

**MARLIPAL O 13/1385**

Version: 1.04

Revision Date 2012/04/16

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

Trade name **MARLIPAL O 13/1385**

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

Use industrial use  
raw material for cleaning agents and disinfectants

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

**SECTION 2: HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Acute toxicity Category 4 (Oral) Harmful if swallowed.  
Serious eye damage Category 1 Causes serious eye damage.

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

Harmful Harmful if swallowed.  
Irritant Risk of serious damage to eyes.

**2.2 Label elements****Labelling (REGULATION (EC) No 1272/2008)****Hazard pictograms**

Signal word **Danger**



## MARLIPAL O 13/1385

Version: 1.04

Revision Date 2012/04/16

### Hazard statements

H302 Harmful if swallowed.  
 H318 Causes serious eye damage.

### Precautionary statements

P264 Wash face, hands and any exposed skin thoroughly after handling.  
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
 P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310 Immediately call a POISON CENTER or doctor/ physician.  
 P330 Rinse mouth.

### 2.3 Other hazards

Danger of slipping after spill or leakage.  
 Forms slippery/greasy layers with water.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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

### 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

#### isotridecanol, ethoxylated (>7 - <15 EO)

content: 85 %

component type: Active ingredient

EC-No.: 931-138-8

Index-No.:

CAS-No.: 69011-36-5

REACH No.: Not relevant (polymer)

Substance name (REACH / CLP): Isotridecanol, ethoxylated (CAS#: 69011-36-5)

**Classification (Directive  
 67/548/EEC):**
Xn  
XiR22;  
R41;
**Classification (Regulation  
 (EC) No 1272/2008):**
Acute Tox. 4 (Oral)  
Eye Dam. 1H302  
H318

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### Other data

Synonyms: isotridecanol, ethoxylated; CAS-No.: 9043-30-5

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

#### General advice

If you feel unwell, seek medical advice (show the label where possible). Take off all contaminated clothing immediately.

#### 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 immediately with plenty of water. Consult a physician if necessary.

**MARLIPAL O 13/1385**

Version: 1.04

Revision Date 2012/04/16

---

<b>In case of eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
<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.
--	---

**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.
---	--------------------------------------

**SECTION 5: FIREFIGHTING MEASURES**

---

**5.1 Extinguishing media**

<b>Suitable extinguishing media</b>	Water spray, Dry powder, Foam, 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 for firefighters</b>	Wear self contained breathing apparatus for fire fighting if necessary.
<b>Further information</b>	Standard procedure for chemical fires.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

---

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

<b>Personal precautions</b>	Use personal protective equipment.
-----------------------------	------------------------------------

**6.2 Environmental precautions**

<b>Environmental precautions</b>	Avoid subsoil penetration. Do not flush into surface water or sanitary sewer system.
----------------------------------	---

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

<b>Methods for cleaning up</b>	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). The material taken up must be disposed of in accordance with regulations.
--------------------------------	--

**6.4 Reference to other sections**

For personal protection see section 8.



## MARLIPAL O 13/1385

Version: 1.04

Revision Date 2012/04/16

### SECTION 7: HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

<b>Advice on safe handling</b>	Wear personal protective equipment. Avoid contact with skin and eyes.
<b>Advice on protection against fire and explosion</b>	Normal measures for preventive fire protection. Do not spray on a naked flame or any incandescent material.
<b>Fire-fighting class</b>	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

<b>Requirements for storage areas and containers</b>	Keep tightly closed in a dry and cool place.
<b>Storage class (TRGS 510)</b>	10-13: German Storage Class 10 to 13
<b>Other data</b>	Stable at normal ambient temperature and pressure.

#### 7.3 Specific end uses

<b>Specific use(s)</b>	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

#### 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>Hand protection</b>	The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other., Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time., Be aware that in daily use the durability of a chemical resistant protective glove can be notably shorter than the break through time measured according to EN 374, due to the numerous outside influences (e.g. temperature).

