

Section 1: Identification

Common Name/Trade Name	PEG 400 NF	
Supplier Information	Letco Medical, LLC 1316 Commerce Drive NW Decatur, AL 35601 1 (800) 239-5288 +1 (734) 843-4693	IN CASE OF EMERGENCY: Chemtrec 1 (800) 424-9300 (24 hours)
Product Synonym(s)	Polyethylene glycol 400; Polyglycol 400; PEG 400; PEG-8 (INCI –CTFA).	
Relevant Use(s) of Product	Manufacture or Compounding of Substances	

Section 2: Hazards Identification

Classification of Substance or Mixture	No classification is assigned according to NBR 14725-2.
Signal Word	None
Hazard Statement(s)	N/A
Pictogram(s)	N/A
Precautionary Statement(s)	N/A
Hazards Not Otherwise Classified	No data available
Ingredient(s) with Unknown Toxicity	No data available

Section 3: Composition/Information on Ingredients

Chemical Name	Polyethyleneglycol 400
Common Name	Polyethylene Glycol 400
CAS Number	25322-68-3
Impurities and/or Stabilizing Additives	There are no impurities which contribute to the classification of the substance.

Section 4: First Aid Measures

General Advice	Information for doctor There is not known any specific antidote. Direct the treatment in accordance with the symptoms and clinical conditions of the patient.
If Inhaled	Seek prompt medical attention.Remove victim to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration.
In Case of Skin Contact	Remove contaminated clothing and shoes. Wash affected areas with plenty of running water, preferably under a shower. Seek prompt medical attention.
In Case of Eye Contact	Immediately flush with plenty of running water for at least 15 minutes, keeping eyelids open. Remove contact lenses if easy to do. Seek prompt medical attention.
If Swallowed	Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.
Most Important Symptoms and Effects	Ingestion- Low toxicity. In large amounts may cause: Abdominal discomfort. Nausea. Diarrhea. Inhalation- Due to your low vapor pressure, is unlikely to cause inhalation problems at room temperature. Vapors from the liquid at high temperatures or mist of the product, in high concentrations, may cause irritation of the respiratory system. Skin- Prolonged contacts under wet clothes with the product can cause slight irritation and discomfort. It is unlikely that exposure to small amounts for short periods, may have any irritant or toxic effect. It can be absorbed through the skin. Eyes- May cause mild irritation.

Section 5: Fire Fighting Measures

Suitable Extinguishing Media	In case of fire, use: Alcohol resistant foam. Water spray. Carbon dioxide (CO2). Dry chemical powder.
Special Hazards Arising From the Substance/Mixture	Slight fire hazard. In case of combustion it may generate carbon monoxide, besides CO2.
Special PPE and/or Precautions for Firefighters	Water jets should not be used directly on igniting products because it may disperse the material and intensify the fire. Self-contained breathing apparatus and protective clothing are required. Cool the intact fire-exposed containers with water spray and remove them.

Section 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures	Isolate and signalize area. Keep heat and/or ignition sources away. Use personal protection equipment as indicated in Section 8, in order to avoid contact with spilled product.
Methods and Materials Used for Containment	Environmental Precautions Prevent product from entering into soil and waterways. Notify the competent authorities if the product has run into drainage systems or watercourse or has contaminated the ground or vegetation. Methods and materials for containment and cleaning up Stop if possible. Contain and dike spilled product with earth or sand. Eliminate ignition or heat sources. Transfer to proper container. Collect remnants with an appropriate absorbent material. Wash the contaminated surface with water, which should be collected for disposal.
Cleanup Procedures	Environmental Precautions Prevent product from entering into soil and waterways. Notify the competent authorities if the product has run into drainage systems or watercourse or has contaminated the ground or vegetation. Methods and materials for containment and cleaning up Stop if possible. Contain and dike spilled product with earth or sand. Eliminate ignition or heat sources. Transfer to proper container. Collect remnants with an appropriate absorbent material. Wash the contaminated surface with water, which should be collected for disposal.

Section 7: Handling and Storage

Precautions for Safe Handling	Use in a well-ventilated area. Avoid inhalation and contact with eyes, skin or clothing through proper protection. If occurs accidental contact, exposed area should be washed immediately. Emergency eyewashes and showers shall be located in accessible locations. Wash hands and face thoroughly after handling. Wash contaminated clothing before reuse.
Conditions for Safe Storage	Store in a covered and well-ventilated area, away from sunlight and sources of heat or open flames. Ensure that the storage location has adequate moisture, pressure and temperature. Keep containers tightly closed when not in use. This product is hygroscopic. Tanks should be kept in dry inert gas atmosphere. Incompatibilities Avoid contact with: Strong oxidizing agents. Strong acids and bases at high temperatures. Compounds with high affinity for hydroxyl groups. Packaging Material Recommended: Stainless steel. Polyethylene. Polypropylene. Coated carbon steel with: Vinyl ester resin. Unsuitable: Zinc. These metals alloys.

Section 8: Exposure Controls/Personal Protection

Components with Workplace Control Parameters	TLV-TWA (ACGIH) Not established. PEL-TWA (OSHA) Not established. TLV-STEL (ACGIH) Not established. LT(NR15) Not established. Odor Threshold Not available. IDLH Not available. Biological Exposure Indices (ACGIH) Not available.
Appropriate Engineering Controls	In closed environments, this product should be handled keeping proper exhaust (general diluter or local exhauster).
PPE - Eye/Face Protection	Side shields or wide vision safety goggles.
PPE - Skin Protection	PVC apron. It is recommended to adopt safety boots/shoes. Gloves made of: Rubber. PVC (Polyvinyl chloride).
PPE - Body Protection	PVC apron. It is recommended to adopt safety boots/shoes. Gloves made of: Rubber. PVC (Polyvinyl chloride).
PPE - Respiratory Protection	In case of emergency or contact with high concentrations of the product, wear an air supplied mask or self contained breathing apparatus. It is recommended to wear face mask with organic vapors cartridge in case of exposure to vapors/aerosols.

