

**Wagner Brake: MSDS - Elasto Multi Polymer (EMP)**

**ELASTO MULTI POLYMER (EMP)**

Contains Diethylene glycol

**CAUTION**

Fumes or mists may irritate the skin and eyes.

Ingestion or inhalation may have adverse effects.

Long-term exposure to diethylene glycol has adversely affected the liver and kidneys.

**First Aid:** If eye or skin contact occurs, flush with water for 15 minutes. For inhalation remove to fresh air and give oxygen or artificial respiration as indicated. Seek medical attention.

Use extinguishing media appropriate for surrounding fire.

For further information, see Material Safety Data Sheet for this material

**MATERIAL SAFETY DATA SHEET**

**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**COMMON NAME:** Elasto Multi Polymer (EMP)  
**CHEMICAL NAME:** NA - Mixture  
**FORMULA:** NA - Mixture  
**PRODUCT CAS NO.:** NA - Mixture  
**SUPPLIER:** Wagner Electric Corporation/Wagner Brake Subsidiary  
**ADDRESS:** 6565 Wells Avenue  
**CITY, STATE, ZIP:** St. Louis, MO 63133  
**PHONE:** (314)977-0300 Emergency Phone: CHEMTREC 1-800-424-9300

**2. INGREDIENTS: COMPOSITION/INFORMATION**

INGREDIENT	% WEIGHT	PEL-OSHA	TLV-ACGIH	LD 50/LC 50 ROUTE/SPECIES
Water CAS No.: 7732-18-5 RTECS: ZC110000	35-50	None Established	None Established	Not applicable
Polymer CAS No.: 9004-55-8 RTECS No.: No Data	20-25	None Established	None Established	No Data
Acrylic Polymer CAS No.: No Data RTECS No.: No Data	5-10	None Established	None Established	No Data
Diethylene glycol CAS No.: 111-46-6 RTECS No.: ID5950000	2-5	None Established	None Established	LD50: 12565 mg/kg oral/rat
Hydroxyethyl cellulose CAS No.: 9004-62-0 RTECS No.: FJ5958000	2-5	None Established	None Established	TDL0: 500 mg/kg ip/mouse

**3. HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW**

Non-flammable blue, viscous liquid which can cause eye, skin, and respiratory irritation. Inhalation of mists or fumes from this product may be toxic. Avoid eye and skin contact.

**POTENTIAL HEALTH EFFECTS**

**EYE:** Contact may cause irritation.

**SKIN:** Skin contact may cause mild irritation. Diethylene glycol may be slowly absorbed through the skin. Excessive exposure for extended periods of time involving large areas of skin would be necessary for the absorption of harmful amounts.

**INGESTION:** Relatively non-toxic. Ingestion of relatively large quantities would be required before toxic effects were noted. Kidney damage and hepatotoxicity are common following ingestion of diethylene glycol.

**INHALATION:** Inhalation of mists and fumes of diethylene glycol may cause respiratory irritation, adversely affect the liver and kidneys, and cause central nervous system (CNS) depression and/or stimulation.

**SIGNS AND SYMPTOMS:** Eye and skin contact may cause irritation and redness. Limited inhalation exposure information is available for diethylene glycol. Accidental ingestion has caused nausea, vomiting, headache, diarrhea, and lower back pain.

**CHRONIC EFFECTS:** Repeated inhalation, ingestion, or skin absorption of diethylene glycol over time may adversely affect the liver and kidneys.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** Pre-existing eye and skin conditions.

**TARGET ORGANS:** Liver, kidneys, skin, eyes

**CARCINOGENICITY:** NTP: No IARC: No OSHA: No

**MEDICAL SURVEILLANCE:** If symptoms develop or overexposure is suspected, lung and kidney function tests should be considered and nervous system examination.

**4. FIRST AID MEASURES**

**EYE CONTACT:** Flush eyes with water for 15 minutes. If irritation persists, seek medical attention.

**SKIN CONTACT:** Remove contaminated clothing and wash with soap and water. If irritation persists, seek medical attention.

**INHALATION:** If overcome by mists or fumes, remove victim to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, give artificial respiration. Seek medical attention.

**INGESTION:** If substantial quantities are ingested, seek medical attention.

**5. FIRE FIGHTING MEASURES**

**FLAMMABLE PROPERTIES**

FLASH POINT: > 200 °F

**NFPA HAZARD CLASSIFICATION:**

HEALTH: 1

FLAMMABILITY: 0

REACTIVITY: 0

**FLAMMABLE LIMITS:**

LEL: No Data

UEL: No Data

EXTINGUISHING MEDIA: Use dry chemical, carbon dioxide or foam. Water may be ineffective. Use media appropriate for surrounding fire.

FIRE AND EXPLOSION HAZARDS: Non-flammable. EMP is not likely to burn due to high water content.

FIRE FIGHTING EQUIPMENT: Firefighters should wear full turn-out gear and a full-facepiece NIOSH/MSHA-approved self-contained breathing apparatus operated in positive pressure mode.

**6. ACCIDENTAL RELEASE MEASURES**

Do not walk through spilled material. Dike or absorb spills with suitable sorbent material (i.e.: sand, vermiculite) and place into appropriate waste containers.

**7. HANDLING AND STORAGE**

Protect from freezing or excessive heat. Do not eat, drink, or smoke in areas where this product is being used. Wash thoroughly after handling. Avoid skin and eye contact.

