



ACME-HARDESTY  
A division of  
JACOB STERN & SONS, INC.  
- SINCE 1857 -

# PEG 400 NF (Poly Ethylene Glycol 400 NF)

## Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations  
Revision Date: 04/02/2015

Supersedes: 12/10/2014

Version: 2.0

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

### 1.1. Product Identifier

**Product Form:** Substance

**Product Name:** Poly Ethylene Glycol

**CAS No:** 25322-68-3

**Synonyms:** PEG 400; PEG 8

### 1.2. Intended Use of the Product

**Use of the substance/mixture:** Per FDA: Coatings on Fresh Citrus Fruit; Polyethylene Glycol (mean molecular weight 200–9,500) – GMP, GRAS; Boiler water additives; Defoaming agents; Adhesives; Resinous and polymeric coatings; Components of paper and paperboard in contact with dry food; Polyethylene Glycol (mean molecular weight 200–9,500) (ZERO – in milk – 172.820, 526.820); Diluents in color additive mixtures for food use exempt from certification.

### 1.3. Name, Address, and Telephone of the Responsible Party

#### Company

Acme-Hardesty Co  
450 Sentry Parkway  
Blue Bell, PA 19422  
T 866-226-3834 T 215-591-3610  
www.acme-hardesty.com

### 1.4. Emergency Telephone Number

**Emergency Number** : 800-424-9300

For Chemical Emergency, Spill, Leak, Fire, Exposure, or Accident, call CHEMTREC – Day or Night

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the Substance or Mixture

#### Classification (GHS-US)

STOT SE 3 H335

Full text of H-phrases: see section 16

### 2.2. Label Elements

#### GHS-US Labeling

#### Hazard Pictograms (GHS-US)



GHS07

#### Signal Word (GHS-US)

: Warning

#### Hazard Statements (GHS-US)

: H335 - May cause respiratory irritation

#### Precautionary Statements (GHS-US)

: P261 - Avoid breathing vapors, mist, or spray.

P271 - Use only outdoors or in a well-ventilated area.

P304+P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.

P312 - Call a poison center or doctor if you feel unwell.

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P405 - Store locked up.

P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

### 2.3. Other Hazards

No additional information available

### 2.4. Unknown Acute Toxicity (GHS-US)

No data available

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### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1. Substance

Name : Poly Ethylene Glycol

CAS No : 25322-68-3

Name	Product Identifier	%	Classification (GHS-US)
Polyethylene glycol	(CAS No) 25322-68-3	100	STOT SE 3, H335

#### 3.2. Mixture

Not applicable

Full text of H-phrases: see section 16

### SECTION 4: FIRST AID MEASURES

#### 4.1. Description of First Aid Measures

**First-aid Measures General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**First-aid Measures After Inhalation:** When symptoms occur: go into open air and ventilate suspected area.

**First-aid Measures After Skin Contact:** Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

**First-aid Measures After Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

**First-aid Measures After Ingestion:** Rinse mouth. Do NOT induce vomiting.

#### 4.2. Most Important Symptoms and Effects, Both Acute and Delayed

**Symptoms/Injuries:** Irritation of respiratory tract.

**Symptoms/Injuries After Inhalation:** May cause irritation to the respiratory tract, sneezing, coughing, burning sensation of throat with constricting sensation of the larynx and difficulty in breathing.

**Symptoms/Injuries After Skin Contact:** Contact during a long period may cause slight irritation.

**Symptoms/Injuries After Eye Contact:** May cause slight irritation to eyes.

**Symptoms/Injuries After Ingestion:** Ingestion may cause nausea, vomiting and diarrhea.

**Chronic Symptoms:** None known.

#### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If medical advice is needed, have product container or label at hand.

### SECTION 5: FIREFIGHTING MEASURES

#### 5.1. Extinguishing Media

**Suitable Extinguishing Media:** Use extinguishing media suitable for surrounding type of fire. Carbon dioxide (CO2). dry chemical powder. Sand.

**Unsuitable Extinguishing Media:** Do not use water.

#### 5.2. Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** Combustible.

**Explosion Hazard:** Product is not explosive.

**Reactivity:** No reactivity hazard.

#### 5.3. Advice for Firefighters

**Firefighting Instructions:** Exercise caution when fighting any chemical fire.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Avoid contact with the skin and the eyes.

##### 6.1.1. For Non-emergency Personnel

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

##### 6.1.2. For Emergency Responders

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Ventilate area.

#### 6.2. Environmental Precautions

Prevent entry to sewers and public waters.

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### 6.3. Methods and Material for Containment and Cleaning Up

**For Containment:** Absorb and/or contain spill with inert material.

**Methods for Cleaning Up:** Collect absorbed material and place into a sealed, labelled container for proper disposal. Clean up spills immediately and dispose of waste safely.

### 6.4. Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for Safe Handling

**Additional Hazards When Processed:** Keep away from heat, sparks, open flames, hot surfaces. – No smoking.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Do not eat, drink or smoke when using this product.

### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

**Storage Conditions:** Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Protect from heat and direct sunlight.

**Incompatible Products:** Strong oxidizers.

**Storage Temperature:** > 20 °C (for bulk quantities)

**Storage Area:** Temperature higher than necessary degrades quality at rates dependent on time and temperature of exposure.

