

**LIPOXOL 6000 MED FLAKES**

Version: 4.03

Revision Date 2011/02/02

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

Trade name LIPOXOL 6000 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 Hamburg

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: msds-info.germany@de.sasol.com

**1.4 Emergency telephone number**

Emergency telephone number + 49 (0) 23 65 - 49 22 32

**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.

Classification (67/548/EEC, 1999/45/EC)

Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

**2.2 Label elements**

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

**2.3 Other hazards**

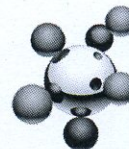
No hazards to be specially mentioned.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

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

**CHEMICAL CHARACTERIZATION**



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polyethylene glycol &gt; 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 dangerous ingredients according to Regulation (EC) No. 1907/2006

**4. FIRST AID MEASURES****4.1 Description of first aid measures****General advice**

No hazards which require special first aid measures.

**If inhaled**

Remove from exposure, lie down. If breathing is irregular or stopped, administer artificial respiration. Monitor breathing, give oxygen if necessary. Consult a physician.

**In case of skin contact**

Wash off with plenty of water.

**In case of eye contact**

Rinse with plenty of water.

**If swallowed**

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****4.3 Indication of any immediate medical attention and special treatment needed****5. FIRE-FIGHTING MEASURES****5.1 Extinguishing media****Suitable extinguishing media**

Water spray, Dry powder, Foam, Carbon dioxide (CO2)

**5.2 Special hazards arising from the substance or mixture****Specific hazards during fire fighting**

Dangerous gases or fumes may occur in case of fire.

**5.3 Advice for firefighters****Special protective equipment for fire-fighters**

In the event of fire and/or explosion do not breathe fumes. Wear self contained breathing apparatus for fire fighting if necessary.

**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.

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

Avoid dust formation.



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**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****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.

**7.2 Conditions for safe storage, including any incompatibilities**

**Requirements for storage areas and containers** Keep tightly closed. Keep in a dry place.

**Storage classification (VCI system/Germany):** 11; Combustible Solids

**Other data** Stable under normal conditions.

**7.3 Specific end uses****8. EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control parameters****COMPONENTS WITH WORKPLACE CONTROL PARAMETERS****NATIONAL OCCUPATIONAL EXPOSURE LIMITS**

Components	Typ	Control parameters	Update	Basis
POLYETHYLENGLYKOL 600 (PEG 600), EINATEMBARE FRAKTION	AGW	1,000 mg/m <sup>3</sup>	07 2009	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.				

The maximum allowable workplace concentrations for respirable and inhalable dusts are to be observed.

**EUROPEAN OCCUPATIONAL EXPOSURE LIMITS**

The maximum allowable workplace concentrations for respirable and inhalable dusts are to be observed.



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**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.

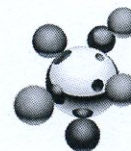
**ENVIRONMENTAL EXPOSURE CONTROLS**

<b>General advice</b>	No special environmental precautions required.
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**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, powder
<b>Colour</b>	
<b>Odour</b>	mild
<b>Odour Threshold</b>	
<b>pH</b>	4 - 7; 100 g/l; 20 °C
<b>Melting point/range</b>	55 - 62 °C
	not applicable
<b>Flash point</b>	ca. 250 °C; DIN 51376
<b>Evaporation rate</b>	
<b>Flammability (solid, gas)</b>	
<b>Lower explosion limit</b>	
<b>Upper explosion limit</b>	
<b>Vapour pressure</b>	< 0.1 hPa
<b>Relative vapour density</b>	
<b>Density</b>	1.21 g/cm <sup>3</sup>
<b>Water solubility</b>	ca. 500 g/l; 20 °C



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Partition coefficient: n-octanol/water

Ignition temperature &gt; 340 °C; DIN 51794

Autoignition temperature

Viscosity, dynamic 205 - 510 mPas; 20 °C Höppler (50% H<sub>2</sub>O)

Explosive properties

Oxidizing properties

**9.2 Other data**

None known.

