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

1.1 Product identifier

Trade name MARLIPAL O 13/40

INCI Trideceth-4

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

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 washing and cleaning agents raw material for textile auxiliary agents

emulsifying agent

surface-active substance

Uses advised against

1.3 Details of the supplier of the safety data sheet

Company SASOL Germany GmbH

Anckelmannsplatz 1 20537 Hamburg Germany

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)

Eye irritation Category 2 Causes serious eye irritation.

Long-term (chronic) aquatic hazard Category 3 Harmful to aquatic life with long lasting effects.

### 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)



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#### **Hazard pictograms**



Signal word Warning

**Hazard statements** 

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements** 

P264 Wash skin thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear eye protection/ face protection.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

P501 Dispose of contents/ container to an approved waste disposal plant.

### Hazardous components which must be listed on the label:

• Isotridecanol, ethoxylated (CAS#: 69011-36-5)

#### 2.3 Other hazards

Danger of slipping after spill or leakage.

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

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

#### **CHEMICAL CHARACTERIZATION**

isotridecanol, ethoxylated (>=2.5 EO)

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)

## 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 (>=2.5 EO)

content: >= 90 - <= 100 % 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 (Regulation (EC) No 1272/2008): Eye Irrit. 2 H319

Aquatic Chronic 3 H412



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

#### **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.

In case of eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a

physician.

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

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

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** Standard procedure for chemical fires.

### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions Use personal protective equipment.

6.2 Environmental precautions

**Environmental precautions** Avoid subsoil penetration.

Do not flush into surface water or sanitary sewer system.



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6.3 Methods and materials for containment and cleaning up

Methods for cleaning up 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.

### **SECTION 7: HANDLING AND STORAGE**

7.1 Precautions for safe handling

Advice on safe handling Wear personal protective equipment.

Avoid contact with skin and eyes.

Advice on protection against

fire and explosion Fire-fighting class Normal measures for preventive fire protection.

Do not spray on a naked flame or any incandescent material.

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 in a dry and cool place.

Other data Stable at normal ambient temperature and pressure.

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

### **DERIVED NO EFFECT LEVEL (DNEL)**

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

No data available



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#### PREDICTED NO EFFECT CONCENTRATION (PNEC)

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

No data available

#### 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 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).

gloves suitable for permanent contact:

Material: butyl-rubber

Break through time: >= 480 min Layer thickness: >= 0.7 mm

gloves suitable for splash protection:

Material: Nitrile rubber/nitrile latex Break through time: >= 30 min Layer thickness: >= 0.4 mm

**Eye protection** Tightly fitting safety goggles, Safety glasses with side-shields

**Skin and body protection** Wear suitable protective equipment.

Hygiene measures Avoid contact with the skin and the eyes. Handle in accordance with good

industrial hygiene and safety practice. Keep away from food, drink and animal

feedingstuffs. When using do not eat, drink or smoke.

**Protective measures** Avoid contact with the skin and the eyes. Wear suitable gloves and eye/face

protection.

#### **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



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Physical state liquid; 20 °C; 1,013 hPa

Form liquid
Colour cloudy
Odour mild

Odour Threshold No valid method available.

**pH** 5 - 7; 20 g/l; 20 °C

Melting point/range < -10 °C

Boiling point/boiling range Not applicable

Flash point ca. 175 °C; DIN 51376

Evaporation rate No data available

Flammability (solid, gas) not applicable (liquid)

Lower explosion limit No data available No data available **Upper explosion limit** Vapour pressure < 0.1 hPa; 20 °C Relative vapour density No data available **Density** ca.0.92 g/cm3; 50 °C Water solubility 20 °C; practically insoluble Partition coefficient: n-Not relevant / Not applicable octanol/water Justification: surface-active substance

**Ignition temperature** ca. 340 °C; DIN 51794

Auto-ignition temperature not auto-flammable

Viscosity, dynamic ca. 18 mPas; 50 °C; Brookfield method

**Explosive properties**Constituents do not contain chemical groups associated with explosivity.

Oxidizing properties 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.



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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 and applied as directed.

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 (>=2.5 EO):

LD50 Rat: > 5,000 mg/kg; OECD Test Guideline 401

own test results/literature values

Category approach

Based on available data, the classification criteria are not met.

