

Thermal shock may cause battery case to crack open. Containers may explode when heated.

### Additional Information

Firefighting water runoff and dilution water may be toxic and corrosive and may cause adverse environmental impacts.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### **PERSONAL PRECAUTIONS:**

Avoid Contact with Skin. Neutralize any spilled electrolyte with neutralizing agents, such as soda ash, sodium bicarbonate, or very dilute sodium hydroxide solutions.

### **ENVIRONMENTAL PRECATIONS:**

Prevent spilled material from entering sewers and waterways.

### **SPILL CONTAINMENT & CLEANUP METHODS/MATERIALS:**

Add neutralizer/absorbent to spill area. Sweep or shovel spilled material and absorbent and place in approved container. Dispose of any non-recyclable materials in accordance with local, state, provincial or federal regulations.

### Additional Information

**Lead acid batteries and their plastic cases are recyclable.** Contact your East Penn representative for recycling information.

## **SECTION 7: HANDLING AND STORAGE**

### **PRECAUTIONS FOR SAFE HANDLING AND STORAGE:**

- Keep containers tightly closed when not in use.
- If battery case is broken, avoid contact with internal components.
- Do not handle near heat, sparks, or open flames.
- Protect containers from physical damage to avoid leaks and spills.
- Place cardboard between layers of stacked batteries to avoid damage and short circuits.
- Do not allow conductive material to touch the battery terminals. A dangerous short-circuit may occur and cause battery failure and fire.

### **OTHER PRECAUTIONS (e.g.; Incompatibilities):**

Keep away from combustible materials, organic chemicals, reducing substances, metals, strong oxidizers and water.

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **ENGINEERING CONTROLS/SYSTEM DESIGN INFORMATION:**

Charge in areas with adequate ventilation.

### **VENTILATION:**

General dilution ventilation is acceptable.

### **RESPIRATORY PROTECTION:**

Not required for normal conditions of use. See also special firefighting procedures (Section 5).

### **EYE PROTECTION:**

Wear protective glasses with side shields or goggles.

### **SKIN PROTECTION:**

Wear chemical resistant gloves as a standard procedure to prevent skin contact.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Chemically-impervious apron and face shield recommended when adding water or electrolyte to batteries.

**Wash Hands after handling.**

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### EXPOSURE GUIDELINES & LIMITS:

OSHA	Permissible Exposure Limit (PEL/TWA)	Lead, inorganic (as Pb)	0.05 mg/m <sup>3</sup>
		Sulfuric acid	1 mg/m <sup>3</sup>
ACGIH	2007 Threshold Limit Value (TLV)	Antimony	0.5 mg/m <sup>3</sup>
		Arsenic	0.01 mg/m <sup>3</sup>
		Lead, inorganic (as Pb)	0.05 mg/m <sup>3</sup>
		Sulfuric acid	0.2 mg/m <sup>3</sup>
Quebec	Permissible Exposure Value (PEV)	Antimony	0.5 mg/m <sup>3</sup>
		Arsenic	0.01 mg/m <sup>3</sup>
		Lead, inorganic (as Pb)	0.15 mg/m <sup>3</sup>
		Sulfuric acid	1 mg/m <sup>3</sup> TWA 3 mg/m <sup>3</sup> STEV
Ontario	Occupational Exposure Level (OEL)	Antimony	0.5 mg/m <sup>3</sup>
		Arsenic	0.1 mg/m <sup>3</sup>
		Lead (designated substance)	0.10 mg/m <sup>3</sup>
		Sulfuric acid	1 mg/m <sup>3</sup> TWAEV 3 mg/m <sup>3</sup> STEV
Netherlands	Maximaal Aanvaarde Concentratie (MAC)	Antimony	0.5 mg/m <sup>3</sup>
		Arsenic (designated substance)	0.01 mg/m <sup>3</sup>
Germany	Maximale Arbeitsplatzkonzentrationen (MAK)	Lead, inorganic (as Pb)	0.15 mg/m <sup>3</sup>
		Sulfuric acid	1 mg/m <sup>3</sup>
United Kingdom	Occupational Exposure Standard (OES)	Lead, inorganic (as Pb)	0.1 mg/m <sup>3</sup>
		Sulfuric acid	1 mg/m <sup>3</sup> TWA 2 mg/m <sup>3</sup> STEL
		Antimony	0.5 mg/m <sup>3</sup>
		Arsenic	0.1 mg/m <sup>3</sup>

