

LIPOXOL 400 MED

Version: 4.11

Revision Date 2019/07/01

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1 Product identifier**

Trade name	LIPOXOL 400 MED
INCI	PEG-8

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

Use	Industrial use raw material for cosmetic agents raw material for pharmaceutical products
Uses advised against	

1.3 Details of the supplier of the safety data sheet

Company	SASOL Germany GmbH Anckelmannsplatz 1 20537 Hamburg Germany
	Telephone: +49 40 63684-1000 Telefax: +49 40 63684-3700
Information (Product safety):	Telephone: + 49 (0) 23 65 - 49 47 05 Telefax: + 49 (0) 23 65 - 49 92 40
E-mail address	msds-info.germany@de.sasol.com

1.4 Emergency telephone number

Emergency telephone number	+ 49 (0) 23 65 - 49 22 32
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SECTION 2: HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

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

2.2 Label elements

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

2.3 Other hazards

No hazards to be specially mentioned.

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

This product is a substance in the meaning of regulation (EC) 1907/2006.

CHEMICAL CHARACTERIZATION

polyethylene glycol 200 - 600

component type: Active ingredient**EC-No.:****Index-No.:****CAS-No.:** 25322-68-3**REACH No.:** Not relevant (polymer)**COMPONENTS TO BE NAMED IN ACCORDANCE WITH REGULATION (EC) 1907/2006 AS WELL AS OTHER HAZARDOUS INGREDIENTS AND CONTAINED SUBSTANCES WITH WORK PLACE LIMIT VALUES**

No hazardous ingredients

SECTION 4: FIRST AID MEASURES**4.1 Description of first aid measures**

General advice	No hazards which require special first aid measures.
In case of skin contact	Wash off with soap and water.
In case of eye contact	Rinse with plenty of water.
If swallowed	Consult a physician if necessary. Rinse mouth.

4.2 Most important symptoms and effects, both acute and delayed

Most important symptoms and effects, both acute and delayed	Symptoms: No information available.
	Risks: No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Indication of any immediate medical attention and special treatment needed	Treatment: No information available.
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SECTION 5: FIREFIGHTING MEASURES**5.1 Extinguishing media**

Suitable extinguishing media	Water, Foam, Dry powder, Carbon dioxide (CO ₂)
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5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting	Dangerous gases or fumes may occur in case of fire.
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5.3 Advice for firefighters

Special protective equipment	Wear self-contained breathing apparatus for firefighting if necessary.
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for firefighters**Further information**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures**Personal precautions**

Handle in accordance with good industrial hygiene and safety practice.

6.2 Environmental precautions**Environmental precautions**Avoid subsoil penetration.
Do not flush into surface water or sanitary sewer system.**6.3 Methods and materials for containment and cleaning up****Methods for cleaning up**

Use mechanical handling equipment. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling**Advice on safe handling**

No special technical protective measures required.

Advice on protection against fire and explosion

Normal measures for preventive fire protection.

Fire-fighting class

B: Fires involving liquids or liquid containing substances. Also includes substances which become liquid at elevated temperatures.

7.2 Conditions for safe storage, including any incompatibilities**Requirements for storage areas and containers**

No special storage conditions required.

Storage class (TRGS 510)

10-13: German Storage Class 10 to 13

Other data

Keep in a dry place.

container material

suitable materials: Steel

7.3 Specific end use(s)**Specific use(s)**

This information is not available.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

COMPONENTS WITH WORKPLACE CONTROL PARAMETERS

National occupational exposure limits

Control parameters / Substance name	Typ	Control parameters	Update	Basis
POLYETHYLENE GLYCOLS (AS A PARTICULATE)	TWA	10 mg/m ³	2010	WEEL Guides List
POLYETHYLENE GLYCOLS, PARTICULATE	ST ESL	50	12 2010	TX ESL
POLYETHYLENE GLYCOLS, VAPOR	ST ESL	1000	12 2010	TX ESL
POLYETHYLENE GLYCOLS, PARTICULATE	AN ESL	5	12 2010	TX ESL
POLYETHYLENE GLYCOLS, VAPOR	AN ESL	100	12 2010	TX ESL
POLYETHYLENE GLYCOLS (MW>200) (AS A PARTICULATE)	TWA	10 mg/m ³	2017	WEEL Guides List
	Must meet NAAQS.			
	Must meet 24 Hr NAAQS.			
POLYETHYLENGLYKOL 600 (PEG 600), EINATEMBARE FRAKTION	AGW	1,000 mg/m ³	01 2018	Germany TRGS 900
	If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).			
	Category II: substances with a resorptive effect.			

