

# PEG-4000

## Safety Data Sheet

Issue date:17/03/2015 Revision date:20/04/2015 version number:2.0

### No.1Section: Product and corporate identity

#### 1.1.Product Identification

Product Category : Chemical material  
 Trademark : PEG-4000  
 Chemical Name : Polyethylene glycol-4000  
 CAS No : 25333-68-3  
 product properties : organic products  
 Product Category : Trade products

#### 1.2.Product recommended uses and restricted uses

##### 1.2.1.Product recommended use

Main application areas : industrial use  
 Product Usage : Surfactant  
 Defoaming agent, wetting agent

##### 1.2.2.Restricted use

No additional information

#### 1.3.Supplier details

Jiahua Chemical (Maoming) Co., Ltd.

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ChinaB-03 T: +86-0668-2721972

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#### 1.4.Emergency contact number

Emergency contact number : +86-21-20670888

### No.2Section: Hazards Overview

#### 2.1.Substance category

Adverse effects on physical and chemical properties, human health and the environment

To the best of our current knowledge, this product does not present any specific risks when used under normal conditions.

#### 2.2.tag element

Pictograms : none  
 Hazard information and warning words : warn  
 Precaution : Avoid contact with skin and clothing  
 Other hazardous information : no data

#### 2.3.Other information

Other dangers : There are no specific known hazards if storage and handling regulations are taken into account.

### No.3Section: Ingredient/Composition Information

#### 3.1.substance

Substance category : Substances with a certain molecular weight distribution  
 name : Polyethylene glycol-4000  
 CAS No : 25322-68-3

name	Product identification number	concentration%
PEG-4000	(CAS No.) 25322-68-3	≈ 100

#### 3.2.mixture

not applicable

### No.4Section: First aid measures

#### 4.1.Description of first aid measures

conventional : Leave the scene quickly to fresh air and take off contaminated clothes.  
 inhalation : Leave the scene quickly and go to fresh air. If you feel unwell, please seek medical attention.  
 skin contact : Wash with plenty of soap and running water. If you feel unwell, seek medical attention.  
 eye contact : Rinse with plenty of running water15minutes, please seek medical attention if you feel unwell. Rinse mouth  
 ingest : with water, drink plenty of water, induce vomiting, and seek medical attention.

### 4.2. Most important symptoms and effects: acute and chronic

Symptoms/Injury : No major symptoms are expected.

### 4.3. Signs that require immediate medical attention and special treatment

Treatment is based on symptoms (elimination of contamination, vital organs), there is no specific method.

## No.5 Section: Firefighting Measures

### 5.1. Extinguishing agent

Suitable fire extinguishing media : Alcohol-resistant foam, dry powder fire extinguishing agent, water mist.  
 Unsuitable fire extinguishing media : Do not use water flow.

### 5.2. special hazards

fire : May release toxic vapors.  
 explosion accident : none.  
 Reaction to fire : Avoid breathing excessive smoke.  
 Decomposition products in case of fire : carbon oxide (CO, CO<sub>2</sub>).

### 5.3. Precautions for firefighters

fire prevention measures : Approach against the wind, avoid static discharge, and do not inhale gas/mist/vapor/spray.  
 fire guide : Use water mist to cool exposed fire containers.  
 Safeguard : It is recommended that emergency responders wear self-contained positive pressure respirators and fire protective clothing (see section 8 part). May  
 Other Information : release: Toxic combustion products.

## No.6 Section: Accidental release measures

### 6.1. Personal protective measures, protective equipment and emergency procedures

routine measures : Wear personal protective equipment.

#### 6.1.1. Non-emergency responders

protective equipment : For details, refer to Chapter 8 Section: "Exposure controls/personal protection".

#### 6.1.2. emergency response personnel

protective equipment : For details, refer to Chapter 8 Section: "Exposure controls/personal protection".

### 6.2. Environmental protection measures

Avoid releases to the environment.

### 6.3. Methods and materials for containment and cleanup

control measures : Clean all spills as soon as possible and collect and dispose of them with absorbent.  
 Cleaning method : Absorb spills to prevent material loss.  
 Reaction to fire : Avoid breathing excessive smoke.  
 Other Information : To prevent spillage from slipping.

### 6.4. Other Information

See other sections (8, 13).

