

**NACOL 18-98 P**

Version: 3.00

Revision Date 2021/12/11

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

Trade name	<b>NACOL 18-98 P</b>
REACH No.	01-2119485907-20-0000
Substance name (REACH / CLP)	octadecan-1-ol

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

Use	raw material for cosmetic agents raw material for washing and cleaning agents raw material for textile auxiliary agents raw material for synthesis processes in the chemical industry emulsifying agent raw material for pharmaceutical products raw material for lubricants and lubricant additives raw material for fragrances Solvent
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: msds-info.germany@de.sasol.com

**1.4 Emergency telephone number**

Emergency telephone number	+44 1235 239670	Europe
	+44 1235 239671	Middle East, Africa
	+1 215 207 0061	North America, South America
	+65 3158 1074	Asia Pacific Region
	+44 1865 407333	Global (english)

**SECTION 2: HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture**

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

**2.2 Label elements**

Not a hazardous substance or mixture.

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**2.3 Other hazards**

No hazards to be specially mentioned.

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

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

**CHEMICAL CHARACTERIZATION****octadecan-1-ol****component type:** Active ingredient**EC-No.:** 204-017-6**Index-No.:****CAS-No.:** 112-92-5**REACH No.:** 01-2119485907-20-0000**Substance name (REACH / CLP):** octadecan-1-ol**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

**SECTION 4: FIRST AID MEASURES****4.1 Description of first aid measures**

<b>General advice</b>	No hazards which require special first aid measures.
<b>If inhaled</b>	Remove from exposure, lie down. If breathing is irregular or stopped, administer artificial respiration. Monitor breathing, give oxygen if necessary. Consult a physician.
<b>In case of skin contact</b>	Wash off with plenty of water.
<b>In case of eye contact</b>	Rinse with plenty of water.
<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.
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**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****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 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.

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**SECTION 6: ACCIDENTAL RELEASE MEASURES**

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

**Personal precautions** Use personal protective equipment.

**Special precautions** Danger of slipping after spill or leakage.

**6.2 Environmental precautions**

**Environmental precautions** No special environmental precautions required.

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

**Methods for cleaning up** Sweep up or vacuum up spillage and collect in suitable container for disposal.

**6.4 Reference to other sections**

For personal protection see section 8.

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**SECTION 7: HANDLING AND STORAGE**

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**7.1 Precautions for safe handling**

**Advice on protection against fire and explosion** Normal measures for preventive fire protection.

**7.2 Conditions for safe storage, including any incompatibilities**

**Requirements for storage areas and containers** No special storage conditions required.

**Other data** Stable under normal conditions.

**7.3 Specific end use(s)**

**Specific use(s)** This information is not available.

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### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

##### COMPONENTS WITH WORKPLACE CONTROL PARAMETERS

###### National occupational exposure limits

Control parameters / Substance name	Typ	Control parameters	Update	Basis
octadecan-1-ol	AGW AGW	224 mg/m <sup>3</sup> 20 ppm	2007-03-30 2007-03-30	Germany. Occupational Exposure Limit Values - TRGS 900 (AGW)
	AGS: Committee on Hazardous Substances (Germany)			
hexadecan-1-ol	AGW AGW	200 mg/m <sup>3</sup> 20 ppm	2013-09-19 2013-09-19	Germany. Occupational Exposure Limit Values - TRGS 900 (AGW)
	AGS: Committee on Hazardous Substances (Germany)Sum of vapor and aerosols.			

