

**SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION**

Manufactured For and Distributed By: **Presstek, Inc**  
**55 Executive Drive**  
**Hudson, NH 03051**

**Product Name: MEGA LC STABILIZER**

**Chemical Family:** Blend

**Generic Name:** *Presstek Mega LC Stabilizer*

**Item Numbers:** *Product # 48756*

**DOT Hazard Classification:** Non-Hazardous Liquid

**DOT Shipping Name:** Aqueous Liquid

**Chemtrec Phone:** (800) 424-9300

**IMDG Hazard Classification:** Non Hazardous

**Information Phone:** (603) 595-7000

**IATA Hazard Classification:** Non Hazardous

**SECTION 2 - HAZARDOUS INGREDIENTS**

| Hazardous Components   | % (by Weight) | CAS #     | EINECS #  | Hazard Symbol | RISK PHRASES (Full Text Section 15) |
|------------------------|---------------|-----------|-----------|---------------|-------------------------------------|
| Triethanolamine<br>90% | 0.5-2.0       | 102-71-6  | 203-049-8 | Xi            | R36                                 |
| Sodium Bisulfite       | 0.1-1.0       | 7631-90-5 | 231-548-0 | Xn            | R22, R31                            |
| Phosphoric Acid<br>85% | 0.1-1.0       | 7664-38-2 | 231-633-2 | Xi            | R36/38                              |

**NOTES:** This Material Safety Data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200), the Canadian Workplace Hazardous Materials Information System (WHMIS), and European Union Directive 91/155/EEC. Hazard symbols and risk phrases are based on maximum listed concentration of each hazardous ingredient. Unlisted ingredients are not "hazardous" per the OSHA Hazard Communication Standard (29 CFR 1910.1200), the Canadian Workplace Hazardous Materials Information System (WHMIS) or the European (GHS) directive 91/155/EEC and are considered trade secrets under US Federal Law (29CFR and 40CFR), Canadian Law (Health Canada Legislation), and European Union Directive 67/548/EEC.

**SECTION 3 - HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW**

Mildly acidic, mildly irritant liquid.

**POTENTIAL HEALTH EFFECTS**

**INHALATION:**

Mildly irritant to respiratory system. Not expected to cause severe discomfort in normal use.

**SKIN:**

Mildly irritant to skin . Not expected to cause severe discomfort in normal use.

**EYES:**

Capable of causing eye irritation.

**INGESTION:**

Irritating to digestive tract. May cause gastric distress, stomach pains, and vomiting.

**CARCINOGENICITY:**

**NTP?** NO

**IARC MONOGRAPHS?** NO

**OSHA REGULATED?** NO

**CALIFORNIA, Prop.65?** NO

**ESIS NOTATION?** NO

### SECTION 4 - FIRST AID MEASURES

**INHALATION:**

Remove affected person to fresh air. Wash mouth and nasal passages with water repeatedly. If breathing difficulties persist, seek medical attention.

**EYES:**

Remove contact lenses. Immediately flush eyes for 15 minutes in clear running water while holding eyelids open. Seek medical attention immediately.

**SKIN:**

Wash contacted area with soap and water. DO NOT attempt to neutralize with chemical agents. If irritation persists, seek medical attention.

**INGESTION:**

Administer large quantities of water or milk to conscious person. DO NOT induce vomiting. Seek medical attention immediately.

### SECTION 5 - FIRE FIGHTING MEASURES

**GENERAL HAZARDS:**

Product is not combustible. Under fire conditions some gases and fumes may be harmful due to product degradation by heat.

**EXTINGUISHING MEDIA:**

Carbon Dioxide, water, water fog, dry chemical, chemical foam to fight surrounding fire.

**FIRE FIGHTING PROCEDURES:**

Keep containers cool with water spray to prevent container rupture due to steam buildup.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:**

None

**HAZARDOUS COMBUSTION PRODUCTS:**

Oxides of carbon, sulfur, nitrogen, phosphorous, hydrocarbons, fumes, and smoke may be produced.

### SECTION 6 - ACCIDENTAL RELEASE MEASURES

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**

Wash small spills to sanitary sewer. Large spills - confine spill, soak up with approved absorbent, shovel product into approved container for disposal. Notify the National Response Center (800) 424 - 8802; refer to CERCLA 40 CFR 302 for detailed instructions concerning reporting requirements.

