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

1.1 Product identifier	
Trade name	SLOVASOL 114
Substance name (REACH / CLP)	Undecanol, branched and linear, ethoxylated (>= 2.5 EO)(CAS 127036-24-2)
1.2 Relevant identified uses of the substa	ance or mixture and uses advised against
Use	Industrial use
Uses advised against	
1.3 Details of the supplier of the safety d	ata sheet
Company	Sloveca, Sasol Slovakia, spol. s r.o. Mostová 2 811 02 Bratislava Slovak Republic
	Telephone: +421 2 54430219 Telefax: +421 2 54430315
Information (Product safety):	Telephone: +421 46 546 1204 Telefax: +421 46 546 1144
E-mail address	msds-info.italy@it.sasol.com
1.4 Emergency telephone number	
Emergency telephone number	+421 902 899981; +421 25 477 4166 National Toxicological Information Centre (24 hours)

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.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Warning

Signal word

Hazard statements H319

Causes serious eye irritation.



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Precautionary statements P264	Wash skin thoroughly after handling.
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.

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.

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

Undecanol, branched and linear, ethoxylated (>= 2.5 EO)

content: >= 90 - <= 100 %

component type: Active ingredient

 EC-No.: 603-182-5
 Index-No.:
 CAS-No.: 127036-24-2

 REACH No.: Not relevant (polymer)
 Substance name (REACH / CLP): Undecanol, branched and linear, ethoxylated (>= 2.5 EO)(CAS : 127036-24-2)

 Classification (Regulation (Regulation Eye Irrit. 2
 H319

 (EC) No 1272/2008):
 H319

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

Other data

Description synonyme: Undecan-1-ol, ethoxylated; CAS-No.: 34398-01-1

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 Symptoms: No information available.



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effects, both acute and delayed 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

SECTION 5: FIREFIGHTING MEASURES

5.1	Extinguishing	media
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Suitable extinguishing media	Water spray, Dry powder, Foam, Carbon dioxide (CO2)
5.2 Special hazards arising from the su	ibstance 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.	
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	Normal measures for preventive fire protection. Do not spray on a naked flame or any incandescent material.



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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	Keep tightly closed in a dry and cool place.	
Storage class (TRGS 510)	10-13: German Storage Class 10 to 13	
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: Undecanol, branched and linear, ethoxylated (>= 2.5 EO)(CAS : 127036-24-2) No data available

PREDICTED NO EFFECT CONCENTRATION (PNEC)

Substance name: Undecanol, branched and linear, ethoxylated (>= 2.5 EO)(CAS : 127036-24-2) No data available

8.2 Exposure controls

PERSONAL PROTECTIVE EQUIPMENT

Respiratory protection	No personal respiratory protective equipment normally required. In inadequate ventilated areas, where workplace limits are exceeded, where unpleasant odo 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 ABEK-P2), in compliance with EN 141.	ours ed
Hand protection	The choice of an appropriate glove does not only depend on its material but al on other quality features and is different from one producer to the other., Pleas observe the instructions regarding permeability and breakthrough time which a 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,	se are
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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

Physical state	liquid; 25 °C; 1.013 hPa
Form	Liquid
Colour	cloudy
Odour	characteristic
Odour Threshold	No valid method available
рН	5,5 - 7,5; 1 % active substance; 25 °C; STN EN 1262
Pour point	ca5 - 0 °C; 1,013 hPa; STN 65 6072
Boiling Point	No data available
Flash point	> 125 °C; 1.013 hPa; ASTM D 93
Evaporation rate	No data available
Flammability (solid, gas)	not applicable (liquid)
	N. 1.7
Lower explosion limit	No data available
Upper explosion limit	No data available



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Vapour pressure	< 0,015 hPa; 20 °C
Relative vapour density	> 1
Density	ca.0,940 g/cm3; 50 °C; 1,013 hPa; STN EN ISO 12185
Relative density	No data available
Water solubility	100 g/l; 25 °C; 1.013 hPa; dispersible
Partition coefficient: n- octanol/water	Not applicable Justification: surface-active substance
Ignition temperature	No data available
Auto-ignition temperature	not auto-flammable
Viscosity, dynamic	ca. 29,0 mPas; 50 °C; STN EN ISO 3104
Viscosity, kinematic	ca. 30,8 mm2/s; 50 °C; (calculated)
Explosive properties	not expected based on structure and functional groups
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 reactio	ns
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 prod	ucts
Hazardous decomposition products	No decomposition if stored and applied as directed.
Thermal decomposition	Hazardous decomposition products formed under fire conditions.

