

**LIPOXOL 3350 MED FLAKES**

Version: 4.09

Revision Date 12.02.2019

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

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**1.1 Product identifier****Trade name** LIPOXOL 3350 MED Flakes**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 HamburgTelephone: +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**

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**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.

**2.2 Label elements**

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

**2.3 Other hazards**

No hazards to be specially mentioned.

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**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

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

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**CHEMICAL CHARACTERIZATION**

polyethylene glycol &gt; 600-10000

**component type:** Active ingredient**EC-No.:**  
**REACH No.:** Not relevant (polymer)**Index-No.:****CAS-No.:** 25322-68-3**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 dangerous ingredients according to Regulation (EC) No. 1907/2006

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

<b>General advice</b>	No hazards which require special first aid measures.
<b>If inhaled</b>	Remove from exposure, lie down. If breathing is irregular or stopped, administer artificial respiration. Monitor breathing, give oxygen if necessary. Consult a physician.
<b>In case of skin contact</b>	Wash off with plenty of water.
<b>In case of eye contact</b>	Rinse with plenty of water.
<b>If swallowed</b>	Consult a physician. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

**4.2 Most important symptoms and effects, both acute and delayed**

<b>Most important symptoms and effects, both acute and delayed</b>	Symptoms: No information available. Risks: No information available.
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**4.3 Indication of any immediate medical attention and special treatment needed**

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

<b>Suitable extinguishing media</b>	Water spray, Dry powder, Foam, Carbon dioxide (CO <sub>2</sub> )
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**5.2 Special hazards arising from the substance or mixture**

<b>Specific hazards during firefighting</b>	Dangerous gases or fumes may occur in case of fire.
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**5.3 Advice for firefighters**

<b>Special protective equipment for firefighters</b>	In the event of fire and/or explosion do not breathe fumes. Wear self-contained breathing apparatus for firefighting if necessary.
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**Further information**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Cool closed containers exposed to fire with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Prevent fire extinguishing water from contaminating surface water or the ground water system.

**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Avoid dust formation.

**6.2 Environmental precautions**

**Environmental precautions** No special environmental precautions required.

**6.3 Methods and materials for containment and cleaning up**

**Methods for cleaning up** Use mechanical handling equipment. The material taken up must be disposed of in accordance with regulations. Avoid dust formation.

**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** When processing the product, the formation and enrichment of dusts must be avoided.  
Dust can form an explosive mixture in air.

**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** Keep tightly closed. Keep in a dry place.

**Storage class (TRGS 510)** 10-13: German Storage Class 10 to 13

**Other data** Stable under normal conditions.

**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**

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**8.1 Control parameters****COMPONENTS WITH WORKPLACE CONTROL PARAMETERS****National occupational exposure limits**

No data available

**EUROPEAN OCCUPATIONAL EXPOSURE LIMITS**

No data available

**DERIVED NO EFFECT LEVEL (DNEL)****Substance name: polyethylene glycol > 600-10000**

No data available

**PREDICTED NO EFFECT CONCENTRATION (PNEC)****Substance name: polyethylene glycol > 600-10000**

No data available

**8.2 Exposure controls****ENGINEERING MEASURES**

In case of dust being formed, provide for adequate extraction.

**PERSONAL PROTECTIVE EQUIPMENT**

<b>Respiratory protection</b>	No personal respiratory protective equipment normally required. In inadequately ventilated areas, where workplace limits are exceeded, where unpleasant odours exist or where dust, fibres and smoke occur, use self-contained breathing apparatus or breathing apparatus with a type P2 or P3 filter, in compliance with EN 143.
<b>Hand protection</b>	Coordinate hand protection with other chemicals used. Preventive hand protection is recommended. Use barrier cream regularly.
<b>Eye protection</b>	Safety glasses
<b>Hygiene measures</b>	Handle in accordance with good industrial hygiene and safety practice. Do not breathe dust or spray mist. Use barrier cream regularly.
<b>Protective measures</b>	No special protective equipment required.