Acute inhalation toxicity isotridecanol, ethoxylated (>=2.5 EO):

No data available

Acute dermal toxicity isotridecanol, ethoxylated (>=2.5 EO):

LD50 : > 2,000 mg/kg; (literature value) Category approach

Based on available data, the classification criteria are not met.

Skin corrosion/irritation

**Skin irritation** isotridecanol, ethoxylated (>=2.5 EO):

Rabbit: not irritating

own test results/literature values

Category approach

Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation

**Eye irritation** isotridecanol, ethoxylated (>=2.5 EO):

Rabbit: Eye irritation

own test results/literature values

Category approach

Causes serious eye irritation.

Respiratory or skin sensitisation

**Sensitisation** isotridecanol, ethoxylated (>=2.5 EO):

Maximisation Test Guinea pig: not sensitizing

(literature value) Category approach

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

**Genotoxicity in vitro** isotridecanol, ethoxylated (>=2.5 EO):

In vitro tests did not show mutagenic effects

own test results/literature values

Category approach

**Genotoxicity in vivo** isotridecanol, ethoxylated (>=2.5 EO):

In vivo tests did not show mutagenic effects



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(literature value)

Category approach

**Remarks** isotridecanol, ethoxylated (>=2.5 EO):

Based on available data, the classification criteria are not met.

Carcinogenicity

**Carcinogenicity** isotridecanol, ethoxylated (>=2.5 EO):

The substance has been shown to be not genotoxic, therefore it is not expected to

have a carcinogenic potential.

(literature value)
Category approach

**Remarks** isotridecanol, ethoxylated (>=2.5 EO):

Based on available data, the classification criteria are not met.

Reproductive toxicity

**Reproductive toxicity** isotridecanol, ethoxylated (>=2.5 EO):

Animal testing did not show any effects on fertility.

(literature value) Category approach

RemarksReproductive

toxicity

isotridecanol, ethoxylated (>=2.5 EO):

Based on available data, the classification criteria are not met.

**Teratogenicity** isotridecanol, ethoxylated (>=2.5 EO):

Did not show teratogenic effects in animal experiments.

(literature value) Category approach

Remarks-Teratogenicity isotridecanol, ethoxylated (>=2.5 EO):

Based on available data, the classification criteria are not met.

STOT - single exposure

**Remarks** isotridecanol, ethoxylated (>=2.5 EO):

The substance or mixture is not classified as specific target organ toxicant, single

exposure.

STOT - repeated exposure

**Remarks** isotridecanol, ethoxylated (>=2.5 EO):

The substance or mixture is not classified as specific target organ toxicant,

repeated exposure.

**Repeated dose toxicity** isotridecanol, ethoxylated (>=2.5 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

(literature value) Category approach

**Aspiration hazard** 

**Aspiration toxicity** isotridecanol, ethoxylated (>=2.5 EO):

Not applicable

**Toxicological information** isotridecanol, ethoxylated (>=2.5 EO):

Toxicokinetics

The substance is expected to be rapidly absorbed and excreted.

(literature value) Category approach



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#### **SECTION 12: ECOLOGICAL INFORMATION**

12.1 Toxicity

Toxicity to fish isotridecanol, ethoxylated (>=2.5 EO):

LC50 (96 h) Cyprinus carpio (Carp): > 1 - 10 mg/l; flow-through test; OECD Test

Guideline 203 Category approach

own test results/literature values

Toxicity to fish - Chronic

isotridecanol, ethoxylated (>=2.5 EO):

toxicity

NOEC: 1.73 mg/l; QSAR

Category approach (literature value)

Toxicity to daphnia and other

aquatic invertebrates

isotridecanol, ethoxylated (>=2.5 EO):

EC50 (48 h) Daphnia magna (Water flea): > 1 - 10 mg/l; static test; OECD Test

Guideline 202 Category approach

own test results/literature values

Toxicity to daphnia and other

aquatic invertebrates - Chronic

isotridecanol, ethoxylated (>=2.5 EO):

NOEC (21 d) Daphnia magna (Water flea): 1.36 mg/l; QSAR

toxicity

Toxicity to aquatic plants

Category approach (literature value)

isotridecanol, ethoxylated (>=2.5 EO): EC50 (72 h) Desmodesmus subspicatus (green algae): > 1 - 10 mg/l; static test;

OECD Test Guideline 201; Category approach

own test results/literature values

isotridecanol, ethoxylated (>=2.5 EO):