SECTION 11: TOXICOLOGICAL INFORMATION

Undecanol, branched and linear, ethoxylated (>= 2.5 EO):

The data in this chapter are derived from the evaluations or test results achieved with similar products (conclusion by analogy).



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Test substance: Alcohols, C9-11, branched, ethoxylated

11.1 Information on toxicological effect	s	
Acute toxicity		
Acute oral toxicity	Undecanol, branched and linear, ethoxylated (>= 2.5 EO): LD50 Rat: > 2.000 - 5.000 mg/kg own test results/literature values Based on available data, the classification criteria are not met.	
Acute inhalation toxicity	Undecanol, branched and linear, ethoxylated (>= 2.5 EO): No data available	
Acute dermal toxicity	Undecanol, branched and linear, ethoxylated (>= 2.5 EO): LD50 Rat: > 2.000 mg/kg; own test results/literature values Based on available data, the classification criteria are not met.	
Skin corrosion/irritation		
Skin irritation	Undecanol, branched and linear, ethoxylated (>= 2.5 EO): Rabbit: not irritating own test results/literature values Based on available data, the classification criteria are not met.	
Serious eye damage/eye irritation	1	
Eye irritation	Undecanol, branched and linear, ethoxylated (>= 2.5 EO): Rabbit: Irritation to eyes, reversing within 7 days own test results/literature values Causes eye irritation.	
Respiratory or skin sensitisation		
Sensitisation	Undecanol, branched and linear, ethoxylated (>= 2.5 EO): Maximisation Test Guinea pig: not sensitizing own test results/literature values Based on available data, the classification criteria are not met.	
Germ cell mutagenicity		
Genotoxicity in vitro	Undecanol, branched and linear, ethoxylated (>= 2.5 EO): In vitro tests did not show mutagenic effects Category approach own test results/literature values	
Genotoxicity in vivo	Undecanol, branched and linear, ethoxylated (>= 2.5 EO): In vivo tests did not show mutagenic effects Category approach (literature value)	
Remarks	Undecanol, branched and linear, ethoxylated (>= 2.5 EO): Based on available data, the classification criteria are not met.	
Carcinogenicity		
Carcinogenicity	Undecanol, branched and linear, ethoxylated (>= 2.5 EO): The substance has been shown to be not genotoxic, therefore it is not exp have a carcinogenic potential. Category approach (literature value)	pected to
Remarks	Undecanol, branched and linear, ethoxylated (>= 2.5 EO): Based on available data, the classification criteria are not met.	
Reproductive toxicity		
Reproductive toxicity	Undecanol, branched and linear, ethoxylated (>= 2.5 EO): No toxicity to reproduction Category approach	
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	(literature value)
RemarksReproductive toxicity	Undecanol, branched and linear, ethoxylated (>= 2.5 EO): Based on available data, the classification criteria are not met.
Teratogenicity	Undecanol, branched and linear, ethoxylated (>= 2.5 EO): Did not show teratogenic effects in animal experiments. Category approach (literature value)
Remarks-Teratogenicity	Undecanol, branched and linear, ethoxylated (>= 2.5 EO): Based on available data, the classification criteria are not met.
STOT - single exposure	
Remarks	Undecanol, branched and linear, ethoxylated (>= 2.5 EO): The substance or mixture is not classified as specific target organ toxicant, single exposure.
STOT - repeated exposure	
Remarks	Undecanol, branched and linear, ethoxylated (>= 2.5 EO): The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Repeated dose toxicity	Undecanol, branched and linear, 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 Category approach (literature value)
Aspiration hazard	
Aspiration toxicity	Undecanol, branched and linear, ethoxylated (>= 2.5 EO): Not applicable
Toxicological information	Undecanol, branched and linear, ethoxylated (>= 2.5 EO): Toxicokinetics Category approach The substance is expected to be rapidly absorbed and excreted. (literature value)

SECTION 12: ECOLOGICAL INFORMATION

Undecanol, branched and linear, ethoxylated (>= 2.5 EO):

The data in this chapter are derived from the evaluations or test results achieved with similar products (conclusion by analogy).

