

**LIPOXOL 600 MED**

Version: 4.09

Revision Date 02.07.2019

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

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**1.1 Product identifier**

|                   |                        |
|-------------------|------------------------|
| <b>Trade name</b> | <b>LIPOXOL 600 MED</b> |
|-------------------|------------------------|

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

|                             |  |
|-----------------------------|--|
| <b>Use</b>                  | Industrial use<br>raw material for cosmetic agents<br>raw material for pharmaceutical products |
| <b>Uses advised against</b> |  |

**1.3 Details of the supplier of the safety data sheet**

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

**1.4 Emergency telephone number**

|                                   |                           |
|-----------------------------------|---------------------------|
| <b>Emergency telephone number</b> | + 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.  
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**

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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

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**SECTION 4: FIRST AID MEASURES**

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**4.1 Description of first aid measures**

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

**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.    |

**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**

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**5.1 Extinguishing media**

|                                     |  |
|-------------------------------------|--|
| <b>Suitable extinguishing media</b> | Water, Foam, Dry powder, Carbon dioxide (CO <sub>2</sub> ) |
|-------------------------------------|--|

**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. |
|---|---|

**5.3 Advice for firefighters**

|                                     |  |
|-------------------------------------|--|
| <b>Special protective equipment</b> | 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**

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**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**

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**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**

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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

**8.2 Exposure controls****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 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. |
| <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 aerosols are in use, or smoke and mist occur, use self-contained breathing apparatus or breathing apparatus with a combined filter (e.g. A-P2 or ABEK-P2), in compliance with EN 141.  |
| <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>       | General industrial hygiene practice.   |
| <b>Protective measures</b>    | No special protective equipment required.  |

**ENVIRONMENTAL EXPOSURE CONTROLS**

|                       |   |
|-----------------------|---|
| <b>General advice</b> | Avoid subsoil penetration.<br>Do not flush into surface water or sanitary sewer system. |
|-----------------------|---|

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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**9.1 Information on basic physical and chemical properties**

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|   |   |
|---|---|
| <b>Physical state</b>                         | liquid; 20 °C; 1.013 hPa                                |
| <b>Form</b>                                   | liquid  |
| <b>Colour</b>                                 | colourless  |
| <b>Odour</b>                                  | mild  |
| <b>Odour Threshold</b>                        | No data available                                       |
| <b>pH</b>                                     | 4,5 - 7,0; 100 g/l; 20 °C                               |
| <b>Melting point/range</b>                    | 15 - 25 °C  |
| <b>Flash point</b>                            | ca. 270 °C; DIN ISO 2592                                |
| <b>Evaporation rate</b>                       | No data available                                       |
| <b>Flammability (solid, gas)</b>              | not applicable (liquid)                                 |
| <b>Lower explosion limit</b>                  | No data available                                       |
| <b>Upper explosion limit</b>                  | No data available                                       |
| <b>Vapour pressure</b>                        | < 0,1 hPa   |
| <b>Relative vapour density</b>                | No data available                                       |
| <b>Density</b>                                | ca.1,126 g/cm <sup>3</sup>                              |
| <b>Relative density</b>                       | No data available                                       |
| <b>Water solubility</b>                       | completely miscible                                     |
| <b>Partition coefficient: n-octanol/water</b> | No data available                                       |
| <b>Ignition temperature</b>                   | ca. 380 °C; DIN 51794                                   |
| <b>Auto-ignition temperature</b>              | Not applicable<br>liquid with a flash point of > 200 °C |
| <b>Viscosity, dynamic</b>                     | 175 mPas; 20 °C   |
| <b>Explosive properties</b>                   | not expected based on structure and functional groups   |
| <b>Oxidizing properties</b>                   | No data available                                       |

**9.2 Other data**

|                          |   |
|--------------------------|---|
| <b>Additional advice</b> | no explosion limits under standard conditions |
|--------------------------|---|

**SECTION 10: STABILITY AND REACTIVITY**

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**10.1 Reactivity**

|             |   |
|-------------|---|
| <b>Note</b> | Stable at normal ambient temperature and pressure.<br>No decomposition if stored and applied as directed. |
|-------------|---|

**10.2 Chemical stability**

|             |                                      |
|-------------|--------------------------------------|
| <b>Note</b> | No decomposition if stored normally. |
|-------------|--------------------------------------|

**10.3 Possibility of hazardous reactions**

|                            |             |
|----------------------------|-------------|
| <b>Hazardous reactions</b> | None known. |
|----------------------------|-------------|

**10.4 Conditions to avoid**

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**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  
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.

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### 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

## 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;

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|   |  |
|---|--|
|   | OECD Test Guideline 201; Category approach   |
| <b>Toxicity to bacteria</b>                               | polyethylene glycol 200 - 600:<br>EC50 Pseudomonas putida: > 10.000 mg/l; Cell multiplication inhibition test; DIN 38 412 Part 8<br>Category approach  |
| <b>Toxicity to soil dwelling organisms</b>                | polyethylene glycol 200 - 600:<br>No data available  |
| <b>Toxicity to terrestrial flora</b>                      | polyethylene glycol 200 - 600:<br>No data available  |
| <b>Toxicity for other terrestrial non-mammalian fauna</b> | polyethylene glycol 200 - 600:<br>No data available  |
| <b>12.2 Persistence and degradability</b>                 |  |
| <b>Biodegradability</b>                                   | polyethylene glycol 200 - 600:<br>Readily biodegradable.; > 60 %; 28 d; aerobic; OECD Test Guideline 301B<br>Category approach<br>(literature value)<br><br>polyethylene glycol 200 - 600:<br>Biodegradable in sea water; > 60 %; 28 d; marine test; ISO DIS 9439<br>Category approach<br>(literature value) |
| <b>12.3 Bioaccumulative potential</b>                     |  |
| <b>Bioaccumulation</b>                                    | polyethylene glycol 200 - 600:<br>Bioconcentration factor (BCF): 3,16; QSAR  |
| <b>12.4 Mobility in soil</b>                              |  |
| <b>Mobility</b>   | polyethylene glycol 200 - 600:<br>Adsorption/Soil; Koc: 10; QSAR<br>Not expected to adsorb on soil.<br>The substance and its relevant degradation products decompose rapidly.  |
| <b>12.5 Results of PBT and vPvB assessment</b>            |  |
| <b>Results of PBT assessment</b>                          | 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.   |
| <b>Results of PBT assessment</b>                          | polyethylene glycol 200 - 600:<br>This substance is not considered to be persistent, bioaccumulating and toxic (PBT).<br>This substance is not considered to be very persistent and very bioaccumulating (vPvB).   |
| <b>12.6 Other adverse effects</b>                         |  |
| <b>General advice</b>                                     | polyethylene glycol 200 - 600:<br>None known.  |

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

|  |  |
|--|--|
| <b>Product</b>                               | Can be incinerated, when in compliance with 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 |



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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**

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

##### 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:

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### 12. Ecological 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.

#### 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   |