EUROPEAN OCCUPATIONAL EXPOSURE LIMITS

No data available

8.2 Exposure controls

PERSONAL PROTECTIVE EQUIPMENT

Respiratory protection

No personal respiratory protective equipment normally required. In inadequately ventilated areas, where workplace limits are exceeded, where unpleasant odours exist or where aerosols are in use, or smoke and mist occur, use self-contained breathing apparatus or breathing apparatus with a type A filter or appropriate combined filter (e.g. where aerosols are in use, or smoke and mist occur, A-P2 or ABEK-P2), in compliance with EN 141.

Hand protection

Coordinate hand protection with other chemicals used. Preventive hand protection is recommended., Use barrier cream regularly.

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Eye protection	Safety glasses
Hygiene measures	General industrial hygiene practice.
Protective measures	No special protective equipment required.

ENVIRONMENTAL EXPOSURE CONTROLS

General advice	Avoid subsoil penetration. Do not flush into surface water or sanitary sewer system.
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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	liquid; 20 °C; 1,013 hPa
Form	liquid
Colour	colourless
Odour	mild
Odour Threshold	No data available
pH	4.5 - 7.0; 100 g/l; 20 °C
Melting point/range	4 - 8 °C
Boiling point/boiling range	> 250 °C
Flash point	ca. 240 °C; DIN ISO 2592
Evaporation rate	No data available
Flammability (solid, gas)	not applicable (liquid)
Lower explosion limit	No data available
Upper explosion limit	No data available
Vapour pressure	< 0.1 hPa
Relative vapour density	No data available
Density	ca.1.126 g/cm ³
Water solubility	completely miscible
Partition coefficient: n-octanol/water	No data available
Ignition temperature	ca. 370 °C; DIN 51794
Auto-ignition temperature	Not applicable liquid with a flash point of > 200 °C
Viscosity, dynamic	105 - 140 mPas; 20 °C(Höppler)
Explosive properties	not expected based on structure and functional groups
Oxidizing properties	No data available

9.2 Other data

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Additional advice no explosion limits under standard conditions

SECTION 10: STABILITY AND REACTIVITY**10.1 Reactivity**

Note Stable at normal ambient temperature and pressure.
No decomposition if stored and applied as directed.

10.2 Chemical stability

Note No decomposition if stored normally.

10.3 Possibility of hazardous reactions

Hazardous reactions None known.

10.4 Conditions to avoid

Conditions to avoid Exposure to moisture
Direct heating, dirt, chemical contamination, sunlight, UV or ionising radiation.

10.5 Incompatible materials to avoid

Materials to avoid None known.;

10.6 Hazardous decomposition products

Thermal decomposition No decomposition if used as directed.

SECTION 11: TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects****Acute toxicity**

Acute oral toxicity polyethylene glycol 200 - 600:
LD50 Rat: > 2,000 mg/kg; OECD Test Guideline 401
Based on available data, the classification criteria are not met.
Category approach

Acute inhalation toxicity polyethylene glycol 200 - 600:
No data available

Acute dermal toxicity polyethylene glycol 200 - 600:
LD50 Rat: > 2,000 mg/kg; OECD Test Guideline 402
Based on available data, the classification criteria are not met.
Category approach

Skin corrosion/irritation

Skin irritation polyethylene glycol 200 - 600:
Rabbit: slightly irritating; OECD Test Guideline 404
Based on available data, the classification criteria are not met.
Category approach

Serious eye damage/eye irritation

Eye irritation polyethylene glycol 200 - 600:
Rabbit: slightly irritating; OECD Test Guideline 405

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Based on available data, the classification criteria are not met.
Category approach

Respiratory or skin sensitisation**Sensitisation**

polyethylene glycol 200 - 600:
Buehler Test Guinea pig: not sensitizing; OECD Test Guideline 406
Based on available data, the classification criteria are not met.
Category approach

Germ cell mutagenicity**Genotoxicity in vitro**

polyethylene glycol 200 - 600:
Ames test; Salmonella typhimurium; with and without metabolic activation: Non
mutagenic; OECD Test Guideline 471
Category approach

Genotoxicity in vivo

polyethylene glycol 200 - 600:
No data available

Remarks

polyethylene glycol 200 - 600:
Based on available data, the classification criteria are not met.

