

Safety Data Sheet

BETAPEG 400 NF

SECTION I. IDENTIFICATION

I.1 Material Code: **BTE1066** I.2 Language: **English** I.3 Version: **1**
 I.4 Issuing date: **21/07/2009** I.5 Update: **16/04/2015**
 I.6 Issuing company name: **Everchem Specialty Chemicals**
 1400 N. Providence Rd. Suite 302
 Media, PA 19063
 I.7 In case of emergency contact: **For Chemical Emergency - Spill, Leak, Fire, Exposure or Accident**
 Call CHEMTREC Day or Night USA + Canada = 1-800-424-9300 / 703-527-3887
 I.8 Commercial name: **BETAPEG 400 NF**
 I.9 Synonyms: **Polyoxyethylene glycol 400, PEG 400**
 I.10 Applications: **Industrial chemical intermediary**

SECTION II. HAZARD(S) IDENTIFICATION

II.1 NFPA: Health **1** Flammability **1** Reactivity **0** Special Risk
 II.2 HMIS: Health **1** Flammability **1** Reactivity **0** Personal Protection
 II.3 Hazard statement: **Not a hazardous substance or mixture.**

II.4 GHS:

Signal word: **Not a hazardous substance or mixture.**
 Pictogram: **Not a hazardous substance or mixture.**

II.5 Precautionary statement (s):

Keep container tightly closed.
Keep away from heat/sparks/open flame. - No smoking.
Wear protective gloves and eye/face protection.
Store in cool/well-ventilated place.
Avoid release to the environment.

SECTION III. COMPOSITION/INFORMATION ON INGREDIENTS

III.1 Chemical Name: **Polyethylene glycol 400**
 III.2 No. CAS: **25322-68-3**
 III.3 Composition

Chemical substances	%	No. CAS	No. ONU	NFPA		
				Health	Flammability	Reactivity
<i>Polyethylene glycol</i>	100	25322-68-3	NR	1	1	0

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SECTION IV. FIRST-AID MEASURES

IV.1 Emergency in case of:

- Ingestion:** *Can cause abdominal pain, dizziness and vomit.*
- Inhalation:** *Move the to a ventilated area.
If the person is not breathing, give artificial respiration. If breathing is difficult, apply oxygen.
Get immediate medical attention.*
- Contact:** *Prolonged exposure can cause skin irritation.*

IV.2 First aid in case of:

- Ingestion:** *Give 2 glasses of water and induce vomit .
Never give anything through the mouth to an unconscious person.
Get medical attention.*
- Inhalation:** *Move the person to a ventilated area.
If the person if not breathing, give artificial respiration. If breathing is difficult, apply oxygen.*
- Contact:** *Wash with water for ten minutes to remove the remaining material.*

SECTION V. FIRE-FIGHTING MEASURES

V.1 Means of extinction:

- | | | | |
|---------------|----------|-------------------------|----------|
| Water: | X | Chemical powder: | X |
| Foam: | X | Other media: | . |
| CO2: | X | | |

V.2 Specific personal protection equipment to be used for firefighting:

Use autonomous equipment (SCBA) and complete firefighter equipment.

V.3 Special procedure and precautions during firefighting:

*Keep away from ignition sources.
Avoid material inhalation or products of its combustion.
Use water spray, fog or foam.*

V.4 Risk conditions for an unusual fire

In case of fire, formation of toxic combustion gases is possible.

V.5 Hazardous combustion products

In case of fire, CO and CO2 are released.

SECTION VI. ACCIDENTAL RELEASE MEASURES

VI.1 Immediate Procedure and Precautions

Contain leakage using appropriate protective equipment. Collect with absorbent material, place material in a suitable container for disposal.

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VI.2 Mitigation Method

Use inert material to contain the leak or spill.

SECTION VII. HANDLING AND STORAGE

VII.1 During handling:

*Avoid contact with eyes and skin.
Smoking should be prohibited in storage areas and during its use.*

VII.2 During storage:

Store in a dry, well-ventilated area away from flame, heat, or other ignition sources.

SECTION VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION

VIII.1 Specific personal protection equipment - Hand Protection

Butyl, Neoprene or PVC gloves.

VIII.2 Specific personal protection equipment - Eyes Protection

Safety glasses.

VIII.3 Specific personal protection equipment - Other Protection

Protective clothing to minimize skin contact and chemical resistant shoes should be used.

