

## Safety Data Sheet

Product: TekLeu® PEO

Version: 1.0

Revision Date: 01/01/2024



### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier:

Substance name: Polyethylene Oxide  
CAS No.: 25322-68-3  
Product code: TekLeu®PEO  
REACH Registration No.: Irrelevant as pharmaceutical excipient

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Excipient  
Uses advised against: Not identified  
Reason why uses advised against: Not identified

#### 1.3 Details of the Supplier of the safety data sheet

##### 1.3.1 Details of the supplier of the safety data sheet:

Manufacturer/Supplier: Libertia Performance Chemicals Co., Ltd  
Creative Campus | Alfred-Nobel-Strasse 10 | 40789 Monheim am Rhein |  
Address: Germany  
Telephone number: 0086 138 18547689

### SECTION 2: Hazards identification

#### 2.1 Classification

##### 2.1.1 Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910. 1200)

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910. 1200)

##### 2.2 Label Elements

None required

##### 2.3 Hazards not otherwise classified (HNOC)

None identified

### SECTION 3: Composition/information on

Product identifier type in accordance	Identification number	name Weight % content (or range)	EC Number	CL/ M-factor/ATE
Polyethylene Oxide	25322-68-3	>95	n/a	n/a

### SECTION 4: First aid measures

#### 4.1 First aid procedures

Eye contact: Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if symptoms occur.  
Skin contact: Rinse skin with water. Get medical attention if symptoms occur.  
Inhalation: Remove to fresh air. If breathing is difficult, give oxygen. Get medical attention if symptoms occur.  
Ingestion: Do NOT induce vomiting. Get medical attention if symptoms occur.

#### 4.2 Notes to physician

Treat symptomatically.

### 4.3 Most important symptoms and effects

No information available.

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## SECTION 5: Firefighting measures

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### 5.1 Extinguishing media

Suitable extinguishing media	Water spray, carbon dioxide (CO <sub>2</sub> ), dry chemical, alcohol-resistant foam.
Unsuitable extinguishing media	No information available.
Flash Point	No information available.
Method	No information available.
Autoignition Temperature	No information available.

### 5.2 Explosion Limits

Upper	No data available
Lower	No data available
ensitivity to Mechanical Impact	No information available.
Sensitivity to Static Discharge	No information available.

### 5.3 Protection of firefighters

Specific hazards arising from the	Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.
Hazardous Combustion Products	Carbon monoxide (CO). Carbon dioxide (CO <sub>2</sub> ).
Protective Equipment and Precautions for Firefighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### 5.4 NFPA

Health	Flammability	Instability	Physical hazards
0	1	0	N/A

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## SECTION 6: Accidental release measures

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<b>6.1 Personal precautions</b>	Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation.
<b>6.2 Environmental precautions</b>	Avoid release to the environment. See Section 12 for additional Ecological
<b>6.3 Methods for Containment and C</b>	Sweep up and shovel into suitable containers for disposal. Avoid dust

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## SECTION 7: Handling and storage

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<b>7.1 Handling</b>	Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid ingestion and
<b>7.2 Storage</b>	Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials. Strong oxidizing agents.

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## SECTION 8: Exposure controls/personal protection

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<b>8.1 Exposure Guidelines</b>	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.
<b>8.2 Engineering Measures</b>	None under normal use conditions.
<b>8.3 Personal protective equipment</b>	
Eye/face protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910. 133 or European
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory protection	No protective equipment is needed under normal use conditions.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

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## SECTION 9: Physical and chemical properties

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### 9.1 Information on basic physical and chemical properties

Physical state	Powder Solid
Appearance	Off-white
Odor	Odorless

Odor threshold	No information available.
pH	No information available.
Melting point/Range	65 - 67 °C / 149 - 153 ° F
Boiling point/Range	No information available.
Flash point	No information available.
Evaporation rate	Not applicable
Flammability (solid,gas)	No information available.
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor pressure	No information available.
Vapor density	Not applicable
Specific gravity	No information available.
Solubility	Soluble in water
Partition coefficient (n-octanol/water)	No data available
Auto-ignition temperature	No information available.
Decomposition temperature	No information available.
Viscosity	Not applicable