**MARLIPAL O 13/1385**

Version: 1.04

Revision Date 2012/04/16

**gloves suitable for permanent contact:**

Material: butyl-rubber  
Break through time:  $\geq$  480 min  
Material thickness:  $\geq$  0.7 mm

**gloves suitable for splash protection:**

Material: Nitrile rubber/nitrile latex  
Break through time:  $\geq$  30 min  
Material thickness:  $\geq$  0.4 mm

<b>Eye protection</b>	Tightly fitting safety goggles, Safety glasses with side-shields
<b>Skin and body protection</b>	Protective suit
<b>Hygiene measures</b>	Avoid contact with the skin and the eyes. Handle in accordance with good industrial hygiene and safety practice for diagnostics. Keep away from food, drink and animal feedingstuffs. When using do not eat, drink or smoke.
<b>Protective measures</b>	Avoid contact with the skin and the eyes. Wear suitable gloves and eye/face protection.

**ENVIRONMENTAL EXPOSURE CONTROLS**

<b>General advice</b>	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**

<b>Physical state</b>	liquid; 20 °C; 1,013 hPa
<b>Form</b>	liquid
<b>Colour</b>	clear
<b>Odour</b>	mild
<b>Odour Threshold</b>	no data available
<b>pH</b>	5 - 7; 20 g/l; 22 °C
<b>cloud point</b>	73 - 76 °C
<b>Boiling point/boiling range</b>	no data available
<b>Flash point</b>	> 100 °C
<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>	no data available
<b>Relative vapour density</b>	no data available
<b>Density</b>	ca.1.04 g/cm <sup>3</sup> ; 20 °C

**MARLIPAL O 13/1385**

Version: 1.04

Revision Date 2012/04/16

---

<b>Relative density</b>	no data available
<b>Bulk density</b>	not applicable
<b>Water solubility</b>	partly miscible
<b>Partition coefficient: n-octanol/water</b>	Not relevant / not applicable Justification: surface-active substance
<b>Ignition temperature</b>	no data available
<b>Autoignition temperature</b>	no data available
<b>Viscosity, dynamic</b>	no data available
<b>Explosive properties</b>	Constituents do not contain chemical groups associated with explosivity.
<b>Oxidizing properties</b>	not expected based on structure and functional groups

**9.2 Other data**

None known.

**SECTION 10: STABILITY AND REACTIVITY**

---

**10.1 Reactivity**

**Note** Stable at normal ambient temperature and pressure.

**10.2 Chemical stability**

**Note** No decomposition if stored and applied as directed.

**10.3 Possibility of hazardous reactions**

**Hazardous reactions** None known.

**10.4 Conditions to avoid**

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

**10.5 Incompatible materials to avoid**

**Materials to avoid** Strong acids and oxidizing agents;

**10.6 Hazardous decomposition products**

**Hazardous decomposition products** No decomposition if stored normally.

**Thermal decomposition** Hazardous decomposition products formed under fire conditions.

**SECTION 11: TOXICOLOGICAL INFORMATION**

---

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

**Acute oral toxicity** isotridecanol, ethoxylated (>7 - <15 EO):  
LD50 rat: > 300 - 2,000 mg/kg  
Category approach  
own test results/literature values



## MARLIPAL O 13/1385

Version: 1.04

Revision Date 2012/04/16

	Harmful if swallowed.
<b>Acute inhalation toxicity</b>	isotridecanol, ethoxylated (>7 - <15 EO): no data available
<b>Acute dermal toxicity</b>	isotridecanol, ethoxylated (>7 - <15 EO): LD50 rabbit: > 2,000 mg/kg; Category approach (literature value) Based on available data, the classification criteria are not met.
<b>Skin corrosion/irritation</b>	
<b>Skin irritation</b>	isotridecanol, ethoxylated (>7 - <15 EO): rabbit: not irritating Category approach own test results/literature values Based on available data, the classification criteria are not met.
<b>Serious eye damage/eye irritation</b>	
<b>Eye irritation</b>	isotridecanol, ethoxylated (>7 - <15 EO): rabbit: May cause irreversible eye damage. own test results/literature values Category approach Causes serious eye damage.
<b>Respiratory or skin sensitization</b>	
<b>Sensitisation</b>	isotridecanol, ethoxylated (>7 - <15 EO): Maximisation Test guinea pig: not sensitizing Category approach (literature value) Based on available data, the classification criteria are not met.
<b>Germ cell mutagenicity</b>	
<b>Genotoxicity in vitro</b>	isotridecanol, ethoxylated (>7 - <15 EO): In vitro tests did not show mutagenic effects Category approach own test results/literature values
<b>Genotoxicity in vivo</b>	isotridecanol, ethoxylated (>7 - <15 EO): In vivo tests did not show mutagenic effects Category approach (literature value)
<b>Remarks</b>	isotridecanol, ethoxylated (>7 - <15 EO): Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>	
<b>Carcinogenicity</b>	isotridecanol, ethoxylated (>7 - <15 EO): The substance has been shown to be not genotoxic, therefore it is not expected to have a carcinogenic potential. Category approach (literature value)
<b>Remarks</b>	isotridecanol, ethoxylated (>7 - <15 EO): Based on available data, the classification criteria are not met.
<b>Reproductive toxicity</b>	
<b>Reproductive toxicity</b>	isotridecanol, ethoxylated (>7 - <15 EO): Two-generation reproductive toxicity: rat NOAEL ((parents)): > 250 mg/kg (based on body weight and day) NOAEL (F1): > 250 mg/kg (based on body weight and day) NOAEL (F2): > 250 mg/kg (based on body weight and day) Category approach