### SECTION 7 - HANDLING AND STORAGE

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:**

Keep container closed when not in use. Protect containers from abuse and extreme temperatures. Separate from oxidizing materials, metallic powders and other easily oxidized organic materials and reducing agents. Keep this and other chemicals out of reach of children.

### SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

| HAZARDOUS COMPONENTS | NIOSH   |           |          |            | ACGIH       |           | OSHA     |            |
|----------------------|---------|-----------|----------|------------|-------------|-----------|----------|------------|
|                      | TWA ppm | TWA mg/m3 | STEL ppm | STEL mg/m3 | TLV/TWA ppm | TWA mg/m3 | STEL ppm | STEL mg/m3 |
| Triethanolamine 90%  | —       | NE        | —        | —          | —           | 5         | NE       | NE         |
| Sodium Bisulfite     | —       | 5         | —        | —          | —           | 5         | NE       | NE         |
| Phosphoric Acid 85%  | —       | 1         | —        | 1000 IDLH  | —           | 1         | —        | 1          |

## SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

### PERSONAL PROTECTION

#### RESPIRATORY PROTECTION:

None required while threshold limits (Section 2) are kept below maximum allowable concentrations. If TWA exceeds limits, NIOSH approved respirator must be worn. Refer to 29 CFR 1910.134 or European Standard EN 149 for complete regulations.

#### PROTECTIVE GLOVES:

Neoprene or rubber gloves .

#### EYE PROTECTION:

Protective eyeglasses or chemical safety goggles. Refer to 29 CFR 1910.133 or European Standard EN166.

#### OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

Coveralls, apron, or other equipment should be worn to minimize skin contact.

#### WORK / HYGIENIC PRACTICES:

Practice safe workplace habits. Minimize body contact with this, as well as all chemicals in general.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

#### APPEARANCE AND ODOR

Liquid product

#### pH

5.7 at 25°C

#### BOILING POINT / BOILING RANGE

NR

#### FLASH POINT

Non-Flammable

#### FLAMMABLE LIMITS

LEL: NA UEL: NA

#### AUTO-IGNITION TEMPERATURE

ND

#### VOLATILE ORGANIC COMPOUND (VOC) INFORMATION

There are no known Volatile Organic Compounds (VOCs) in this product.

#### VAPOR PRESSURE

NE

#### SPECIFIC GRAVITY (WATER = 1)

1.040 at 25°C

#### SOLUBILITY IN WATER

Complete

#### VISCOSITY

Not Specified

#### VAPOR DENSITY (AIR = 1)

NR

#### EVAPORATION RATE (WATER = 1)

NR

## SECTION 10 - STABILITY AND REACTIVITY

**STABILITY:** STABLE

**CONDITIONS TO AVOID:** Extreme temperatures.

**INCOMPATIBILITY (MATERIALS TO AVOID):** Strong oxidizers, strong acids, strong alkalis.

**HAZARDOUS DECOMPOSITION OR BYPRODUCTS:** Decomposition will not occur if handled and stored properly. In case of a fire, oxides of carbon, sulfur, phosphorous, hydrocarbons, fumes, and smoke may be produced.

**SECTION 11 - TOXICOLOGICAL INFORMATION**

| Hazardous Components | CAS #<br>EINECS # | LD50 of Ingredient<br>(Specify Species and Route) | LC50 of Ingredient<br>(Specify Species) |
|----------------------|-------------------|---|---|
| Triethanolamine 90%  | 102-71-6          | Oral, rabbit: LD50 = 2200 mg/kg                   | NE                                      |
|                      | 203-049-8         | Oral, rat: LD50 = 4920 uL/kg                      |   |
| Sodium Bisulfite     | 7631-90-5         | Oral, rat: LD50 = 2 gm/kg.                        | NE                                      |
|                      | 231-548-0         |   |   |
| Phosphoric Acid 85%  | 7664-38-2         | Oral, rat: LD50 = 1.25 gm/kg                      | Inhalation, mouse: LC50 = 25.5 mg/m3    |
|                      | <b>231-633-2</b>  | Oral, mouse: LD50 = 1.25 gm/kg                    |   |

**SECTION 12 - ECOLOGICAL INFORMATION**

No data are available on the adverse effects of this material on the environment. Neither COD nor BOD data are available. Based on the chemical composition of this product it is assumed that the mixture can be treated in an acclimatized biological waste treatment plant system in limited quantities. However, such treatment should be evaluated and approved for each specific biological system. None of the ingredients in this mixture are classified as a Marine Pollutant.