TWA – 8-Hour Time Weighted Average/ STE – Short Term Exposure / mg/m<sup>3</sup> – milligrams per cubic meter of air/ NE – Not Established

#### Additional Information

- Batteries are housed in polypropylene cases which are regulated as total dust or respirable dust only when they are ground up during recycling. The OSHA PEL for dust is 15 mg/m<sup>3</sup> as total dust or 5 mg/m<sup>3</sup> as respirable dust.
- May be required to meet Domestic Requirements for a Specific Destination(s).

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE:</b>	Industrial/commercial lead acid battery
<b>ODOR:</b>	Odorless
<b>ODOR THRESHOLD:</b>	NA
<b>PHYSICAL STATE:</b>	Sulfuric Acid: Liquid; Lead: solid
<b>pH:</b>	<1
<b>BOILING POINT:</b>	235-240° F (as sulfuric acid)
<b>MELTING POINT:</b>	NA
<b>FREEZING POINT:</b>	NA
<b>VAPOR PRESSURE:</b>	10 mmHg
<b>VAPOR DENSITY (AIR = 1):</b>	> 1
<b>SPECIFIC GRAVITY (H<sub>2</sub>O = 1):</b>	1.27–1.33
<b>EVAPORATION RATE (n-BuAc=1):</b>	< 1
<b>SOLUBILITY IN WATER:</b>	100% (as sulfuric acid)
<b>FLASH POINT:</b>	Below room temperature (as hydrogen gas)
<b>AUTO-IGNITION TEMPERATURE:</b>	NA
<b>LOWER EXPLOSIVE LIMIT (LEL):</b>	4% (as hydrogen gas)
<b>UPPER EXPLOSIVE LIMIT (UEL):</b>	74% (as hydrogen gas)
<b>PARTITION COEFFICIENT:</b>	NA
<b>VISCOSITY (poise @ 25° C):</b>	Not Available

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**DECOMPOSITION TEMPERATURE:** Not Available

**FLAMMABILITY/HMIS HAZARD CLASSIFICATIONS (US/CN/EU):** As sulfuric acid

HEALTH: 3                      FLAMMABILITY: 0                      REACTIVITY: 2

### SECTION 10: STABILITY AND REACTIVITY

**STABILITY:** This product is stable under normal conditions at ambient temperature.

**INCOMPATIBILITY (MATERIAL TO AVOID):** Strong bases, combustible organic materials, reducing agents, finely divided metals, strong oxidizers, and water.

**HAZARDOUS DECOMPOSITION BY-PRODUCTS:** Thermal decomposition will produce sulfur dioxide, sulfur trioxide, carbon monoxide, sulfuric acid mist, and hydrogen.

**HAZARDOUS POLYMERIZATION:** Will not occur

**CONDITIONS TO AVOID:** Overcharging, sources of ignition

### SECTION 11: TOXICOLOGICAL INFORMATION

#### ACUTE TOXICITY (Test Results Basis and Comments):

Sulfuric acid: LD<sub>50</sub>, Rat: 21409 mg/kg  
LC<sub>50</sub>, Guinea pig: 510 mg/m<sup>3</sup>

Lead: No data available for elemental lead

#### SUBCHRONIC/CHRONIC TOXICITY (Test Results and Comments):

Repeated exposure to lead and lead compounds in the workplace may result in nervous system toxicity. Some toxicologists report that abnormal conduction velocities in person with blood lead levels of 50 µg/100 ml or higher. Heavy lead exposure may result in central nervous system damage, encephalopathy and damage to the blood-forming (hematopoietic) tissues.

