

Section 1: Identification

Common Name/Trade Name	PEG 1450 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)	Polyethylenoglycol 1450; Polyglycol 1450; PEG-1450; PEG-32 (INCI - CTFA).	
Relevant Use(s) of Product	Manufacture or Compounding of Substances	

Section 2: Hazards Identification

Classification of Substance or Mixture	Not classified in Annex I to Directive 67/548/EEC, nor in any other group.
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	Polyethylene Glycol 1450 USP/NF
Common Name	Polyethylene Glycol 1450
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	Seek prompt medical attention. Do not induce vomiting. Vomiting should only be induced by medical personnel. If vomiting occurs, keep the head lower than chest to avoid aspiration into the lungs. Never give anything by mouth to an unconscious or convulsing person.
Most Important Symptoms and Effects	Ingestion- Very low toxicity, but in great amounts can cause nausea, abdominal discomfort, vomiting and diarrhea. Inhalation- Due to its low vapor pressure, it is less probable to cause inhalation problems at room temperature. Vapors that originate from the liquid at elevated temperatures or obscurity of the product at high concentrations are irritating and can cause discomfort. Skin- Slightly irritating. It can be absorbed through the skin, but is less probable that, exposition in small amounts during short periods of time may cause any significant toxic effect. Eyes- It can cause slight irritation

Section 5: Fire Fighting Measures

Suitable Extinguishing Media	Use alcohol-resistant foam, nebulized water, CO2 or dry chemical powder.
Special Hazards Arising From the Substance/Mixture	In case of combustion, it may generate toxic fumes containing 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	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	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. 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.

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. The product can be stored in tanks, in liquid state, at temperatures slightly over 60 °C, where it must be maintained at inert gas atmosphere. Incompatibilities Avoid contact with strong oxidants and compounds that are very reactive to hydroxyl groups. Packaging Material Recommended: carbon steel covered with ester-vinilic resin, stainless steel, polyethylene and polypropylene. Inadequate: zinc (galvanized steel) and zinc alloys.

Section 8: Exposure Controls/Personal Protection	
Components with Workplace Control Parameters	Control parameters: TLV-TWA (ACGIH) Not established. PEL-TWA (OSHA) Not established. TLV-STEL (ACGIH) Not established. LT (NR15) Not available. 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 exhaust).
PPE - Eye/Face Protection	Side shields or wide vision safety goggles.
PPE - Skin Protection	PVC apron. It is recommended to adopt safety boots/shoes.
PPE - Body Protection	Gloves made of rubber or PVC. PVC apron. It is recommended to adopt safety boots/shoes.
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 filter for organic vapors in case of exposure to vapors/aerosols.

Section 9: Physical and Chemical Properties	
Appearance	White solid, hygroscopic.
Upper/Lower Flammability or Explosive Limits	Not available
Odor	Odorless
Vapor Pressure	Not available
Odor Threshold	Not available
Vapor Density	Not available
pH	5,0 - 7,0 (sol. 5%).
Relative Density	Not applicable. Solid product.
Melting Point/Freezing Point	Melting point/Freezing point ~33 °C.
Solubility	Solubility Partially soluble in water. (20 °C).
Initial Boiling Point and Boiling Range	Not available
Flash Point	> 250 °C (open cup).
Evaporation Rate	Not available
Flammability (Solid, Gas)	Not available
Partition Coefficient	Not available
Auto-Ignition Temperature	310 °C.
Decomposition Temperature	Not available
Viscosity	25,0 - 32,0 cSt (210°F).

Section 10: Stability and Reactivity

Reactivity	Not available
Chemical Stability	Stable under normal conditions of use and storage.
Possibility of Hazardous Reactions	Not available
Conditions to Avoid	High temperatures, ignition sources and prolonged exposure to the air.
Incompatible Materials	Avoid contact with strong oxidants, strong acids and bases at high temperatures and compounds very reactive with hydroxyl groups.
Hazardous Decomposition Products	In case of combustion, it may generate toxic fumes containing carbon monoxide, besides CO ₂ .

Section 11: Toxicological Information

Acute Toxicity - LD50 Oral	Very low toxicity. LD50, rat: 44.200 mg/kg; LD50, rabbit: 28900 mg/kg.
Acute Toxicity - Inhalation	Not available
Acute Toxicity - Dermal	Not available
Acute Toxicity - Eye	Not available
Skin Corrosion/Irritation	Slight irritation
Serious Eye Damage/Irritation	Slight irritation
Respiratory or Skin Sensitization	Not available
Germ Cell Mutagenicity	Not available
Carcinogenicity IARC	Severe chronic effects of the product are not known nor references on carcinogenic, mutagenic or teratogenic activity of the product.
Carcinogenicity ACGIH	Severe chronic effects of the product are not known nor references on carcinogenic, mutagenic or teratogenic activity of the product.
Carcinogenicity NTP	Severe chronic effects of the product are not known nor references on carcinogenic, mutagenic or teratogenic activity of the product.
Carcinogenicity OSHA	Severe chronic effects of the product are not known nor references on carcinogenic, mutagenic or teratogenic activity of the product.
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	The product is slightly volatile and totally water soluble. The aquatic toxicity is low - LC50, <i>Carassius auratus</i> (Goldfish) > 5 g/L/24h.
Persistence and Degradability	It is slowly biodegradable - DBO5: 1%. It does not accumulate in the environment.
Bio-accumulative Potential	Not available
Mobility in Soil	Not available
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 by product, 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. Dangerous Goods Regulations - 52nd Edition - IATA (International Air Transport Association). IMDG Code - 2010 Edition - IMO (International Maritime Organization). 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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