No data available

###### EUROPEAN OCCUPATIONAL EXPOSURE LIMITS

No data available

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

Substance name: octadecan-1-ol			
End Use	Exposure routes	Value	Note
Workers	dermal, Acute/short-term exposure - systemic effects		No hazard identified
	Inhalation, Acute/short-term exposure - systemic effects		No hazard identified
	dermal, Acute/short-term exposure - local effects		No hazard identified
	Inhalation, Acute/short-term exposure - local effects		No hazard identified
	dermal, long-term exposure - systemic effects	110 mg/kg	based on body weight and day
	Inhalation, long-term exposure - systemic effects	389 mg/m <sup>3</sup>	
	dermal, long-term exposure - local effects		No hazard identified
Consumers	Inhalation, long-term exposure - local effects	224 mg/m <sup>3</sup>	
	Eye contact, Local effects		No hazard identified
	dermal, Acute/short-term exposure - systemic effects		No hazard identified
	Inhalation, Acute/short-term exposure - systemic effects		No hazard identified
	Oral, Acute/short-term exposure - systemic effects		No hazard identified

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	dermal, Acute/short-term exposure - local effects		No hazard identified
	Inhalation, Acute/short-term exposure - local effects		No hazard identified
	dermal, long-term exposure - systemic effects	55 mg/kg	based on body weight and day
	Inhalation, long-term exposure - systemic effects	96 mg/m3	
	Oral, long-term exposure - systemic effects	55 mg/kg	based on body weight and day
	dermal, long-term exposure - local effects		No hazard identified
	Inhalation, long-term exposure - local effects		No hazard identified
	Eye contact, Local effects		No hazard identified

### PREDICTED NO EFFECT CONCENTRATION (PNEC)

Substance name: octadecan-1-ol		
Environmental Compartment	Value	Note
Fresh water		No hazard identified
Marine water		No hazard identified
intermittent release		No hazard identified
Sewage treatment plant		No hazard identified
Fresh water sediment	56.6 mg/kg	based on dry weight
Marine sediment	5.66 mg/kg	based on dry weight
Soil	11.3 mg/kg	based on dry weight
food		No hazard identified
Air		No hazard identified

### 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 dust, fibres and smoke occur, use self-contained breathing apparatus or breathing apparatus with a type P2 or P3 filter, in compliance with EN 143.

##### Hand protection

Material: Nitrile rubber/nitrile latex  
Break through time: >= 480 min  
Glove thickness: 0.35 mm

Material: Polychloroprene  
Break through time: >= 480 min  
Glove thickness: 0.5 mm

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.

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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).

<b>Eye protection</b>	Safety glasses
<b>Hygiene measures</b>	Handle in accordance with good industrial hygiene and safety practice.
<b>Protective measures</b>	Wear suitable protective equipment.

### ENVIRONMENTAL EXPOSURE CONTROLS

<b>General advice</b>	No special environmental precautions required.
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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

<b>Physical state</b>	solid; 20 °C; 1,013 hPa
<b>Form</b>	solid
<b>Colour</b>	colourless
<b>Odour</b>	faint
<b>Odour Threshold</b>	No valid method available.
<b>pH</b>	Not applicable, Justification:, insoluble
<b>Melting point/range</b>	ca. 54 - 61 °C
<b>Boiling point/boiling range</b>	ca. 320 - 340 °C
<b>Flash point</b>	ca. 170 °C
<b>Evaporation rate</b>	Not relevant / Not applicable Justification: Solid
<b>Flammability (solid, gas)</b>	not auto-flammable
<b>Lower explosion limit</b>	Not applicable Justification: Solid
<b>Upper explosion limit</b>	Not applicable Justification: Solid
<b>Vapour pressure</b>	< 1.000 hPa; 20 °C
<b>Relative vapour density</b>	Not relevant / Not applicable, Justification: Solid
<b>Density</b>	ca.0.8 g/cm <sup>3</sup> ; 60 °C; DIN 51757
<b>Water solubility</b>	insoluble
<b>Partition coefficient: n-octanol/water</b>	Pow: ca. 7.4; OECD Test Guideline 117
<b>Ignition temperature</b>	ca. 270 °C; ASTM E 659
<b>Auto-ignition temperature</b>	not auto-flammable
<b>Viscosity, dynamic</b>	ca. 10 mPas; 60 °C

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<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

<b>Additional advice</b>	no data
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## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

<b>Note</b>	Stable at normal ambient temperature and pressure.
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### 10.2 Chemical stability

<b>Note</b>	No decomposition if stored and applied as directed.
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### 10.3 Possibility of hazardous reactions