#### Additional Information

- Very little chronic toxicity data available for elemental lead.
- Lead is listed by IARC as a 2B carcinogen: possible carcinogen in humans. Arsenic is listed by IARC, ACGIH, and NTP as a carcinogen, based on studies with high doses overlong periods of time. The other ingredients in this product, present at equal to or greater than 0.1% of the product, are not listed by OSHA, NTP, or IARC as suspect carcinogens.
- The 19<sup>th</sup> Amendment to EC Directive 67/548/EEC classified lead compounds, but not lead in metal form, as possibly toxic to reproduction. Risk phrase 61: May cause harm to the unborn child, applies to lead compounds, especially soluble forms.

### SECTION 12: ECOLOGICAL INFORMATION

#### PERSISTENCE & DEGRADABILITY:

Lead is very persistent in soils and sediments. No data available on biodegradation.

#### BIO-ACCUMULATIVE POTENTIAL (Including Mobility):

Mobility of metallic lead between ecological compartments is low. Bioaccumulation of lead occurs in aquatic and terrestrial animals and plants, but very little bioaccumulation occurs through the food chain. Most studies have included lead compounds, not solid inorganic lead.

#### AQUATIC TOXICITY (Test Results & Comments):

Sulfuric acid: 24-hour LC<sub>50</sub>, fresh water fish (*Brachydanio rerio*): 82 mg/l  
96-hour LOEC, fresh water fish (*Cyprinus carpio*): 22 mg/l (lowest observable effect concentration)

Lead (metal): No data available

#### Additional Information

- No known effects on stratospheric ozone depletion.
- Volatile organic compounds: 0% (by Volume)
- Water Endangering Class (WGK): NA

### SECTION 13: DISPOSAL CONSIDERATIONS

#### WASTE DISPOSAL METHOD:

Follow local, State/Provincial, and Federal/National regulations applicable to as-used, end-of-life characteristics to be determined by end-user.

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**HAZARDOUS WASTE**

**CLASS/CODE:**

US - Not applicable to finished product as manufactured for distribution into commerce.  
 CN – Not applicable to finished product as manufactured for distribution into commerce.  
 EWC – Not applicable to finished product as manufactured for distribution into commerce.

<u>Additional Information</u>
Not Included – <b>Recycle</b> or dispose as allowed by local jurisdiction for the end-of-life characteristics as-disposed.

**SECTION 14: TRANSPORT INFORMATION**

**GROUND – US-DOT/CAN-TDG/EU-ADR/APEC-ADR:**

Proper Shipping Name	Batteries, Wet, Filled with Acid	ID Number	UN2794
Hazard Class	8	Labels	Corrosive
Packing Group	III		

**AIRCRAFT – ICAO-IATA:**

Proper Shipping Name	Batteries, Wet, Filled with Acid	ID Number	UN2794
Hazard Class	8	Labels	Corrosive
Packing Group	II		

*Reference IATA packing instructions 800*

**VESSEL – IMO-IMDG:**

Proper Shipping Name	Batteries, Wet, Filled with Acid	ID Number	UN2794
Hazard Class	8	Labels	Corrosive
Packing Group	III		

*Reference IMDG packing instructions P801*

Additional Information

Transport requires proper packaging and paperwork, including the Nature and Quantity of goods, per applicable origin/destination/customs points as-shipped.

**SECTION 15: REGULATORY INFORMATION**

**INVENTORY STATUS:**

All components are listed on the TSCA; EINECS/ELINCS; and DSL, unless noted otherwise below.

**U.S. FEDERAL REGULATIONS:**

**TSCA Section 8b – Inventory Status:** All chemicals comprising this product are either exempt or listed on the TSCA Inventory.

**TSCA Section 12b – Export Notification:** If the finished product contains chemicals subject to TSCA Section 12b export notification, they are listed below:

<u>Chemical</u>	<u>CAS #</u>
None	NA

**CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT)**

Chemicals present in the product which could require reporting under the statute:

<u>Chemical</u>	<u>CAS #</u>
Lead	7439-92-1
Sulfuric acid	7664-93-9

**SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)**

The finished product contains chemicals subject to the reporting requirements of Section 313 of SARA Title III.