**Special Rules on Packaging:** Stainless steel preferred for storage.

**7.3. Specific End Use(s)** Per FDA: Coatings on Fresh Citrus Fruit; Polyethylene Glycol (mean molecular weight 200–9,500) – GMP, GRAS; Boiler water additives; Defoaming agents; Adhesives; Resinous and polymeric coatings; Components of paper and paperboard in contact with dry food; Polyethylene Glycol (mean molecular weight 200–9,500) (ZERO – in milk – 172.820, 526.820); Diluents in color additive mixtures for food use exempt from certification.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), or OSHA (PEL).

### 8.2. Exposure Controls

**Appropriate Engineering Controls** : Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.

**Personal Protective Equipment** : Safety glasses. Gloves.



**Hand Protection** : Wear chemically resistant protective gloves.

**Eye Protection** : Chemical goggles or face shield.

**Skin and Body Protection** : Wear suitable protective clothing.

**Respiratory Protection** : If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.

**Other Information** : When using, do not eat, drink or smoke.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on Basic Physical and Chemical Properties

**Physical State** : Liquid

**Appearance** : Colorless

**Odor** : Characteristic

**Odor Threshold** : No data available

**pH** : 4.5 - 7.5

**Relative Evaporation Rate (butylacetate=1)** : No data available

**Melting Point** : 4 - 8 °C (39.2 - 46.4 °F)

**Freezing Point** : No data available

**Boiling Point** : > 250 °C (482.00 °F)

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Flash Point	: > 245 °C (473.00 °F)
Auto-ignition Temperature	: ≈ 380 °C (716.00 °F)
Decomposition Temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor Pressure	: No data available
Relative Vapor Density at 20 °C	: No data available
Relative Density	: No data available
Specific Gravity	: ≈ 1.13
Solubility	: Water: Soluble Organic solvent: Insoluble in aliphatic hydrocarbon
Partition Coefficient: N-Octanol/Water	: Not available
Viscosity	: 6.9 - 8 cSt @ 99°C
Explosive Properties	: No data available
Oxidizing Properties	: No data available
Explosive Limits	: Not applicable

9.2. Other Information No additional information available

## SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity: No reactivity hazard.

10.2 Chemical Stability: Stable under normal temperature and pressure.

10.3 Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

10.4 Conditions to Avoid: Direct sunlight. Extremely high or low temperatures. Keep away from heat, sparks, open flames, hot surfaces. – No smoking.

10.5 Incompatible Materials: Strong oxidizers.

10.6 Hazardous Decomposition Products: Carbon oxides (CO, CO<sub>2</sub>).

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information On Toxicological Effects

Acute Toxicity : Not classified

Poly Ethylene Glycol (25322-68-3)

Polyethylene glycol (25322-68-3)

LD50 Oral Rat	47000 mg/kg
LD50 Dermal Rabbit	> 20 ml/kg
ATE (Oral)	47000.000 mg/kg body weight

Skin Corrosion/Irritation: Not classified

pH: 4.5 - 7.5

Serious Eye Damage/Irritation: Not classified

pH: 4.5 - 7.5

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Carcinogenicity: Not classified

Poly Ethylene Glycol (25322-68-3)

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): May cause respiratory irritation.

Poly Ethylene Glycol (25322-68-3)

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: May cause irritation to the respiratory tract, sneezing, coughing, burning sensation of throat with constricting sensation of the larynx and difficulty in breathing.

Symptoms/Injuries After Skin Contact: Contact during a long period may cause slight irritation.

Symptoms/Injuries After Eye Contact: May cause slight irritation to eyes.

Symptoms/Injuries After Ingestion: Ingestion may cause nausea, vomiting and diarrhea.

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Chronic Symptoms: None known.

### SECTION 12: ECOLOGICAL INFORMATION

**12.1. Toxicity** No additional information available

**12.2. Persistence and Degradability**

**Poly Ethylene Glycol (25322-68-3)**

Persistence and Degradability	Not established.
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**12.3. Bioaccumulative Potential**

**Poly Ethylene Glycol (25322-68-3)**

Bioaccumulative Potential	Not established.
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**12.4. Mobility in Soil** No additional information available

**12.5. Other Adverse Effects**

**Other Information** : Avoid release to the environment.

### SECTION 13: DISPOSAL CONSIDERATIONS

**13.1. Waste treatment methods**

**Waste Disposal Recommendations:** Dispose of waste material in accordance with all local, regional, national, and international regulations.

### SECTION 14: TRANSPORT INFORMATION

In Accordance With ICAO/IATA/IMDG/DOT

**14.1. UN Number** Not regulated for transport

**14.2. UN Proper Shipping Name** Not regulated for transport

**14.3. Additional Information**

**Other information** : No supplementary information available.

**Transport by Sea** Not regulated for transport

**Air Transport** Not regulated for transport

### SECTION 15: REGULATORY INFORMATION

**15.1 US Federal Regulations**

**Poly Ethylene Glycol (25322-68-3)**

SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
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**Polyethylene glycol (25322-68-3)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory

**15.2 US State Regulations** Neither this product nor its chemical components appear on any US state lists.

### SECTION 16: OTHER INFORMATION

**Revision Date** : 04/02/2015

**Indication of Changes** : Revision date.

**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

**GHS Full Text Phrases:**

STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H335	May cause respiratory irritation

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