## MARLIPAL O 13/1385

Version: 1.04

Revision Date 2012/04/16

	(literature value)
<b>RemarksReproductive toxicity</b>	isotridecanol, ethoxylated (>7 - <15 EO): Based on available data, the classification criteria are not met.
<b>Teratogenicity</b>	isotridecanol, ethoxylated (>7 - <15 EO): rat; Oral NOAEL: > 50 mg/kg (based on body weight and day) NOAEL (dam): 50 mg/kg (based on body weight and day); Two-generation reproductive toxicity Category approach (literature value)
	isotridecanol, ethoxylated (>7 - <15 EO): rat; Dermal NOAEL: > 250 mg/kg (based on body weight and day) NOAEL (dam): 250 mg/kg (based on body weight and day); Two-generation reproductive toxicity Category approach (literature value)
<b>Remarks-Teratogenicity</b>	isotridecanol, ethoxylated (>7 - <15 EO): Based on available data, the classification criteria are not met.
<b>STOT - single exposure</b>	
<b>Remarks</b>	isotridecanol, ethoxylated (>7 - <15 EO): The substance or mixture is not classified as specific target organ toxicant, single exposure.
<b>STOT - repeated exposure</b>	
<b>Remarks</b>	isotridecanol, ethoxylated (>7 - <15 EO): The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
<b>Repeated dose toxicity</b>	isotridecanol, ethoxylated (>7 - <15 EO): rat; Oral; 2 years NOAEL: 50 mg/kg (based on body weight and day) Target Organs: Heart, Liver, Kidney Symptoms: reduced body weight gain, increased relative organ weights Category approach (literature value)
<b>Aspiration hazard</b>	
<b>Aspiration toxicity</b>	isotridecanol, ethoxylated (>7 - <15 EO): not applicable
<b>Toxicological information</b>	isotridecanol, ethoxylated (>7 - <15 EO): Toxicokinetics Category approach The substance is expected to be rapidly absorbed and excreted. (literature value)

### SECTION 12: ECOLOGICAL INFORMATION

#### 12.1 Toxicity

<b>Toxicity to fish</b>	isotridecanol, ethoxylated (>7 - <15 EO): LC50 (96 h) Cyprinus carpio (Carp): > 1 - 10 mg/l; flow-through test; OECD Test Guideline 203 own test results/literature values
-------------------------	--