Carcinogenicity**Carcinogenicity**

polyethylene glycol 200 - 600:
Rat; oral feed; 2 years
(literature)
Animal testing did not show any carcinogenic effects.
Based on available data, the classification criteria are not met.
Category approach

Reproductive toxicity**Reproductive toxicity**

polyethylene glycol 200 - 600:
No data available

STOT - single exposure**Remarks**

polyethylene glycol 200 - 600:
The substance or mixture is not classified as specific target organ toxicant, single
exposure.

STOT - repeated exposure**Remarks**

polyethylene glycol 200 - 600:
The substance or mixture is not classified as specific target organ toxicant,
repeated exposure.

Repeated dose toxicity

polyethylene glycol 200 - 600:
Rat; Oral; 90-day
NOAEL: 1,128 mg/kg (based on body weight and day)
LOAEL: 2,820 mg/kg (based on body weight and day)
Target Organs: Kidney
Category approach
(literature value)

Aspiration hazard**Aspiration toxicity**

polyethylene glycol 200 - 600:
Not applicable

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SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	polyethylene glycol 200 - 600: LC50 (96 h) Cyprinus carpio (Carp): > 100 mg/l ; semi-static test; OECD Test Guideline 203 Category approach
Toxicity to fish - Chronic toxicity	polyethylene glycol 200 - 600: No data available
Toxicity to daphnia and other aquatic invertebrates	polyethylene glycol 200 - 600: EC50 (48 h) Daphnia magna (Water flea): > 100 mg/l ; static test; OECD Test Guideline 202 Category approach
Toxicity to daphnia and other aquatic invertebrates - Chronic toxicity	polyethylene glycol 200 - 600: No data available
Toxicity to aquatic plants	polyethylene glycol 200 - 600: EC50 (72 h) Desmodesmus subspicatus (green algae): > 100 mg/l ; static test; OECD Test Guideline 201; Category approach
Toxicity to bacteria	polyethylene glycol 200 - 600: EC50 Pseudomonas putida: > 10,000 mg/l; Cell multiplication inhibition test; DIN 38 412 Part 8 Category approach
Toxicity to soil dwelling organisms	polyethylene glycol 200 - 600: No data available
Toxicity to terrestrial flora	polyethylene glycol 200 - 600: No data available
Toxicity for other terrestrial non-mammalian fauna	polyethylene glycol 200 - 600: No data available

12.2 Persistence and degradability

Biodegradability	polyethylene glycol 200 - 600: Readily biodegradable.; > 60 %; 28 d; aerobic; OECD Test Guideline 301B Category approach (literature value)
	polyethylene glycol 200 - 600: Biodegradable in sea water; > 60 %; 28 d; marine test; ISO DIS 9439 Category approach (literature value)

12.3 Bioaccumulative potential

Bioaccumulation	polyethylene glycol 200 - 600: Bioconcentration factor (BCF): 3.16; QSAR
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12.4 Mobility in soil

Mobility	polyethylene glycol 200 - 600: Adsorption/Soil; Koc: 10; QSAR Not expected to adsorb on soil. The substance and its relevant degradation products decompose rapidly.
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12.5 Results of PBT and vPvB assessment

Results of PBT assessment	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
Results of PBT assessment	polyethylene glycol 200 - 600:

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This substance is not considered to be persistent, bioaccumulating and toxic (PBT).
This substance is not considered to be very persistent and very bioaccumulating (vPvB).

12.6 Other adverse effects

General advice polyethylene glycol 200 - 600:
None known.

SECTION 13: DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

Product Can be incinerated, when in compliance with local regulations.

waste code of the European Union: EWC A waste code in accordance with the European Waste Catalogue (EWC) may not be assigned to this product since it admits of a classification only when the consumer uses it for some purpose. The waste code must be determined in agreement with the regional waste disposal authority or company.