Test substance: Alcohols, C9-11, branched, ethoxylated

12.1	Toxicity
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Toxicity to fish	Undecanol, branched and linear, ethoxylated (>= 2.5 EO): No data available
Toxicity to daphnia and other aquatic invertebrates	Undecanol, branched and linear, ethoxylated (>= 2.5 EO): No data available
Toxicity to aquatic plants	Undecanol, branched and linear, ethoxylated (>= 2.5 EO): EC10 (72 h) algae: > 10 - 100 mg/l ; OECD Test Guideline 201; (literature value) Category approach



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Toxicity to bacteria	Undecanol, branched and linear, ethoxylated (>= 2.5 EO): EC50 activated sludge: 140 mg/l; Respiration inhibition Category approach (literature value)
Toxicity to soil dwelling organisms	Undecanol, branched and linear, ethoxylated (>= 2.5 EO): NOEC Eisenia foetida: 220 mg/kg; reproduction rate; artificial soil Category approach (literature value)
Toxicity to terrestrial flora	Undecanol, branched and linear, ethoxylated (>= 2.5 EO): emergence, growth; NOEC: 10 mg/kg; Lepidium sativum (cress); OECD Test Guideline 208 own test results/literature values Category approach
Toxicity for other terrestrial non-mammalian fauna	Undecanol, branched and linear, ethoxylated (>= 2.5 EO): No data available
12.2 Persistence and degradability	
Biodegradability	Undecanol, branched and linear, ethoxylated (>= 2.5 EO): Readily biodegradable.; > 60 %; 28 d; aerobic; OECD Test Guideline 301B own test results/literature values Category approach
12.3 Bioaccumulative potential	
Bioaccumulation	Undecanol, branched and linear, ethoxylated (>= 2.5 EO): Bioaccumulation is unlikely. (literature value)
12.4 Mobility in soil	
Mobility	Undecanol, branched and linear, ethoxylated (>= 2.5 EO): Adsorption/Soil; Koc: 3069 - 3420; QSAR (literature value) low mobility in soils
12.5 Results of PBT and vPvB assess	ment
Results of PBT assessment	Undecanol, branched and linear, ethoxylated (>= 2.5 EO): Based on available data, the classification criteria are not met.
12.6 Other adverse effects	
General advice	Undecanol, branched and linear, ethoxylated (>= 2.5 EO): 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



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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 us		
Not classified as dangerous	s in the meaning of transport regulations.	
14.7 Transport in bulk accordin	g to Annex II of MARPOL 73/78 and the IBC	Code
Ship type	3	
Pollution category	Y	
Remarks	MARPOL NAME: Alcohol (C9-C11) pc	bly (2.5-9) ethoxylate

SECTION 15: REGULATORY INFORMATION

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



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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	5
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.

NOTIFICATION STATUS

Switzerland. Consolidated Inventory	CH INV	not listed (product or constituents are not 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)
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)
New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand	NZIOC	listed (product or constituents are listed)
Taiwan. Existing Chemicals Inventory (MOL No. 10302023691)	TCSI	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

Undecanol, branched and linear, ethoxylated (>= 2.5 EO)(CAS : 127036-24-2)

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



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SECTION 16: OTHER INFORMATION

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

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Causes serious eye irritation.

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
- 7. Handling and storage
- 8. Exposure controls/personal protection
- 9. Physical and chemical properties
- 11. Toxicological information
- 12. Ecological information
- 14. Transport information
- 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 voie de navigation interneure
AICS	Australian Inventory of Chemical Substances
ANSI	American National Standards Institute
ASTM	American National Standards Institute American Society of Testing and Materials (US)
BCF	Bioconcentration factor
CLP	Regulation on Classification, Labelling and Packaging of Substances and Mixtures
	Deutsches Institut für Normung
DNEL	Derived No-Effect Level
DNEL	Domestic Substances List
EC	Effect concentration %
EC ENCS	
EWC	Existing Notified Chemical Substances (Japan)
IATA	European Waste Catalogue
	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



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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