EC10 (72 h) Desmodesmus subspicatus (green algae): 0.6 mg/l; static test; OECD

Test Guideline 201; Category approach own test results/literature values

Toxicity to bacteria isotridecanol, ethoxylated (>=2.5 EO):

EC50 activated sludge: 140 mg/l; Respiration inhibition

Category approach (literature value)

Toxicity to soil dwelling

organisms

isotridecanol, ethoxylated (>=2.5 EO):

NOEC Eisenia foetida: 220 mg/kg; reproduction rate; artificial soil

Category approach (literature value)

Toxicity to terrestrial flora

isotridecanol, ethoxylated (>=2.5 EO): emergence, growth; NOEC: 10 mg/kg; Lepidium sativum (cress); OECD Test

Guideline 208 Category approach

own test results/literature values

Toxicity for other terrestrial non-mammalian fauna

isotridecanol, ethoxylated (>=2.5 EO):

No data available

12.2 Persistence and degradability

Biodegradability isotridecanol, ethoxylated (>=2.5 EO):

Readily biodegradable.; > 60 %; 28 d; aerobic; OECD Test Guideline 301B

Category approach

own test results/literature values

isotridecanol, ethoxylated (>=2.5 EO):

Biodegradable; > 60 %; 60 d; anaerobic; OECD 311 or equivalent test method

Category approach

own test results/literature values

#### 12.3 Bioaccumulative potential



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**Bioaccumulation** isotridecanol, ethoxylated (>=2.5 EO):

Bioaccumulation is unlikely.

(literature value)

12.4 Mobility in soil

**Mobility** isotridecanol, ethoxylated (>=2.5 EO):

Adsorption/Soil; Koc: > 5000; QSAR

(literature value)

strong adsorption to soil

immobile

12.5 Results of PBT and vPvB assessment

Results of PBT assessment 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.

**Results of PBT assessment** isotridecanol, ethoxylated (>=2.5 EO):

This substance is not considered to be persistent, bioaccumulating and toxic

(PBT).

This substance is not considered to be very persistent and very bioaccumulating

(vPvB).

12.6 Other adverse effects

**General advice** isotridecanol, ethoxylated (>=2.5 EO):

Harmful to aquatic life with long lasting effects.

### **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



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#### 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 ΔDN 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

### 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

Ship type Pollution category

Remarks MARPOL NAME: Alcohol (C12-C16) poly(1-6) ethoxylates

### **SECTION 15: REGULATORY INFORMATION**

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

**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.

### 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

Other regulations This surfactant complies 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.



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#### **NOTIFICATION STATUS**

Switzerland. Consolidated Inventory (based on EU-EINECS and EU-NLP)	CH INV	listed (product or constituents are listed)
Canadian Domestic Substances List (DSL)	DSL	listed (product or constituents are listed)
Australia Inventory of Chemical Substances (AICS)	AICS	listed (product or constituents are listed)
Japan. ENCS - Existing and New Chemical Substances Inventory	ENCS (JP)	listed (product or constituents are listed)
Japan. ISHL - Inventory of Chemical Substances	ISHL (JP)	listed (product or constituents are listed)
Korea. Korean Existing Chemicals Inventory (KECI)	KECI (KR)	listed (product or constituents are listed)
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	PICCS (PH)	listed (product or constituents are listed)
China. Inventory of Existing Chemical Substances in China (IECSC)	IECSC	listed (product or constituents are listed)
Taiwan Chemical Substance Inventory (TCSI)	TCSI	listed (product or constituents are listed)
United States TSCA Inventory	TSCA	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

### Isotridecanol, ethoxylated (CAS#: 69011-36-5)

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

### **SECTION 16: OTHER INFORMATION**

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

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

### Safety datasheet sections which have been updated:

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.



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> 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

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 FC

Effect concentration ... % Existing Notified Chemical Substances (Japan) ENCS

European Waste Catalogue EWC

IATA International Air Transport Association IBC Intermediate Bulk Container ICAO International Civil Aviation Organization International Maritime Dangerous Goods IMDG 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

Lethal Concentration, ...% LC...

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

persistent, bioaccumulative, toxic PBT

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 Toxic Substances Control Act **TSCA** very persistent, very bioaccumulative vPvB WGK Wassergefährdungsklasse