<u>Chemical</u>	<u>CAS #</u>	<u>% wt</u>
Lead	7439-92-1	65
Sulfuric acid	7664-93-9	25

**CERCLA SECTION 311/312 HAZARD CATEGORIES:** Note that the finished product is exempt from these regulations, but lead and sulfuric acid above the thresholds are reportable on Tier II reports.

Fire Hazard	No
Pressure Hazard	No
Reactivity Hazard	No
Immediate Hazard	Yes (Sulfuric acid is Corrosive)

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Delayed Hazard                      No

Note: Sulfuric acid is listed as an Extremely Hazardous Substance.

**STATE REGULATIONS (US):**

**California Proposition 65**

The following chemicals identified to exist in the finished product as distributed into commerce are known to the State of California to cause cancer, birth defects, or other reproductive harm:

<u>Chemical</u>	<u>CAS #</u>	<u>% Wt</u>
Arsenic (as arsenic oxides)	7440-38-2	<0.1
Strong inorganic acid mists including sulfuric acid	NA	25
Lead	7439-92-1	65

**California Consumer Product Volatile Organic Compound Emissions**

This Product is not regulated as a Consumer Product for purposes of CARB/OTC VOC Regulations, as-sold for the intended purpose and into the industrial/Commercial supply chain.

**INTERNATIONAL REGULATIONS (Non-US):**

**Canadian Domestic Substance List (DSL)**

All ingredients remaining in the finished product as distributed into commerce are included on the Domestic Substances List.

**WHMIS Classifications**

Class E: Corrosive materials present at greater than 1%

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the Controlled Products Regulations.

**NPRI and Ontario Regulation 127/01**

This product contains the following chemicals subject to the reporting requirements of Canada NPRI +/-or Ont. Reg. 127/01:

<u>Chemical</u>	<u>CAS #</u>	<u>% Wt</u>
Lead	7439-92-1	65
Sulfuric acid	7664-93-9	25

**European Inventory of Existing Commercial Chemical Substances (EINECS)**

All ingredients remaining in the finished product as distributed into commerce are exempt from, or included on, the European Inventory of Existing Commercial Chemical Substances.

**European Communities (EC) Hazard Classification according to directives 67/548/EEC and 1999/45/EC.**

<u>R-Phrases</u>	<u>S-Phrases</u>
35, 36, 38	1/2, 26, 30, 45

**Additional Information**

This product may be subject to Restriction of Hazardous Substances (RoHS) regulations in Europe and China, or may be regulated under additional regulations and laws not identified above, such as for uses other than described or as-designed/as-intended by the manufacturer, or for distribution into specific domestic destinations.

**SECTION 16: OTHER INFORMATION**

**OTHER INFORMATION:**

Distribution into Quebec to follow Canadian Controlled Product Regulations (CPR) 24(1) and 24(2).

Distribution into the EU to follow applicable Directives to the Use, Import/Export of the product as-sold.

**SOURCES OF INFORMATION:**

International Agency for Research on Cancer (1987), *IARC Monographs on the Evaluation of Carcinogenic Risks to Humans: Overall Evaluations of Carcinogenicity: An updating of IARC Monographs Volumes 1-42, Supplement 7, Lyon, France.*  
Ontario Ministry of Labour Regulation 654/86. Regulations Respecting Exposure to Chemical or Biological Agents.  
RTECS – Registry of Toxic Effects of Chemical Substances, National institute for Occupational Safety and Health.

**MSDS/SDS PREPARATION INFORMATION:**

DATE OF ISSUE:                      **6 August 2007**

SUPERCEDES: **29 January 2007**

**DISCLAIMER:**

This Material Safety Data Sheet is based upon information and sources available at the time of preparation or revision date. Information in the MSDS was obtained from sources which we believe are reliable, but are beyond our direct supervision or

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control. We make no Warranty of Merchantability, Fitness for any particular purpose or any other Warranty, Expressed or Implied, with respect to such information and we assume no liability resulting from its use. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. It is the obligation of each user of this product to determine the suitability of this product and comply with the requirements of all applicable laws regarding use and disposal of this product. For additional information concerning East Penn Manufacturing Co., Inc. products or questions concerning the content of this MSDS please contact your East Penn representative.

**END**