Section 9: Physical and Chemical Properties

Appearance	Liquid. Viscous. Colorless.
Upper/Lower Flammability or Explosive Limits	Not available.
Odor	Odorless.
Vapor Pressure	Not available.
Odor Threshold	No data available
Vapor Density	(air = 1) 14 (calculated).
pH	5,0 - 7,0 (sol. 5%/25 °C).
Relative Density	(water=1) 1130 kg/m3 (25 °C).
Melting Point/Freezing Point	4 - 6 °C.
Solubility	Completely soluble in water (20 °C).
Initial Boiling Point and Boiling Range	Not available.
Flash Point	> 200 °C (open cup).
Evaporation Rate	Not available.
Flammability (Solid, Gas)	1.
Partition Coefficient	Not available.
Auto-Ignition Temperature	260 °C.
Decomposition Temperature	Not available.
Viscosity	6,8 - 8,0 cSt (98/99°C).

Section 10: Stability and Reactivity

Reactivity	No hazardous reactivity is expected.
Chemical Stability	Stable under normal conditions of use and storage.
Possibility of Hazardous Reactions	Not polymerize.
Conditions to Avoid	High temperatures, ignition sources and prolonged exposure to the air.
Incompatible Materials	Avoid contact with: Strong oxidizing agents. Strong acids and bases at high temperatures. Compounds with high affinity for hydroxyl groups.
Hazardous Decomposition Products	In case of combustion it may generate carbon monoxide, besides CO ₂ .

Section 11: Toxicological Information

Acute Toxicity - LD50 Oral	LD50, guinea pig: 15700 mg/kg. LD50, rabbit: 26800 mg/kg. LD50 rat: 38100 mg/kg. LD50, mouse: 28915 mg/kg.
Acute Toxicity - Inhalation	Not available.
Acute Toxicity - Dermal	Not available.
Acute Toxicity - Eye	Not available.
Skin Corrosion/Irritation	LD50, rabbit: > 20 g/kg.
Serious Eye Damage/Irritation	Not available.
Respiratory or Skin Sensitization	Not available.
Germ Cell Mutagenicity	Not available.
Carcinogenicity IARC	There are no known serious chronic effects and/or references on carcinogenic, mutagenic or teratogenic product activity.
Carcinogenicity ACGIH	There are no known serious chronic effects and/or references on carcinogenic, mutagenic or teratogenic product activity.
Carcinogenicity NTP	There are no known serious chronic effects and/or references on carcinogenic, mutagenic or teratogenic product activity.
Carcinogenicity OSHA	There are no known serious chronic effects and/or references on carcinogenic, mutagenic or teratogenic product activity.
Reproductive Toxicity	Not available.
Specific Target Organ Toxicity - Single Exposure	Not available.
Specific Target Organ Toxicity - Repeated Exposure	Not available.
Aspiration Hazard	Not available.

Section 12: Ecological Information

Toxicity	LC50, 24h, Carassius auratus: > 5000 mg/L. LC50, 96h, Carassius auratus: > 20000 mg/L. LC50, 96h, Lepomis macrochirus: 1700 mg/L. EC50, bacteria: > 1000 mg/L.
Persistence and Degradability	Slowly biodegradable. BOD5: 1%.
Bio-accumulative Potential	It is not expected to bioaccumulate in the environment.
Mobility in Soil	The product is slightly volatile. Completely soluble in water.
Other Adverse Effects	Not available

Section 13: Disposal Considerations

Waste Treatment Methods Product	The preferred options for disposal include reuse, recycling, co-processing, finding a use for a byproduct, incineration or other thermal destruction process at licensed facilities. All procedures must follow specific operation standards in order to reduce health, safety and environmental risks. Perform co-processing, incineration or other thermal destruction process at facilities capable of minimizing or reducing air pollution emissions. The disposal must comply with federal, state, and local laws and regulations in accordance with the environmental agencies.
Waste Treatment Methods Packaging	Do not cut or pierce the packaging, nor do hot work near them. Do not remove labels until the product has been fully removed and the packaging cleaned. The preferred options for disposal include reuse, recycling or reclamation at licensed facilities. All procedures must follow specific operation standards in order to reduce health, safety and environmental risks. The disposal must comply with local legislation and in accordance with standards from local environmental agencies.
Special Precautions Landfill or Incinerations	No data available
Other Information	No data available

Section 14: Transport Information

UN Number	Not dangerous goods.
UN Proper Shipping Name	N/A
Transport Hazard Class(es)	N/A
Packaging Group	N/A
Environmental Hazards	N/A

Section 15: Regulatory Information

Applicable standards Resolution 420 / 2004 – Transport Ministry. IMDG Code - 2010 Edition - IMO (International Maritime Organization). Dangerous Goods Regulations - 52nd Edition - IATA (International Air Transport Association). Dangerous Goods by Road (ADR) – Available from January 1st, 2011 – Unece (United Nations Economic Commission for Europe). Brazilian Technical Standards Association (ABNT) – NBR 14725 - Part 1 to 4.

Section 16: Other Information

Additional Information	N/A
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