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SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Product	Polyethylene Glycol 400 Monolaurate (PEG400ML / PEG-8 Laurate)	**Revision date**	2026-11-16
Version	1.0	**Brand**	Richest

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

Product name	Polyethylene Glycol 400 Monolaurate (PEG400ML / PEG-8 Laurate)
Synonyms	PEG 400 Monolaurate; PEG400ML; PEG-8 Laurate; Polyethylene Glycol (400) Monolaurate; Polyoxyethylene Monolaurate; Polyethylene Glycol Monolaurate; PEGML
CAS No.	9004-81-3
EC No.	618-396-4 (public SDS identifier; confirm in final supplier SDS)
Molecular formula	Not applicable (mixture)
Molecular weight	Not applicable (oligomer distribution); '400' identifies the nominal polyethylene glycol component, not a fixed molecular weight of the monoester product
Relevant identified uses	Nonionic emulsifier, lubricant and defoamer; Lubricant, leveling agent and defoamer in fiber processing and latex paint; Pigment-grinding dispersant, oil-solvent solubilizer and vinyl-plastisol anti-blocking agent; Emulsifier for cosmetic and pharmaceutical formulations; no end-use regulatory grade is claimed
Uses advised against	No specific uses advised against were identified in the reviewed sources.
Company	Richest Group
Address	No. 999, Jiangyue Rd, Minhang, Shanghai 201114, China
Telephone	0086 21 5017 5386
E-mail	inquiry@richest-group.com
Website	www.richest-group.com
Emergency telephone number	0086 21 5017 5386

SECTION 2: Hazards identification

GHS Classification	Selected conservative public SDS classification: Warning; Acute Tox. 4 (oral) H302, Skin Irrit. 2 H315, Eye Irrit. 2 H319 and STOT SE 3 H335. Another public SDS reports 'Not classified'; the final Richest product-specific SDS must resolve this supplier-classification conflict.
Pictogram(s)	None
Signal word	Warning
Hazard statement(s)	H302 Harmful if swallowed; H315 Causes skin irritation; H319 Causes serious eye irritation; H335 May cause respiratory irritation
Precautionary statement(s)	None
Other hazards	No other hazards were identified in the reviewed sources.

SECTION 3: Composition/information on ingredients

Component	Polyethylene Glycol 400 Monolaurate (PEG400ML / PEG-8 Laurate)

SECTION 3: Composition/information on ingredients

CAS No.	9004-81-3
EC No.	618-396-4 (public SDS identifier; confirm in final supplier SDS)
Classification	Selected conservative public SDS classification: Warning; Acute Tox. 4 (oral) H302, Skin Irrit. 2 H315, Eye Irrit. 2 H319 and STOT SE 3 H335. Another public SDS reports 'Not classified'; the final Richest product-specific SDS must resolve this supplier-classification conflict.
Concentration	Content ≥99% (public typical specification)

SECTION 4: First-aid measures

If inhaled	Move to fresh air after inhalation.
In case of skin contact	Remove contaminated clothing and wash skin with soap and plenty of water.
In case of eye contact	Rinse eyes with clean water for at least 15 minutes.
If swallowed	After ingestion rinse mouth, do not induce vomiting and contact a doctor or poison center.
Most important symptoms and effects	No data available
Indication of immediate medical attention	Treat symptomatically. Show this safety data sheet to medical personnel.

SECTION 5: Fire-fighting measures

Suitable extinguishing media	Use dry chemical, carbon dioxide or alcohol-resistant foam. Firefighters should wear self-contained breathing apparatus if necessary.
Unsuitable extinguishing media	No data available
Special hazards arising from the chemical	PEG400ML (MULSIFAN 400 ML): Containers exposed to fire may rupture because of internal pressure; cool containers with water. Fire can release toxic carbon monoxide and carbon dioxide.
Advice for firefighters	Wear self-contained breathing apparatus and protective clothing appropriate for the surrounding fire.