## No.7 Section: Handling and Storage

### 7.1. Measures for safe operation

Other hazards during operation : The product is handled in accordance with general occupational health and safety regulations and no other specific measures are required. Follow good  
 Safe operating measures : industrial hygiene and safety practices when handling and do not pour waste into sewers. Do not eat, drink, or smoke while using this product. When  
 hygiene measures : eating or smoking after handling, wash hands and other parts of body that come into contact with product with mild soap and water. Wash contaminated  
 clothing before next use.

### 7.2. Safe storage conditions

technical measures : Emergency water eyewash stations and safety showers should be provided near product operations. Ensure adequate air circulation.  
 Storage conditions : Store in a cool, ventilated place. Prevent frost formation. Avoid heat and direct sunlight. Store in original container. Strong base,  
 Products to avoid storing : strong acid.  
 Storage temperature : < 50°C  
 heat and ignition sources : Avoid heat and direct sunlight.  
 Mixed storage prohibitions : Storage should avoid strong oxidants, strong alkalis, and strong acids. Store separately from  
 storage area : food. Avoid direct light. Prevent frost formation.  
 Packaging Materials : no data.

### 7.3. specific purpose

The first part lists the purpose of the relevant logos. Relevant suggestions are in Chapter 7 Some will be mentioned, please pay attention.

## No.8 Section: Exposure controls and personal protection

### 8.1. Control parameters

Other Information : no data

### 8.2.Contact control

Appropriate engineering controls

- : Require good ventilation in the workplace. If good ventilation is not available and particle or solvent vapor concentrations are below relevant occupational exposure limits, suitable respiratory protective equipment should be worn.

personal protective equipment

- : Prevent risk of splashes: Goggles, gloves and protective clothing.

hand protection

- : Suitable safety gloves that are chemical-resistant, durable and have direct skin contact. For example: nitrile rubber, chloroprene rubber, butyl rubber and others.

eye protection

- : To prevent splashing liquid from contacting your eyes, wear protective glasses.

Skin and body protection

- : Equipped with standard protective clothing and chemical-resistant safety shoes or boots.

respiratory protection

- : No specific requirements.



Protection against thermal hazards

- : Equipped with self-contained breathing apparatus to protect against heat.

environmental exposure controls

- : Ensure emissions comply with all applicable air pollution control regulations.

Other Information

- : Please wash your hands and face after work and before breakfast. Keep work clothes and outerwear separate. Emergency water eyewash stations and safety showers should be provided near product operations. Do not eat, drink, or smoke while using this product. Follow good industrial hygiene and safety practices.

### No.9Section: Physical and chemical properties

#### 9.1.Basic information on physical and chemical properties

physical state

- : solid matter

Appearance

- : solid matter

color

- : Milky white solid

pH(1%aqueous solution)

- : 5.0-7.5

Degree of ethoxylation

- : /

Effective substance concentration (%)

- : about100

Hydroxyl value (mgKOH/g)

- : 26~32

Moisture content (%)

- : ≤1.0

HLB

- : /

Cloud point (°C,1%aqueous solution)

- : /

Melting point (°C)

- : 54

Freezing point

- : none

Flash point

- : no data

natural temperature

- : no data

Decomposition temperature

- : no data

### 9.2.Other Information

Other properties

- : Hygroscopic.

Other information

- : This product is in a non-solid or granular form when used.

### No.10Section: Stability and Reactivity

#### 10.1.Reactivity

No hazardous reactions if stored and handled as described above.

#### 10.2.chemical stability

Stable to use under normal conditions. Polymerization: None

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### 10.3.Possibility of hazardous reactions

None under normal conditions.

### 10.4.Conditions to avoid

If used in accordance with the instructions and under the conditions of use and storage.

### 10.5.incompatible substances

Isocyanate, oxidizing agent.

### 10.6.Hazardous decomposition products

Carbon oxide (COandCO<sub>2</sub>), nitrogen oxide. When heated to decompose, dangerous smoke is released.