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## SECTION 10: Chemical Stability & Reactivity Information

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<b>10.1 Chemical stability</b>	Stable under normal conditions.
<b>10.2 Reactive Hazard</b>	None known, based on information available
<b>10.3 Conditions to avoid</b>	Avoid dust formation. Incompatible products. Excess heat.
<b>10.4 Incompatible materials</b>	Hazardous polymerization does not occur.
<b>10.5 Hazardous Polymerization</b>	Carbon oxides.
<b>10.6 Hazardous Reactions</b>	None under normal processing.

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## SECTION 11: Toxicological information

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### 11.1 Acute Toxicity

#### 11.1.1 Product Information

Oral LD50	Based on ATE data, the classification criteria are not met. > 2000 mg/kg.	ATE
Dermal LD50	Based on ATE data, the classification criteria are not met. 2000 mg/kg.	ATE >
Mist LC50	Based on ATE data, the classification criteria are not met. ATE > 5 mg/l.	

#### 11.1.2 Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Polyethylene Oxide	LD50 = 22 g/kg ( Rat )	LD50 > 20 g/kg (Rabbit )	Not listed

Toxicologically Synergistic No information available.

### 11.2 Products

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	IARC	NTP	ACGIH	OSHA	Mexico
Polyethylene Oxide	Not listed	Not listed	Not listed	Not listed	Not listed

### 11.3 Information on toxicological effects

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure None known

STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects,both acute and delayed

No information available

Mutagenicity No information available

Reproductive effects No information available

Other Adverse Effects The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

**SECTION 12: Ecological information****12.1 Ecotoxicity**

Do not empty into drains.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Polyethylene Oxide	EC50 > 100mg/L 96h,(Scenedesmus subspicatus)	LC50 > 100 mg/L 96h, (Poecilia)	Not listed	EC50 > 100mg/L 48h,(Daphnia magna)
	OECD Guideline 201	Guideline 203		OECD Guideline 202

Persistence and degradability  
 Bioaccumulation/Accumulation  
 Mobility in environmental media

Soluble in water Persistence is unlikely based on information available.  
 No information available.  
 Will likely be mobile in the environment due to its water solubility.

**SECTION 13: Disposal considerations****13.1 Waste Disposal Methods**

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

**SECTION 14: Transport Information**

The product is not covered by international regulations on the transport of dangerous goods (DOT, IATA, IMO,IMDG/TDG).

**SECTION 15: Regulatory information****15.1 United States of America Inventory**

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Polyethylene Oxide	25322-68-3	X	ACTIVE	XU

**15.2 International Inventories**

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS). China (IECSC). Korea (KECL).

**15.3 U.S. Federal Regulations**

SARA 313 Not applicable  
 SARA 311/312 Hazard Categories See section 2 for more information  
 CWA (Clean Water Act) Not applicable  
 Clean Air Act Not applicable  
 OSHA - Occupational Safety and Health Administration  
 Not applicable  
 CERCLA Not applicable  
 California Proposition 65 This product does not contain any Proposition 65 chemicals.  
 U.S. State Right-to-Know Regulations  
 Not applicable  
 U.S. Department of Homeland This product does not contain any DHS chemicals.

**15.4 Other International Regulations**

Mexico - Grade No information available  
 Authorisation/Restrictions according to EU REACH

**15.4 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)

Polyethylene Oxide	25322-68-3	Listed	Not applicable	Not applicable	Not applicable
Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Polyethylene Oxide	25322-68-3	Not applicable	Not	Not applicable	Not applicable

**SECTION 16: Other information, including date of preparation or last revision**

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.