SECTION 14: TRANSPORT INFORMATION**14.1 UN number**

ADR Not dangerous goods
RID Not dangerous goods
ADN Not dangerous goods
IMDG Not dangerous goods
ICAO/IATA Not dangerous goods

14.2 Proper shipping name

ADR Not dangerous goods
RID Not dangerous goods
ADN Not dangerous goods
IMDG Not dangerous goods
ICAO/IATA Not dangerous goods

14.3 Transport hazard class

ADR Not dangerous goods
RID Not dangerous goods
ADN Not dangerous goods
IMDG Not dangerous goods
ICAO/IATA Not dangerous goods

14.4 Packing group

ADR Not dangerous goods
RID Not dangerous goods
ADN Not dangerous goods
IMDG Not dangerous goods

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ICAO/IATA	Not dangerous goods
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14.5 Environmental hazards

ADR	Environmentally hazardous	no
RID	Environmentally hazardous	no
ADN	Environmentally hazardous	no
IMDG	Marine pollutant	no
ICAO/IATA	Environmentally hazardous	no

14.6 Special precautions for user

Not classified as dangerous in the meaning of transport regulations.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Remarks	No information available.
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SECTION 15: REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****NATIONAL/OTHER REGULATIONS**

Legislation on the control of major-accident hazards involving dangerous substances	Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. list entry in the directive: Not applicable
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NOTIFICATION STATUS

Switzerland. Consolidated Inventory	CH INV	listed (product or constituents are listed)
US. Toxic Substances Control Act	TSCA	listed (product or constituents are listed)
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)	DSL	listed (product or constituents are listed)
New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand	NZIOC	listed (product or constituents are listed)
Australia. Industrial Chemical (Notification and Assessment) Act	AICS	listed (product or constituents are listed)
Japan. Kashin-Hou Law List	ENCS (JP)	listed (product or constituents are listed)
Japan. Industrial Safety & Health Law (ISHL) List	ISHL (JP)	listed (product or constituents are listed)
Korea. Existing Chemicals Inventory (KECI)	KECI (KR)	listed (product or constituents are listed)
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	PICCS (PH)	listed (product or constituents are listed)
China. Inventory of Existing Chemical Substances (IECSC)	INV (CN)	listed (product or constituents are listed)

Please note: the names and CAS numbers which are used for this product in the stated inventories may deviate from the information which is listed in chapter 3.

15.2 Chemical safety assessment

polyethylene glycol 200 - 600

A Chemical Safety Assessment is not required for this substance (exempted from obligation to register).

SECTION 16: OTHER INFORMATION

Safety datasheet sections which have been updated:

- 8. Exposure controls/personal protection
- 12. Ecological information
- 15. Regulatory information

Further information:

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. This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

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Key or legend to abbreviations and acronyms used in the safety data sheet

ADN	Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
ADR	Accord européen relatif au transport international des marchandises Dangereuses par Route
AICS	Australian Inventory of Chemical Substances
ANSI	American National Standards Institute
ASTM	American Society of Testing and Materials (US)
BCF	Bioconcentration factor
CLP	Regulation on Classification, Labelling and Packaging of Substances and Mixtures
DIN	Deutsches Institut für Normung
DNEL	Derived No-Effect Level
DSL	Domestic Substances List
EC...	Effect concentration ... %
ENCS	Existing Notified Chemical Substances (Japan)
EWC	European Waste Catalogue
IATA	International Air Transport Association
IBC	Intermediate Bulk Container
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISHL	Industrial Safety and Health Law (Japan)
ISO	International Organization for Standardization
IUAPC	International Union of Pure and Applied Chemistry
KECI	Korea Existing Chemicals Inventory
LC...	Lethal Concentration, ...%
LD...	Lethal Dose, ...%
MARPOL	International Convention for the Prevention of Pollution From Ships
NDSL	Non-Domestic Substances List
NOAEL	no observable adverse effect level
NOEL/NOEC	No Observed-effect level/concentration
NZIoC	New Zealand Inventory of Chemicals
OECD	Organisation for Economic Co-operation and Development
PBT	persistent, bioaccumulative, toxic
PICCS	Philippine Inventory of Chemicals and Chemical Substances
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport international ferroviaire de marchandises dangereuses
TG	Test Guideline
TRGS	Technische Regeln für Gefahrstoffe
TSCA	Toxic Substances Control Act
vPvB	very persistent, very bioaccumulative
WGK	Wassergefährdungsklasse