<b>Hazardous reactions</b>	Hazardous decomposition products formed under fire conditions.
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### 10.4 Conditions to avoid

<b>Conditions to avoid</b>	Direct heating, dirt, chemical contamination, sunlight, UV or ionising radiation.
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### 10.5 Incompatible materials to avoid

<b>Materials to avoid</b>	Strong oxidizing agents; Strong acids
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### 10.6 Hazardous decomposition products

<b>Hazardous decomposition products</b>	No decomposition if used as directed.
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<b>Thermal decomposition</b>	No decomposition if used as directed.
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## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute toxicity

<b>Acute oral toxicity</b>	LD50 Rat: > 5,000 mg/kg; OECD Test Guideline 401 (literature value) Based on available data, the classification criteria are not met.
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<b>Acute inhalation toxicity</b>	Obtaining data is technically impossible. Justification: The LC50 is expected to be greater than the saturated vapour concentration based on weight of evidence across category.
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<b>Acute dermal toxicity</b>	LD50 Dermal Rabbit: > 5,000 mg/kg; Symptoms: Erythema, Emaciation, Weakness The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy). Test substance: 1-Tetradecanol Based on available data, the classification criteria are not met.
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#### Skin corrosion/irritation

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<b>Skin irritation</b>	Rabbit: not irritating; OECD Test Guideline 404 (literature value) Based on available data, the classification criteria are not met.
<b>Human experience - Skin contact</b>	not irritating
<b>Serious eye damage/eye irritation</b>	
<b>Eye irritation</b>	Rabbit: not irritating; OECD Test Guideline 405 (literature value) Based on available data, the classification criteria are not met.
<b>Respiratory or skin sensitisation</b>	
<b>Sensitisation</b>	Maximisation Test Guinea pig: not sensitizing; OECD Test Guideline 406 (literature value) Based on available data, the classification criteria are not met.
<b>Germ cell mutagenicity</b>	
<b>Genotoxicity in vitro</b>	In vitro tests did not show mutagenic effects (literature value) Category approach
<b>Genotoxicity in vivo</b>	In vivo tests did not show mutagenic effects (literature value) Category approach
<b>Remarks</b>	Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>	
<b>Carcinogenicity</b>	The study is not necessary. Justification: The substance has been shown to be not genotoxic, therefore it is not expected to have a carcinogenic potential. Category approach
<b>Reproductive toxicity</b>	
<b>Reproductive toxicity</b>	Rat; Oral; 55-day; OECD Test Guideline 422 No toxicity to reproduction (literature value)
<b>RemarksReproductive toxicity</b>	Based on available data, the classification criteria are not met.
<b>Teratogenicity</b>	Rat; Oral; OECD Test Guideline 422 Did not show teratogenic effects in animal experiments. (literature value)
<b>Remarks-Teratogenicity</b>	Based on available data, the classification criteria are not met.
<b>STOT - single exposure</b>	
<b>Remarks</b>	The substance or mixture is not classified as specific target organ toxicant, single exposure.
<b>STOT - repeated exposure</b>	
<b>Remarks</b>	The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
<b>Repeated dose toxicity</b>	Rat; oral feed; 90-day NOAEL: 4,400 mg/kg (based on body weight and day) The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy). Test substance: Hexadecan-1-ol
<b>Aspiration hazard</b>	



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**Aspiration toxicity** Not applicable

### Further information

**Toxicological information** Toxicokinetics  
The substance is poorly absorbed via skin.  
Components of the product may be absorbed into the body by ingestion.  
The substance is metabolised and excreted.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

**Toxicity to fish** (96 h) Oncorhynchus mykiss (rainbow trout) ; semi-static test; OECD Test Guideline 203  
In the range of water solubility not toxic under test conditions.  
(literature value)

**Toxicity to fish - Chronic toxicity** The study is not necessary.  
Sufficient information is available to predict no toxicity at the limit of solubility.