SECTION 6: Accidental release measures

Personal precautions and emergency procedures	Avoid contact with the material. Ensure adequate ventilation. Wear appropriate personal protective equipment.
Environmental precautions	Prevent uncontrolled release to drains, soil and watercourses.
Methods for containment and cleaning up	Ventilate, avoid breathing mist or vapor and avoid skin/eye contact. Wear impermeable gloves, prevent entry to drains and collect the material in suitable closed containers for authorized disposal.

SECTION 7: Handling and storage

Precautions for safe handling	Handle in a well-ventilated place with suitable protective clothing. Avoid skin and eye contact and aerosol formation. Keep the container tightly closed in a dry, cool and well-ventilated place.
Conditions for safe storage, including incompatibilities	Keep tightly closed in a dry, cool and ventilated place, separated from food and incompatible materials. Public manufacturer shelf life: two years.

SECTION 8: Exposure controls/personal protection	
Occupational exposure limit values	PEG400ML (MULSIFAN 400 ML): The SDS lists no established occupational exposure limits.
Biological limit values	No biological limit values were identified in the reviewed sources.
Appropriate engineering controls	No occupational or biological exposure limits are stated in the public SDS. Provide adequate ventilation; wear tightly fitting safety goggles and suitable impervious gloves. Use respiratory protection if exposure limits or irritation are encountered.
Eye/face protection	Use safety eyewear appropriate to the risk of exposure.
Skin and body protection	Wear suitable protective gloves and clothing appropriate to the risk of exposure.
Respiratory protection	Use suitable respiratory protection if exposure limits may be exceeded or dust, mist or vapour is generated.
Thermal hazards	No specific thermal hazards were identified in the reviewed sources; see Sections 5 and 10.

SECTION 9: Physical and chemical properties	
Physical state	Not established
Colour	PEG400ML (MULSIFAN 400 ML): Clear, colourless to pale yellow liquid.
Odour	PEG400ML (MULSIFAN 400 ML): Faint odour.
Melting point / freezing point	PEG400ML (MULSIFAN 400 ML): Melting point/freezing point below 12 deg C.
Boiling point / boiling range	029 g/mL at 25°C, flash point 113°C and boiling point >260°C (literature)
Flammability	No data available
Explosion / flammability limits	No data available
Flash point	029 g/mL at 25°C, flash point 113°C and boiling point >260°C (literature)
Auto-ignition temperature	No data available
Decomposition temperature	No data available
pH	PEG400ML (MULSIFAN 400 ML): Approximately 6.0 at 5% concentration.
Viscosity	No data available
Solubility	PEG400ML (MULSIFAN 400 ML): Soluble in water.
Partition coefficient n-octanol/water	No data available
Vapour pressure	PEG400ML (MULSIFAN 400 ML): Less than 0.01 mmHg at 20 deg C.
Density and/or relative density	The public SDS lists density 1.
Relative vapour density	No data available
Particle characteristics	No data available
Additional information	Light amber to colorless/light yellow liquid in public sources. The public SDS lists density 1.029 g/mL at 25°C, flash point 113°C and boiling point >260°C (literature); these are SDS data, not release specifications.

SECTION 10: Stability and reactivity	
Reactivity	No data available
Chemical stability	PEG400ML (MULSIFAN 400 ML): Stable under ordinary conditions of use and storage.

SECTION 10: Stability and reactivity

Possibility of hazardous reactions	PEG400ML (MULSIFAN 400 ML): Hazardous polymerisation will not occur.
Conditions to avoid	PEG400ML (MULSIFAN 400 ML): Avoid moist air or water; avoid high temperatures in the presence of strong oxidising agents, strong acids or strong bases.
Incompatible materials	PEG400ML (MULSIFAN 400 ML): Strong oxidising agents, strong acids and strong bases, particularly at elevated temperature.
Hazardous decomposition products	PEG400ML (MULSIFAN 400 ML): Very high temperatures can produce carbon oxides; thermal decomposition can produce irritating aldehydes.