SECTION IX. PHYSICAL AND CHEMICAL PROPERTIES

IX.1 Boiling Point, ° C	>200	IX.9 Relative density @ 20 ° C	min 1.1
IX.2 Melting Point, ° C	4a8	IX.10 pH	4.5 - 7.5
IX.3 Flash Point, ° C	> 250	IX.11 Molecular weight, g/gmol	380 - 420
IX.4 Auto ignition temperature, ° C	> 360	IX.12 Physical state, 25°C	Viscous Liquid
IX.5 Evaporation speed	ND	IX.13 Color	Colorless
IX.6 Solubility in water	Soluble	IX.14 Odor	Characteristic
IX.7 Vapour pressure @ 25 ° C	<0.1	IX.15 Ignition limits	ND
IX.8 Volatility percentage (21 ° C)	ND	IX.16 Other data	Hygroscopic

SECTION X. STABILITY AND REACTIVITY

X.1 Stability

Stable.

X.2 Incompatibility

Oxidants.

X.3 Hazardous decomposition products

When heated to decomposition, carbon monoxide and carbon dioxide are produced.

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X.4 Spontaneous polymerization

Will not occur.

X.5 Other conditions to ensure during the use of the chemical to prevent it from suddenly reacting

Heavy oxidants.

SECTION XI. TOXICOLOGICAL INFORMATION

XI.1 Acute toxicity

LD50 Oral - Rat - 30,000 mg/kg

Inhalation: No data available

LD50 Dermal - Rabbit - > 20,000 mg/kg

XI.2 Skin corrosion / irritation

Skin - Rabbit

Result: No skin irritation - 4 h

XI.3 Eye irritation

Eyes - Rabbit

Result: Mild eye irritation

XI.4 Sensitization

Non-sensitizing

XI.5 Germ cell mutagenicity / carcinogenicity

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA

SECTION XII. ECOLOGICAL INFORMATION

XII.1 Biodegradation:

80 % (28 d)

readily degradable

Method: OECD 301 E

XII.2 Fish toxicity:

LC50 > 10 g/l (48 h, golden orfe)

Method: DIN 38412 T.15

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SECTION XIII. DISPOSAL CONSIDERATIONS

XIII.1 Waste disposal information

Recommended disposal is by incineration or landfill approved.

All waste must be handled in accordance with local, state and federal regulations. Legislation addressing waste disposal requirements may differ by country, state and/ or territory.

SECTION XIV. TRANSPORT INFORMATION

XIV.1 DOT

Not restricted

XIV.2 IMDG

Not restricted

XIV.3 IATA

Not restricted

XIV.4 No. UN

NR

SECTION XV. REGULATORY INFORMATION

TSCA Status: All components of this product are listed on the TSCA Inventory.

SARA (section 311/312):

Reactive hazard: No

Pressure hazard: No

Fire hazard: No

Immediate/acute: No

Delayed/chronic: No

SARA 313 information: This product does not contain any toxic chemical listed under Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986.

Clean Water Act: Contains no known priority pollutants at concentrations greater than 0.1%.

Volatile organic compounds VOC: Remarks: Not Available

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SECTION XVI. OTHER INFORMATION

XVI.1 Bibliography:

PERRY, Manual del ingeniero químico, Sexta Edición, Edit. Mc. Graw Hill.

NOM-018-STPS-2000, Sistema para la identificación y comunicación de peligros y riesgos por sustancias químicas peligrosas en los centros de trabajo.

GRE 2012 (Guía de respuesta en caso de emergencia).

CARRIAGE OF DANGEROUS GOODS, INTERNATIONAL MARITIME DANGEROUS GOODS (IMDG) CODE, ANNEXES AND SUPPLEMENTS, Revised Emergency Response Procedures for Ships Carrying , Dangerous Goods (EmS Guide) , Ref. T3/1.01.

NFPA 704, Sistema normalizado para la identificación de los riesgos de materiales para la respuesta a emergencia.

FEDEX Guía de Ayuda para Mercancías Peligrosas 2014.

Reglamentación sobre Mercancías Peligrosas de la IATA, 52a Edición.

<http://www.sigmaldrich.com/safety-center.html>

<http://www.avantormaterials.com/search.aspx?searchtype=msds>

http://www.merckmillipore.com/MX/es/documents/Z.qb.qB.tecAAAFDDJUsznLq.nav?CategoryName=010814123202&CategoryDomainName=Merck-content_catalog

IMDG Code - International Maritime Dangerous Goods.

SGA - GSA (Globally Harmonized System).

Reglamento para el transporte terrestre de materiales y residuos peligrosos.

NMX-R-019-SCFI-2011 Sistema armonizado de clasificación y comunicación de peligros de productos químicos.

NA: Not Applicable ND: Not Determined NR: Not Registered or Not Regulated

The information contained in this Safety Data Sheet has been obtained from reliable sources, however, there is no express or implied warranty as to its accuracy or correctness.

The opinions expressed herein are those of qualified professionals, the information given is currently known on the subject. The use of this information and of the product is outside the control of the supplier.

The user is obliged to determine the conditions of safe use of the product.