**Toxicity to daphnia and other aquatic invertebrates** (48 h) Daphnia magna (Water flea) ; static test; OECD Test Guideline 202  
In the range of water solubility not toxic under test conditions.  
(literature value)

**Toxicity to daphnia and other aquatic invertebrates - Chronic toxicity** NOEC (21 d) Daphnia magna (Water flea); reproduction rate; flow-through test; EPA OPPTS 850.1300  
(literature value)  
In the range of water solubility not toxic under test conditions.  
Test substance: Octadecanol, branched

**Toxicity to aquatic plants** (96 h) Desmodesmus subspicatus (green algae) ; static test; OECD Test Guideline 201; In the range of water solubility not toxic under test conditions.  
(literature value)

**Toxicity to bacteria** No data available  
The substance is not to be considered to be inhibitory to bacteria.

**Toxicity to soil dwelling organisms** No data available

### 12.2 Persistence and degradability

**Biodegradability** Readily biodegradable.; > 60 %; 28 d; aerobic; OECD Test Guideline 301B  
(literature value)

Biodegradable; > 60 %; 56 d; anaerobic  
Category approach  
(literature value)

### 12.3 Bioaccumulative potential

**Bioaccumulation** Bioaccumulation is unlikely.

### 12.4 Mobility in soil

**Mobility** Adsorption/Soil; Koc: 471350; log Koc: 5.67; OECD Test Guideline 106  
immobile  
strong adsorption to soil  
The substance and its relevant degradation products decompose rapidly.

### 12.5 Results of PBT and vPvB assessment

**Results of PBT assessment** This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

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This substance is not considered to be very persistent and very bioaccumulating (vPvB).

**12.6 Other adverse effects**

**General advice** None known.

**SECTION 13: DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

**Product** Can be incinerated, when in compliance with local regulations.

**Waste Code** A waste code in accordance with the European Waste Catalogue (EWC) may not be assigned to this product since it admits of a classification only when the consumer uses it for some purpose.  
The waste code must be determined in agreement with the regional waste disposal authority or company.

**SECTION 14: TRANSPORT INFORMATION****14.1 UN number**

**ADR** Not dangerous goods  
**RID** Not dangerous goods  
**ADN** Not dangerous goods  
**IMDG** Not dangerous goods  
**ICAO/IATA** Not dangerous goods

**14.2 Proper shipping name**

**ADR** Not dangerous goods  
**RID** Not dangerous goods  
**ADN** Not dangerous goods  
**IMDG** Not dangerous goods  
**ICAO/IATA** Not dangerous goods

**14.3 Transport hazard class**

**ADR** Not dangerous goods  
**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

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**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**

Not classified as dangerous in the meaning of transport regulations.

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Remarks No information available.

**SECTION 15: REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****NATIONAL/OTHER REGULATIONS****Legislation on the control of major-accident hazards involving dangerous substances**

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

list entry in the directive:: Not applicable

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

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**NOTIFICATION STATUS**

Australian Inventory of Industrial Chemicals	ZAU_AIC	listed (product or constituents are listed)
Canadian Domestic Substances List (DSL)	DSL	listed (product or constituents are listed)
Switzerland. Consolidated Inventory (based on EU-EINECS and EU-NLP)	CH INV	listed (product or constituents are listed)
China. Inventory of Existing Chemical Substances in China (IECSC)	IECSC	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)
Taiwan Chemical Substance Inventory (TCSI)	ZTW_INV	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****octadecan-1-ol**

A Chemical Safety Assessment has been carried out for this substance. An annex to the MSDS is not required.

**SECTION 16: OTHER INFORMATION****Safety datasheet sections which have been updated:**

1. Identification of the substance/mixture and of the company/undertaking
8. Exposure controls/personal protection

**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.

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**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

**Annex**

Attachments to the safety data sheet and/or lists of the identified uses for the listed substances can be downloaded using the internet links below.

**octadecan-1-ol**

[http://www.sasolgermany.de/fileadmin/doc/productsafety/Annex/000000000063\\_EN\\_01.pdf](http://www.sasolgermany.de/fileadmin/doc/productsafety/Annex/000000000063_EN_01.pdf)