SECTION 11: Toxicological information

Toxicological summary	The selected SDS assigns Acute Tox. 4 (oral), skin/eye irritation and STOT SE 3. Numerical acute-toxicity and other endpoint values: no data available in that SDS.
Acute toxicity	GHS acute-toxicity classification: Selected conservative public SDS classification: Warning; Acute Tox. 4 (oral) H302, Skin Irrit. 2 H315, Eye Irrit. 2 H319 and STOT SE 3 H335. Another public SDS reports 'Not classified'; the final Richest product-specific SDS must resolve this supplier-classification conflict.; H302 H315 H319 H335
Skin corrosion irritation	GHS classification: Selected conservative public SDS classification: Warning; Acute Tox. 4 (oral) H302, Skin Irrit. 2 H315, Eye Irrit. 2 H319 and STOT SE 3 H335. Another public SDS reports 'Not classified'; the final Richest product-specific SDS must resolve this supplier-classification conflict.; H302 H315 H319 H335
Serious eye damage irritation	GHS classification: Selected conservative public SDS classification: Warning; Acute Tox. 4 (oral) H302, Skin Irrit. 2 H315, Eye Irrit. 2 H319 and STOT SE 3 H335. Another public SDS reports 'Not classified'; the final Richest product-specific SDS must resolve this supplier-classification conflict.; H302 H315 H319 H335

SECTION 12: Ecological information

Aquatic hazard classification	Not classified as hazardous to the aquatic environment in the reviewed public SDS.

SECTION 13: Disposal considerations

Product disposal methods	Send residues to a licensed chemical destruction facility or controlled incineration with flue-gas scrubbing where permitted. Do not discharge to sewer systems; manage contaminated packaging under local regulations.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal in accordance with local regulations.

SECTION 14: Transport information

UN Number (ADR/RID, IMDG, IATA)	Not regulated as dangerous goods
UN Proper Shipping Name	Not regulated as dangerous goods
Transport hazard class(es)	Not regulated as dangerous goods
Packing group	Not regulated as dangerous goods
Environmental hazards / Marine pollutant	See cited public SDS
Special precautions for user	ADR/RID, IMDG and IATA: Not dangerous goods in the cited public SDS, which expressly states 'For reference only, please check'; final shipment classification is subject to the Richest SDS.

SECTION 15: Regulatory information	
Safety, health and environmental regulations specific for the product	No food, cosmetic or pharmaceutical compliance status is claimed. Confirm inventory status, ethoxylation-related impurity requirements and destination restrictions against the final supplier documentation.

SECTION 16: Other information	
Full text of H-Statements	H302 Harmful if swallowed; H315 Causes skin irritation; H319 Causes serious eye irritation; H335 May cause respiratory irritation
Revision date	2026-11-16
Version	1.0
References	Supplier technical documents, public SDS/COA/TDS and regulatory sources reviewed. Public data citations are listed below. Public data sources: Polyethylene glycol Aliphatic ester — PEG400ML technical index: http://www.jshihua.com/product_detail_en/id/33.html | Polyethylene Glycol 400 Monolaurate, P1867 — CAS and PEG-8 Laurate identity: https://www.spectrumchemical.com/polyethylene-glycol-400-monolaurate-p1867 | PEG 400 ML — Polyethylene Glycol (400) Monolaurate: https://vistachems.com/products/peg400-ml | Polyethylene glycol monolaurate Safety Data Sheet: https://www.chemicalbook.com/msds/polyethylene-glycol-monolaurate.htm | Polyethylene glycol monolaurate Safety Data Sheets — alternative classification: https://www.lookchem.com/sds9004-81-3.html | MULSIFAN 400 ML Safety Data Sheet: https://tandcweb.com/zslubes/documents-pdf/Metalworking-SDS/MULSIFAN%20400%20ML%20%20SDS%20%204%2023%2020.pdf | MULSIFAN Metalworking Technical Data Sheet: https://tandcweb.com/zslubes/wp-content/uploads/2025/07/ZSUS_TDS_Metalworking_Mulsifan_7_18_25.pdf
Abbreviations	CAS: Chemical Abstracts Service; ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road; IMDG: International Maritime Dangerous Goods; IATA: International Air Transport Association; SDS: Safety Data Sheet.
Disclaimer	The information in this SDS applies to the specified product and is provided in good faith based on information available to Richest Group at the date of issue. It describes health, safety and environmental requirements and does not constitute a guarantee of product properties. Users must assess suitability and comply with applicable regulations.