**8. EXPOSURE CONTROLS PERSONAL PROTECTION**

RESPIRATORY PROTECTION: Although no PEL or TLV exists for this product or ingredients in this product, adverse health effects and experimental data indicate respiratory protection is warranted for diethylene glycol. The American Industrial Hygiene Association (AIHA) recommends a TWA of 50 ppm for diethylene glycol (10 mg/m<sup>3</sup> as aerosol). At or above this TWA, suitable NIOSH/MSHA-approved respiratory protection for organics should be worn.

SKIN PROTECTION: Appropriate gloves, apron, boots, etc. should be worn as necessary to prevent prolonged contact.

EYE PROTECTION: Safety glasses or goggles as necessary to prevent contact.

**PERSONAL SAMPLING PROCEDURE:**

Air sampling for glycols: XAD-7 tube + glass fiber filter (NIOSH 5523)

Air sampling for particulates: Preweighed polyvinyl chloride filter, 5.0 µm pore size (NIOSH 0500, total; NIOSH 0600, respirable) apply.

ENGINEERING CONTROLS: General exhaust ventilation. Local exhaust ventilation may be necessary in areas where heating or misting occurs.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>APPEARANCE:</b>	Blue viscous liquid
<b>ODOR:</b>	Mild
<b>BOILING POINT:</b>	212 °F
<b>VAPOR PRESSURE:</b>	No Data
<b>VAPOR DENSITY:</b>	Same as water
<b>SOLUBILITY IN WATER:</b>	Will disperse
<b>SPECIFIC GRAVITY:</b>	1.02 (H <sub>2</sub> O = 1)
<b>FREEZING POINT:</b>	No Data
<b>pH:</b>	No Data
<b>% VOLATILE</b>	No Data

**10. STABILITY AND REACTIVITY**

**STABILITY:** Stable under normal conditions. Avoid extreme heat and cold.

**INCOMPATIBILITY:** Diethylene glycol may react with sodium hydroxide at high temperatures and oxidizing materials (ie: dichromates, permanganates) when exposed to heat or flames.:

**HAZARDOUS DECOMPOSITION PRODUCTS:** Burning may generate carbon dioxide and carbon monoxide.

**HAZARDOUS POLYMERIZATION:** Will not occur.

**11. TOXICOLOGICAL INFORMATION**

**INGESTION:** It has been estimated that the single dose of diethylene glycol resulting in lethality in humans is approximately 1 ml/kg. for toxicity The LD50 for the product is greater than 5.0 g/kg.

**SKIN:** 500 mg Diethylene glycol applied to rabbit skin produced effects described as "mild" without further qualification.

**EYE:** 50 mg Diethylene glycol administered to rabbit eyes produced effects described as "mild" without further qualification.

**INHALATION:** Cyanosis, excitement, and general anesthetic behavior were exhibited in a diethylene glycol inhalation experiment (130 mg/m<sup>3</sup>/2H; mouse).

**CHRONIC:** Long-term exposure to diethylene glycol has resulted in tumors in laboratory animals (oral/rat).

**SUB-CHRONIC:** No information.

**12. ECOLOGICAL INFORMATION**

**ECOTOXICOLOGICAL INFORMATION:** No data available.

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## 13. DISPOSAL CONSIDERATIONS

Wastes should be disposed of according to all applicable federal, state, and local regulations. Dispose per 40 CFR Part 261 and 262.

## 14. TRANSPORT INFORMATION

TRANSPORTATION AND HAZARDOUS MATERIALS DESCRIPTION:

D.O.T.: Not classified.

## 15. REGULATORY INFORMATION

OSHA HAZARD COMMUNICATION RULE, 29 CFR 1910.1200:  
This product is not hazardous under criteria of this rule.

CERCLA/SUPERFUND, 40 CFR 117, 304:  
This product does not contain Reportable Quantity (RQ) Substances.

SARA HAZARD CATEGORY: This product has been reviewed according to the EPA Hazard Categories promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Immediate Health Hazard

SARA 313 INFORMATION: This product does not contain substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

EPCRA Section 302, Extremely Hazardous Substances, (EHS): None

CALIFORNIA PROPOSITION 65: This product does not contain ingredients known to the State of California to cause cancer or reproductive toxicity.

WHMIS: D2B.

## 16. OTHER INFORMATION

ACGIH	American Conference of Governmental Industrial Hygienists
CAS:	Chemical Abstracts Service
(C):	Ceiling Limit
DOT:	Department of Transportation
IARC:	International Agency for Research on Cancer
MSHA:	Mine Safety and Health Administration
NFPA:	National Fire Protection Association
NIOSH:	National Institute for Occupational Safety and Health
NTP:	National Toxicology Program
OSHA:	Occupational Safety and Health Administration
PEL:	Permissible Exposure Limit
PNOC:	Particulate Not Otherwise Classified
PNOR:	Particulate Not Otherwise Regulated
SARA:	Superfund Amendment and Reauthorization Act
TLV:	Threshold Limit Value
Revision Date: 2/23/98	Update to New Format: 12/1/94

**DISCLAIMER**

The information in this MATERIAL SAFETY DATA SHEET should be provided to all who will use, handle, store, transport, or otherwise be exposed to this material. This information has been prepared for the guidance of plant engineering, operations and management, and for persons working with or handling this material. Wagner Electric Corporation/Wagner Brake Subsidiary believes this information to be reliable and up-to-date as of the date of publication, but makes no warranty that it is.