## MARLIPAL O 13/1385

Version: 1.04

Revision Date 2012/04/16

	Category approach
<b>Toxicity to fish - Chronic toxicity</b>	isotridecanol, ethoxylated (>7 - <15 EO): no data available
<b>Toxicity to daphnia and other aquatic invertebrates</b>	isotridecanol, ethoxylated (>7 - <15 EO): EC50 (48 h) Daphnia magna (Water flea): > 1 - 10 mg/l; static test; OECD Test Guideline 202 own test results/literature values Category approach
<b>Toxicity to daphnia and other aquatic invertebrates - Chronic toxicity</b>	isotridecanol, ethoxylated (>7 - <15 EO): no data available
<b>Toxicity to aquatic plants</b>	isotridecanol, ethoxylated (>7 - <15 EO): EC50 (72 h) Desmodesmus subspicatus (green algae): > 1 - 10 mg/l; static test; OECD Test Guideline 201; own test results/literature values Category approach
<b>Toxicity to bacteria</b>	isotridecanol, ethoxylated (>7 - <15 EO): EC50 activated sludge: 140 mg/l; Respiration inhibition Category approach (literature value)
<b>Toxicity to terrestrial flora</b>	isotridecanol, ethoxylated (>7 - <15 EO): emergence, growth; NOEC: 10 mg/kg; Lepidium sativum (cress); OECD Test Guideline 208 own test results/literature values Category approach
<b>Toxicity for other terrestrial non-mammalian fauna</b>	isotridecanol, ethoxylated (>7 - <15 EO): study scientifically unjustified Justification: Readily biodegradable.
<b>12.2 Persistence and degradability</b>	
<b>Biodegradability</b>	isotridecanol, ethoxylated (>7 - <15 EO): Readily biodegradable.; > 60 %; 28 d; aerobic; OECD Test Guideline 301 B own test results/literature values Category approach
<b>12.3 Bioaccumulative potential</b>	
<b>Bioaccumulation</b>	isotridecanol, ethoxylated (>7 - <15 EO): Bioaccumulation is unlikely. (literature value)
<b>12.4 Mobility in soil</b>	
<b>Mobility</b>	isotridecanol, ethoxylated (>7 - <15 EO): Koc: > 5000 immobile strong adsorption to soil (literature value)
<b>12.5 Results of PBT and vPvB assessment</b>	
<b>Results of PBT assessment</b>	isotridecanol, ethoxylated (>7 - <15 EO): Based on available data, the classification criteria are not met.
<b>12.6 Other adverse effects</b>	
<b>General advice</b>	isotridecanol, ethoxylated (>7 - <15 EO): None known.



## MARLIPAL O 13/1385

Version: 1.04

Revision Date 2012/04/16

### 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 agreement with the regional waste disposal authority or company.

### SECTION 14: TRANSPORT INFORMATION

#### 14.1 UN number

<b>ADR</b>	Not dangerous goods
<b>RID</b>	Not dangerous goods
<b>ADN</b>	Not dangerous goods
<b>IMDG</b>	Not dangerous goods
<b>ICAO/IATA</b>	Not dangerous goods

#### 14.2 Proper shipping name

<b>ADR</b>	Not dangerous goods
<b>RID</b>	Not dangerous goods
<b>ADN</b>	Not dangerous goods
<b>IMDG</b>	Not dangerous goods
<b>ICAO/IATA</b>	Not dangerous goods

#### 14.3 Transport hazard class

<b>ADR</b>	Not dangerous goods
<b>RID</b>	Not dangerous goods
<b>ADN</b>	Not dangerous goods
<b>IMDG</b>	Not dangerous goods
<b>ICAO/IATA</b>	Not dangerous goods

#### 14.4 Packing group

<b>ADR</b>	Not dangerous goods
<b>RID</b>	Not dangerous goods
<b>ADN</b>	Not dangerous goods
<b>IMDG</b>	Not dangerous goods
<b>ICAO/IATA</b>	Not dangerous goods

#### 14.5 Environmental hazards

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

#### 14.6 Special precautions for user



## MARLIPAL O 13/1385

Version: 1.04

Revision Date 2012/04/16

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

**Occupational restrictions** Employment restrictions for children and young workers in accordance with Directive 94/33/EC and the respective national provisions are to be observed.

**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

**Other regulations** The surfactant(s) contained in this preparation complies (comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

#### 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 (exempted from obligation to register).



## MARLIPAL O 13/1385

Version: 1.04

Revision Date 2012/04/16

### SECTION 16: OTHER INFORMATION

#### Text of R-phrases mentioned in Section 3

R22	Harmful if swallowed.
R41	Risk of serious damage to eyes.

#### Full text of H-Statements referred to under sections 2 and 3.

H302	Harmful if swallowed.
H318	Causes serious eye damage.

#### 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.

#### 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



## MARLIPAL O 13/1385

Version: 1.04

Revision Date 2012/04/16

---

WGK

Wassergefährdungsklasse