**SECTION 13 - DISPOSAL CONSIDERATIONS**

**WASTE DISPOSAL METHOD:**

According to the European Waste Catalogue, waste codes are application specific and should be assigned by the user based on the application for which the product is used. Dispose of in accordance with Local, State, and Federal Regulations. Refer to "40 CFR Protection of Environment Parts 260 - 299" for complete waste disposal regulations for organic materials. Consult your local, state, or Federal Environmental Protection Agency before disposing of any chemicals.

**SECTION 14 - TRANSPORT INFORMATION**

**PROPER SHIPPING NAME:** Not regulated

**DOT HAZARD CLASS / Pack Group:** None      **IATA HAZARD CLASS / Pack Group:** None

**REFERENCE:** 49 CFR 173.154, .203, .241      **IMDG HAZARD CLASS:** None

**UN / NA IDENTIFICATION NUMBER:** None      **RID/ADR Dangerous Goods Code:** NA

**LABEL:** None      **UN TDG Class / Pack Group:** NA

**HAZARD SYMBOLS:** None required.      **Hazard Identification Number (HIN):** NA

Note: Transportation information provided is for reference only. Client is urged to consult CFR 49 parts 100 - 177, IMDG, IATA, EU, United Nations TDG, and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

**SECTION 15 - REGULATORY INFORMATION**

**TSCA (USA - Toxic Substance Control Act):** All components of this product are listed.

**SARA TITLE III (USA - Superfund Amendments and Reauthorization Act):**

**Acute Health: NO Chronic Health: NO Reactive: NO Fire: NO Sudden Release of Pressure: NO**

**SARA 313 REPORTABLE INGREDIENTS:** None

**CERCLA (USA - Comprehensive Response Compensation and Liability Act):** CAS# 7631-90-5: 5000 lb final RQ; 2270 kg final RQ.

**California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986:** No

**SECTION 15 - REGULATORY INFORMATION Continued**

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

**IDL (Canadian Ingredient Disclosure List):** Listed.

**DSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List):** Ingredients are listed on the CDSL and NDSL lists.

**EINECS (European Inventory of Existing Commercial Chemical Substances):** Referenced.

**WGK Water Quality Index:** 1 (estimate)

**EU RISK PHRASES:**

R22: Harmful if swallowed

R31: Contact with acids liberates toxic gas.

R36/38: Irritating to eyes and skin.

**EU SAFETY PHRASES:**

S2: Keep out of the reach of children.

S24/25: Avoid contact with skin and eyes.

S28: After contact with skin, wash immediately with plenty of soap and water.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36: Wear eye and face protection.

S 46 If swallowed, seek medical advice immediately and show this container or label.



EU and GHS Symbols:

Irritant

**SECTION 16 - OTHER INFORMATION**

**Legend:** NA-Not Applicable, NE- Not Established, NR- Not reported, ND- Not Determined.

**ACGIH - American Congress of Government Industrial Hygienists, CAS - Chemical Abstracts Service**

**EINECS - European Inventory of Existing Commercial Chemical Substances**

**HMIS- Hazardous Materials Identification System, IARC - International Agency for Research on Cancer**

**NTP- National Toxicology Program, NIOSH - National Institute for Occupational Safety and Health**

**OSHA - Occupational Safety and Health Admin.**

|                                      |                                |          |
|--------------------------------------|--------------------------------|----------|
| <b>HMIS HAZARD RATINGS</b>           | HEALTH:                        | <b>1</b> |
| <i>0 = INSIGNIFICANT, 1 = SLIGHT</i> | FLAMMABILITY:                  | <b>0</b> |
| <i>2 = MODERATE, 3 = HIGH</i>        | PHYSICAL HAZARD:               | <b>0</b> |
| <i>4 = EXTREME</i>                   | PERSONAL PROTECTIVE EQUIPMENT: | <b>C</b> |

REVISION SUMMARY: Rewritten for OEM use 11/11/2009. Information Phone updated 1/26/2012 TB

**MSDS Prepared by:**

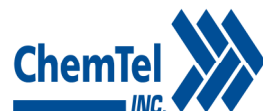
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The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.