

LIPOXOL 300

Version: 4.08

Revision Date 07.07.2016

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

1.1 Product identifier

| | |
|-------------------|--------------------|
| Trade name | LIPOXOL 300 |
|-------------------|--------------------|

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

| | |
|-----------------------------|---|
| Use | Industrial use raw material for washing and cleaning agents raw material for textile auxiliary agents |
| 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 address | msds-info.germany@de.sasol.com |

1.4 Emergency telephone number

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

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.

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.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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

CHEMICAL CHARACTERIZATION

LIPOXOL 300

Version: 4.08

Revision Date 07.07.2016

polyethylene glycol 200 - 600

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**

| | |
|--------------------------------|--|
| 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. |
|---|--------------------------------------|

SECTION 5: FIREFIGHTING MEASURES**5.1 Extinguishing media**

| | |
|-------------------------------------|--|
| Suitable extinguishing media | Water, Foam, Dry powder, Carbon dioxide (CO ₂) |
|-------------------------------------|--|

5.2 Special hazards arising from the substance or mixture

| | |
|---|---|
| Specific hazards during firefighting | Dangerous gases or fumes may occur in case of fire. |
|---|---|

5.3 Advice for firefighters

| | |
|--|---|
| Special protective equipment for firefighters | Wear self-contained breathing apparatus for firefighting if necessary. |
| Further information | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |

LIPOXOL 300

Version: 4.08

Revision Date 07.07.2016

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.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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

No data available

EUROPEAN OCCUPATIONAL EXPOSURE LIMITS

No data available

LIPOXOL 300

Version: 4.08

Revision Date 07.07.2016

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. |
| 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. |
|-----------------------|---|

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 | clear |
| Odour | mild |
| Odour Threshold | No data available |
| pH | 4 - 7; 100 g/l; 20 °C |
| Melting point/range | -20 - -10 °C |
| Boiling point/boiling range | > 250 °C; 1.013 hPa |
| Flash Point | ca. 220 °C; DIN ISO 2592 |
| Evaporation rate | No data available |
| Flammability (solid, gas) | not applicable (liquid) |

LIPOXOL 300

Version: 4.08

Revision Date 07.07.2016

| | |
|---|---|
| Lower explosion limit | No data available |
| Upper explosion limit | No data available |
| Vapour pressure | < 0,1 hPa; 20 °C |
| Relative vapour density | No data available |
| Density | ca.1,125 g/cm ³ ; 20 °C |
| Relative density | No data available |
| Water solubility | 20 °C; completely miscible |
| Partition coefficient: n-octanol/water | No data available |
| Ignition temperature | ca. 370 °C; DIN 51794 |
| Auto-ignition temperature | liquid with a flash point of > 200 °C |
| Viscosity, dynamic | 80 - 105 mPas; 20 °C(Höppler) |
| Explosive properties | not expected based on structure and functional groups |
| Oxidizing properties | No data available |

9.2 Other data

| | |
|--------------------------|---|
| 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

LIPOXOL 300

Version: 4.08

Revision Date 07.07.2016

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
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: not
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

LIPOXOL 300

Version: 4.08

Revision Date 07.07.2016

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

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; > 70 %; 21 d; aerobic; OECD Test Guideline 301A

LIPOXOL 300

Version: 4.08

Revision Date 07.07.2016

Category approach

12.3 Bioaccumulative potential

Bioaccumulation

polyethylene glycol 200 - 600:
Bioconcentration factor (BCF): 3,16; QSAR

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.

12.5 Results of PBT and vPvB assessment

Results of PBT assessment

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

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 |
|-----|---------------------|

LIPOXOL 300

Version: 4.08

Revision Date 07.07.2016

| | |
|-----------|---------------------|
| 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

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 |
|--|---|

LIPOXOL 300

Version: 4.08

Revision Date 07.07.2016

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 | 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:**

11. Toxicological information

1. Identification of the substance/mixture and of the company/undertaking

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.

LIPOXOL 300

Version: 4.08

Revision Date 07.07.2016

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 |