## No.11Section: Toxicological Information

### 11.1.Toxicological effects information

acute toxicity	:	no data
Skin irritation or corrosion	:	no data
pH	:	5.0-7.0
Serious eye damage/irritation	:	no data
pH	:	5.0-7.0
respiratory/skin allergies	:	no data
Germ cell mutant	:	no data
Carcinogenicity	:	no data
reproductive toxicity	:	no data
Specific target organ toxicity (single exposure)	:	no data
Specific target organ toxicity (repeated exposure)	:	no data
Aspiration hazard	:	no data
Possible human health effects and symptoms	:	It is virtually non-toxic after a single ingestion. It is almost non-toxic upon skin contact. When used and operated in accordance with the instructions, this
Other Information	:	product does not have any harmful effects based on our experience and the information provided to us.

## No.12Section: Ecological Information

### 12.1.toxicity

Ecology – General	:	When used and operated in accordance with the instructions, this product does not have any harmful effects based on our experience and the information provided to us. no
Ecology – Air	:	data
Ecology – Water	:	This product has minimal potential for acute toxicity to aquatic life. The potential for acute toxicity to groundwater, surface water and urban drainage is also minimal.

### PEG-4000 (25322-68-3)

Other Information

This product has not been tested. This statement is based on products of similar structure or composition.

### 12.2.Persistence and degradability

### PEG-4000 (25322-68-3)

Persistence and degradability

Able to undergo moderate biodegradation

### 12.3.Bioaccumulation potential

### PEG-4000 (25322-68-3)

Bioaccumulation potential

This material has not been tested

### 12.4.Mobility in soil

### PEG-4000 (25322-68-3)

Ecology - Soil

Adsorption into the solid soil phase is not expected. Volatility: Not available.

### 12.5. PBTandvBAssessment results

No other information.

### 12.6.Other adverse effects

Other adverse effects	:	unknown.
Other Information	:	This product has not been tested. This statement is derived from the properties of the individual components.

### No.13Section: Disposal

#### 13.1.Waste disposal methods

Regional regulations (waste)	:	Dispose of waste in accordance with local or national regulations.
Waste disposal methods	:	Collect all waste in suitable labeled containers and dispose of in accordance with local regulations. Do not discharge
Sewage treatment advice	:	wastewater into drains or the environment.
Waste disposal advice	:	Uncontaminated packaging can be reused. Packages that cannot be cleaned should be handled in the same manner as product. Empty containers should be recovered, recycled or disposed of in accordance with local regulations.
Other information	:	Dispose of empty, uncleaned containers in the same manner as the packaging containing the product. Empty
Ecology – Waste Materials	:	containers should be washed thoroughly with plenty of clean water to avoid release into the environment.

### No.14Section: Shipping Information

according toADR/RID/IMDG/IATA/ADN

ADR	IMDG	IATA	ADN	RID
14.1.United Nations number				
There are no shipping regulations.				
14.2. United Nations Formal technical name of dangerous goods				
not applicable	not applicable	not applicable	not applicable	not applicable
14.3.Transport hazard level				
not applicable	not applicable	not applicable	not applicable	not applicable
not applicable	not applicable	not applicable	not applicable	not applicable
14.4.Packaging category				
not applicable	not applicable	not applicable	not applicable	not applicable
14.5.Environmental hazard				
Environmental hazards: None	Environmental hazards: None Marine pollutants: None	Environmental hazards: None	Environmental hazards: None	Environmental hazards: None

#### 14.6.Special protection for users

##### 14.6.1.Land transportation

##### 14.6.2.Shipping

##### 14.6.3.air freight

##### 14.6.4.inland waterway transport

Does it belong toANDcontrol : no

##### 14.6.5.Rail transport

Whether transportation is prohibited (RID) : no

### No.15Section: Regulatory Information

#### 15.1.Specific regulations/legislation for safety, health and environment

##### 15.1.1.Chinese regulations

Chemical related regulations and chemical label information : Regulations on the safe use of chemicals in the workplace ([1996]issued by the Ministry of Labor423Number)  
GB15258-2009Regulations on preparation of chemical safety labels. Law of the People's Republic of China on the

Disposal regulations to note : Prevention and Control of Environmental Pollution by Solid Waste

#### 15.2.chemical safety assessment

The supplier has not performed a chemical safety assessment for this substance.

### No.16Section: Additional Information

SOURCE : Manufacturer/Supplier  
Other information : no further information

This information is based on our current state of knowledge and describes the product for health, safety and environmental requirements purposes only. Therefore, it should not be construed as a guarantee of any specific performance of this product.