**10. STABILITY AND REACTIVITY****10.1 Reactivity****10.2 Chemical stability****10.3 Possibility of hazardous reactions**

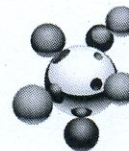
Hazardous reactions None known.

**10.4 Conditions to avoid****10.5 Incompatible materials to avoid****10.6 Hazardous decomposition products**

Thermal decomposition No decomposition if used as directed.

**11. TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects****Acute toxicity**Acute oral toxicity polyethylene glycol > 600:  
LD50 rat: > 2,000 mg/kg; OECD Test Guideline 401Acute dermal toxicity polyethylene glycol > 600:  
LD50 rat: > 2,000 mg/kg; OECD Test Guideline 402**Skin corrosion/irritation**Skin irritation polyethylene glycol > 600:  
rabbit: not irritating; OECD Test Guideline 404**Serious eye damage/eye irritation**Eye irritation polyethylene glycol > 600:  
rabbit: not irritating; OECD Test Guideline 405**Respiratory or skin sensitization**Sensitisation polyethylene glycol > 600:  
Buehler Test guinea pig: not sensitizing; OECD Test Guideline 406**Germ cell mutagenicity**Genotoxicity in vitro polyethylene glycol > 600:  
Ames test: not mutagenic; OECD Test Guideline 471



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Carcinogenicity  
Reproductive toxicity  
STOT - single exposure  
STOT - repeated exposure  
Aspiration hazard  
Further information

**12. ECOLOGICAL INFORMATION****12.1 Toxicity**

Toxicity to fish	polyethylene glycol > 600: LC50 Cyprinus carpio: > 100 mg/l; 96 h; OECD Test Guideline 203
Toxicity to daphnia	polyethylene glycol > 600: EC50 Daphnia magna: > 100 mg/l; 48 h; OECD Test Guideline 202
Toxicity to algae	polyethylene glycol > 600: EC50 Desmodesmus subspicatus (green algae): > 100 mg/l; 72 h; OECD Test Guideline 201

**12.2 Persistence and degradability**

Biodegradability	polyethylene glycol > 600: Readily biodegradable.; > 70 %; 21 d; OECD Test Guideline 301 A (new version)
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**12.3 Bioaccumulative potential****12.4 Mobility in soil****12.5 Results of PBT and vPvB assessment****12.6 Other adverse effects****13. DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

Product	Can be disposed of as a solid waste or burned in a suitable installation subject to 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.

**14. TRANSPORT INFORMATION****14.1 UN number**

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

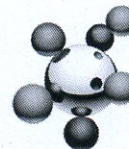
**14.2 Proper shipping name**

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

**14.4 Packing group**

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

**14.5 Environmental hazards**

ADR	Environmentally hazardous	no
RID	Environmentally hazardous	no
ADNR	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**

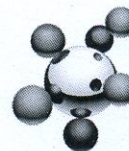
Remarks No information available.

**15. Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****NATIONAL/OTHER REGULATIONS**

Directive 96/82/EC on the control of major-accident hazards involving dangerous substances

list entry in the directive: Directive 96/82/EC does not apply



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**NOTIFICATION STATUS**

US. Toxic Substances Control Act	TSCA	y (positive listing)
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL). (Can. Gaz. Part II, Vol. 144)	DSL	y (positive listing)
Australia. Industrial Chemical (Notification and Assessment) Act	AICS	y (positive listing)
New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand	NZIOC	y (positive listing)
Japan. Kashin-Hou Law List	ENCS (JP)	y (positive listing)
Japan. Industrial Safety & Health Law (ISHL) List	ISHL (JP)	y (positive listing)
Korea. Existing Chemicals Inventory (KECI)	KECI (KR)	y (positive listing)
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	PICCS (PH)	y (positive listing)
China. Inventory of Existing Chemical Substances	INV (CN)	y (positive listing)
Switzerland. Consolidated Inventory	CH INV	y (positive listing)

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**

A Chemical Safety Assessment is not required for this substance.

**16. Other information****Safety datasheet sections which have been updated:**

1. Identification of the substance/mixture and of the company/undertaking
2. Hazards identification
3. Composition/information on ingredients
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.