**ENVIRONMENTAL EXPOSURE CONTROLS****General advice** No special environmental precautions required.

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

<b>Physical state</b>	solid; 20 °C; 1.013 hPa
<b>Form</b>	flakes
<b>Colour</b>	white
<b>Odour</b>	mild
<b>Odour Threshold</b>	No data available
<b>pH</b>	4 - 7; 100 g/l; 20 °C
<b>Melting point/range</b>	50 - 56 °C
<b>Boiling point/boiling range</b>	Not applicable
<b>Flash point</b>	ca. 250 °C; DIN ISO 2592
<b>Evaporation rate</b>	Not relevant / not applicable Justification: Solid
<b>Flammability (solid, gas)</b>	No data available
<b>Lower explosion limit</b>	Not applicable Justification: Solid
<b>Upper explosion limit</b>	Not applicable Justification: Solid
<b>Vapour pressure</b>	< 0,1 hPa; 20 °C
<b>Relative vapour density</b>	No data available
<b>Density</b>	1,21 g/cm <sup>3</sup> ; 20 °C 1,08 g/cm <sup>3</sup> ; 20 °C; (as aqueous solution, 50%) 1,068 g/cm <sup>3</sup> ; 80 °C
<b>Relative density</b>	No data available
<b>Water solubility</b>	ca. 550 g/l; 20 °C
<b>Partition coefficient: n-octanol/water</b>	No data available
<b>Ignition temperature</b>	ca. 420 °C; DIN 51794
<b>Auto-ignition temperature</b>	Not applicable solid with a melting point < 160°C
<b>Viscosity, dynamic</b>	70 - 110 mPas; 20 °C Höppler (50% H <sub>2</sub> O)
<b>Explosive properties</b>	not expected based on structure and functional groups
<b>Oxidizing properties</b>	not expected based on structure and functional groups

**9.2 Other data**

None known.

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**SECTION 10: STABILITY AND REACTIVITY**

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**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.

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**SECTION 11: TOXICOLOGICAL INFORMATION**

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**11.1 Information on toxicological effects****Acute toxicity**

**Acute oral toxicity** polyethylene glycol > 600-10000:  
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 > 600-10000:  
No data available

**Acute dermal toxicity** polyethylene glycol > 600-10000:  
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 > 600-10000:  
Rabbit: not 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 > 600-10000:  
Rabbit: not irritating; OECD Test Guideline 405  
Based on available data, the classification criteria are not met.  
Category approach

**Respiratory or skin sensitisation**

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<b>Sensitisation</b>	polyethylene glycol > 600-10000: Buehler Test Guinea pig: not sensitizing; OECD Test Guideline 406 Based on available data, the classification criteria are not met. Category approach
<b>Germ cell mutagenicity</b>	
<b>Genotoxicity in vitro</b>	polyethylene glycol > 600-10000: Ames test; Salmonella typhimurium; with and without metabolic activation: Non mutagenic; OECD Test Guideline 471 Category approach
<b>Remarks</b>	polyethylene glycol > 600-10000: Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>	
<b>Carcinogenicity</b>	polyethylene glycol > 600-10000: This information is not available.
<b>Reproductive toxicity</b>	
<b>Reproductive toxicity</b>	polyethylene glycol > 600-10000: No data available
<b>STOT - single exposure</b>	
<b>Remarks</b>	polyethylene glycol > 600-10000: The substance or mixture is not classified as specific target organ toxicant, single exposure.
<b>STOT - repeated exposure</b>	
<b>Remarks</b>	polyethylene glycol > 600-10000: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
<b>Repeated dose toxicity</b>	polyethylene glycol > 600-10000: Rat; Oral; 90-day NOAEL: 4.000 mg/kg (based on body weight and day) Target Organs: Liver literature value  polyethylene glycol > 600-10000: Rat; Oral; 2 Years NOAEL: 1.000 mg/kg (based on body weight and day) Symptoms: reduced body weight gain literature value
<b>Aspiration hazard</b>	
<b>Aspiration toxicity</b>	polyethylene glycol > 600-10000: Not applicable

