

MATERIAL SAFETY DATA SHEET

Version1.7

Date of last alteration:01/13/2025

1. Chemical Product and Company Identification

Product Name : Polyethylene Oxide
 Other name : PEO, Polyethylene Oxide Powder
 Recommended Uses : Construction/Building, Oil and Mining, Paper Making, Agriculture, Daily chemical
 Textile, Dye and Paint, Electronics and Mechanical, Medical and Food
 Manufacturer : Shandong Charing Industry Co.,Ltd
 Address : ROOM 1402,ZONE 17 AND 18, NO.19BUILDING, LUNENG
 LINGXIUCHENG, JINAN CITY, SHANDONG PROVINCE,CHINA
 Post Code : 250000
 TEL : +86-131-7667-0070
 E-mail : sdcharing@sdcharing.com

2. Hazards Identification

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation(EC) No 1272/2008.

This substance is not classified as dangerous according to Directive 67/548/EEC.

2.2 GHS label elements, including precautionary statements

The product does not need to be labelled in accordance with EC directives or respective national laws.

2.3 Other hazards which do not result in classification

This substance/mixture contains no components considered to be either persistent,

Bioaccumulative and toxic(PBC), or very persistent and very bioaccumulative(vPvB) at levels Of 0.1% or higher.

3. Composition, Information on Ingredients

3.1 Substances

Main ingredient	Formula	Composition	CAS NO.
Poly(ethylene oxide) Concentration			
Ethene,homopolymer,oxidized	[C ₂ H ₄ O] _N	≥98%	25322-68-3
calcium carbonate		≤2%	471-34-1

4. First Aid Measures

4.1 Description of first aid measures

General advice : Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms/effects, acute and delayed

no data available

4.3 Indication of immediate medical attention and special treatment needed

if necessary : no data available

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Specific hazards arising from the chemical

no data available

5.3 Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Avoid breathing dust. For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so.

Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and material for containment and cleaning up

Pick up and arrange disposal. Sweep up and shovel.

Keep in suitable, closed containers for disposal.

7. Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Avoid exposure - obtain special instructions before use.

Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

8. Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure limit values : no data available

Biological limit values : no data available

8.2 Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice.

Wash hands before breaks and at the end of workday.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Safety glasses with side-shields conforming to EN166.

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Wear impervious clothing.

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Handle with gloves.

Gloves must be inspected prior to use.

Use proper glove removal technique(without touching glove's outer surface) to avoid skin

contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Respiratory protection

Wear dust mask when handling large quantities.

Thermal hazards : no data available

9. Physical and chemical properties

Physical state Form : solid
Colour : no data available
Odour : no data available
Melting point/ freezing point : no data available
Boiling point or initial boiling point and boiling range : no data available
Flammability : no data available
Lower and upper explosion limit / flammability limit : no data available
Flash point : no data available
Auto-ignition temperature : no data available
Decomposition temperature : no data available
pH : no data available
Kinematic viscosity : no data available
Solubility : no data available
Partition coefficient n-octanol / water (log value) : no data available
Vapour pressure : no data available
Density and/or relative density : no data available
Relative vapour density : no data available
Particle characteristics : no data available

10. Stability and reactivity**10.1 Reactivity**

no data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

no data available

10.4 Conditions to avoid

no data available

10.5 Incompatible materials

no data available

10.6 Hazardous decomposition products

no data available

11. Toxicological information**Acute toxicity**

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LD50 Oral - Rat	: > 14.000mg/kg
Inhalation	: no data available
Dermal	: no data available
Skin corrosion/irritation	: no data available
Serious eye damage/irritation	: no data available
Respiratory or skin sensitization	: no data available
Germ cell mutagenicity	: no data available
Carcinogenicity	
IARC: No component of this product represent at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.	
Reproductive toxicity	: no data available
STOT-single exposure	: no data available
STOT-repeated exposure	: no data available
Aspiration hazard	: no data available

12. Ecological Information

12.1 Toxicity

Toxicity to fish	: no data available
Toxicity to daphnia and other aquatic invertebrates	: no data available
Toxicity to algae	: no data available
Toxicity to microorganisms	: no data available

12.2 Persistence and degradability : no data available

12.3 Bioaccumulative potential : no data available

12.4 Mobility in soil : no data available

12.5 Other adverse effects : no data available

13. Disposal considerations

13.1 Disposal methods

Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

14. Transport information

14.1 UN Number

ADR/RID	: no data available
IMDG	: no data available
IATA	: no data available

14.2 UN Proper Shipping Name

ADR/RID	: no data available
IMDG	: no data available

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- IATA : no data available
- 14.3 Transport hazard class(es)**
- ADR/RID : no data available
- IMDG : no data available
- IATA : no data available
- 14.4 Packing group, if applicable**
- ADR/RID : no data available
- IMDG : no data available
- IATA : no data available
- 14.5 Environmental hazards**
- ADR/RID : no data available
- IMDG : no data available
- IATA : no data available
- 14.6 Special precautions for user**
- no data available
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**
- no data available

15. Regulatory information**15.1 Safety, health and environmental regulations specific for the product in question**

European Inventory of Existing Commercial Chemical Substances (EINECS) Not Listed.

EC Inventory Not Listed.

United States Toxic Substances Control Act (TSCA) Inventory Listed.

China Catalog of Hazardous chemicals 2015 Not Listed.

New Zealand Inventory of Chemicals (NZIoC) Listed.

Philippines Inventory of Chemicals and Chemical Substances (PICCS) Listed.

Vietnam National Chemical Inventory Listed.

Chinese Chemical Inventory of Existing Chemical Substances (China IECSC) Listed.

16. Other information

The details in this document are based on the state of our knowledge at the time of revision. They do not constitute an assurance of the described product properties in terms of statutory warranty requirements.

The providing of this document to a recipient does not relieve the recipient of his or her responsibility toward compliance with all laws and stipulations applicable to the product. This applies in particular to the further sale or distribution of the product or substances or items containing the product, in other jurisdictions and with regard to the protection of third-party intellectual property rights. If the described product is processed or mixed with other substances or materials, the details stated in this document cannot be conferred to the resultant new product unless this has been expressly mentioned. If the product is repackaged, the recipient is obligated to additionally provide the required safety-related information.