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

<b>Toxicity to fish</b>	polyethylene glycol > 600-10000: LC50 (96 h) Cyprinus carpio (Carp): > 100 mg/l ; semi-static test; OECD Test Guideline 203
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	Category approach
<b>Toxicity to fish - Chronic toxicity</b>	polyethylene glycol > 600-10000: No data available
<b>Toxicity to daphnia and other aquatic invertebrates</b>	polyethylene glycol > 600-10000: EC50 (48 h) Daphnia magna (Water flea): > 100 mg/l ; static test; OECD Test Guideline 202 Category approach
<b>Toxicity to daphnia and other aquatic invertebrates - Chronic toxicity</b>	polyethylene glycol > 600-10000: No data available
<b>Toxicity to aquatic plants</b>	polyethylene glycol > 600-10000: EC50 (72 h) Desmodesmus subspicatus (green algae): > 100 mg/l ; Growth rate; static test; OECD Test Guideline 201; Category approach
	polyethylene glycol > 600-10000: NOEC (72 h) Desmodesmus subspicatus (green algae): 450 mg/l ; Biomass; static test; OECD Test Guideline 201; Category approach
<b>Toxicity to soil dwelling organisms</b>	polyethylene glycol > 600-10000: No data available
<b>Toxicity to terrestrial flora</b>	polyethylene glycol > 600-10000: No data available
<b>Toxicity for other terrestrial non-mammalian fauna</b>	polyethylene glycol > 600-10000: No data available
<b>12.2 Persistence and degradability</b>	
<b>Biodegradability</b>	polyethylene glycol > 600-10000: Readily biodegradable.; > 60 %; 28 d; aerobic; OECD Test Guideline 301B Category approach
	polyethylene glycol > 600-10000: Readily biodegradable.; > 70 %; 21 d; aerobic; OECD Test Guideline 301A
	polyethylene glycol > 600-10000: Biodegradable; > 60 %; 70 d; marine test; ISO DIS 9439 Category approach
<b>12.3 Bioaccumulative potential</b>	
<b>Bioaccumulation</b>	polyethylene glycol > 600-10000: No data available
<b>12.4 Mobility in soil</b>	
<b>Mobility</b>	polyethylene glycol > 600-10000: No data available
<b>12.5 Results of PBT and vPvB assessment</b>	
<b>Results of PBT assessment</b>	polyethylene glycol > 600-10000: Based on available data, the classification criteria are not met.
<b>12.6 Other adverse effects</b>	
<b>General advice</b>	polyethylene glycol > 600-10000: None known.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods



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<b>Product</b>	Can be disposed of as a solid waste or burned in a suitable installation subject to local regulations.
<b>waste code of the European Union: EWC</b>	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
ICAO/IATA	Not dangerous goods

#### 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

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Remarks No information available.

### 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

##### NOTIFICATION STATUS

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)
Australia. Industrial Chemical (Notification and Assessment) Act	AICS	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)
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)
Switzerland. Consolidated Inventory	CH INV	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 > 600-10000

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

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## SECTION 16: OTHER INFORMATION

### Safety datasheet sections which have been updated:

- 2. Hazards identification
- 3. Composition/information on ingredients
- 8. Exposure controls/personal protection
- 9. Physical and chemical properties
- 11. Toxicological information
- 12. Ecological information
- 15. Regulatory information
- 1. Identification of the substance/mixture and of the company/undertaking
- 2. Hazards identification
- 3. Composition/information on ingredients
- 15. Regulatory information
- 9. Physical and chemical properties

### 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.

### 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



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TSCA  
vPvB  
WGK

Toxic Substances Control Act  
very persistent, very bioaccumulative  
Wassergefährdungsklasse