NACOL 16 - 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 **NACOL 16 - 98 P**

REACH No. 01-2119485905-24-0000

Substance name (REACH / CLP) Hexadecan-1-ol

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
raw material for synthesis processes in the chemical industry
emulsifying agent
raw material for pharmaceutical products
raw material for fragrances

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.

2.3 Other hazards

None known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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

CHEMICAL CHARACTERIZATION

hexadecan-1-ol

component type: Active ingredient

EC-No.: 253-149-0 **Index-No.:** **CAS-No.:** 36653-82-4
REACH No.: 01-2119485905-24-0000
Substance name (REACH / CLP): hexadecan-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

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. Protect unharmed eye.
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	Use personal protective equipment. Wear self-contained breathing apparatus for firefighting if necessary.
Further information	Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	Use personal protective equipment.
Special precautions	Forms slippery/greasy layers with water.

6.2 Environmental precautions

Environmental precautions	Avoid subsoil penetration. Do not flush into surface water or sanitary sewer system.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up	Use mechanical handling equipment. The material taken up must be disposed of in accordance with regulations. Molten form Allow to solidify, use mechanical handling equipment.

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.
Advice on protection against fire and explosion	No special protective measures against fire required.
Fire-fighting class	B: Fires involving liquids or liquid containing substances. Also includes substances which become liquid at elevated temperatures.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers	No special storage conditions required.
Further information on storage conditions	Protect from frost, heat and sunlight.
Storage class (TRGS 510)	11: Combustible Solids
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

Control parameters / Substance name	Typ	Control parameters	Update	Basis
hexadecan-1-ol	AGW AGW	200 mg/m3 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.			
octadecan-1-ol	AGW AGW	224 mg/m3 20 ppm	2007-03-30 2007-03-30	Germany. Occupational Exposure Limit Values - TRGS 900 (AGW)
	AGS: Committee on Hazardous Substances (Germany)			

No data available

EUROPEAN OCCUPATIONAL EXPOSURE LIMITS

No data available

DERIVED NO EFFECT LEVEL (DNEL)

Substance name: hexadecan-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/m3	
	dermal, long-term exposure - local effects		No hazard identified
	Inhalation, long-term exposure - local effects	200 mg/m3	
	Eye contact, Local effects		No hazard identified
Consumers	dermal, Acute/short-term exposure -		No hazard identified

	systemic effects		
	Inhalation, Acute/short-term exposure - systemic effects		No hazard identified
	Oral, 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	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

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/m3	
	dermal, long-term exposure - local effects		No hazard identified
	Inhalation, long-term exposure - local effects	224 mg/m3	
	Eye contact, Local effects		No hazard identified
Consumers	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
	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: hexadecan-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		No hazard identified
Marine sediment		No hazard identified
Soil	5.8mg/kg dry weight (d.w.)	based on dry weight
Air		No hazard identified

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

ENGINEERING MEASURES

Provide sufficient air exchange and/or exhaust in work rooms.

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	Material: Fluorinated rubber Break through time: >= 480 min Glove thickness: 0.4 mm Material: Nitrile rubber/nitrile latex Break through time: >= 480 min Glove thickness: 0.35 mm Material: Polyvinylchloride Break through time: >= 120 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. 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). Unsuitable material: Natural rubber/natural latex Polychloroprene butyl-rubber
Eye protection	Goggles
Skin and body protection	Wear suitable protective equipment.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feedingstuffs.
Protective measures	Avoid contact with eyes.

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	solid; 20 °C; 1,013 hPa
Form	solid
Colour	colourless
Odour	odourless
Odour Threshold	No valid method available.

pH	Not applicable, Justification:, insoluble
Melting point/range	ca. 45 - 54 °C
Boiling point/boiling range	ca. 300 - 320 °C
Flash point	ca. 150 - 155 °C; DIN 51758
Evaporation rate	Not relevant / Not applicable Justification: Solid
Flammability (solid, gas)	No data available
Lower explosion limit	Not applicable Justification: Solid
Upper explosion limit	Not applicable Justification: Solid
Vapour pressure	< 1.000 hPa; 20 °C
Relative vapour density	Not relevant / Not applicable, Justification: Solid
Density	ca.0.8 g/cm3; 60 °C; DIN 51757
Water solubility	insoluble
Partition coefficient: n-octanol/water	Not applicable Justification: Solid
Ignition temperature	ca. 235 °C
Auto-ignition temperature	Not applicable solid with a melting point < 160°C
Viscosity, dynamic	ca. 8.0 mPas; 60 °C
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	Incompatible with oxidizing agents. Hazardous decomposition products formed under fire conditions.

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 oxidizing agents;

10.6 Hazardous decomposition products

Hazardous decomposition products	No decomposition if stored and applied as directed.
Thermal decomposition	Stable under normal conditions.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity	hexadecan-1-ol: LD50 Rat: > 5,000 mg/kg; OECD Test Guideline 401 (literature value) Based on available data, the classification criteria are not met.
Acute inhalation toxicity	hexadecan-1-ol: LC50 Rat: > 1.5 mg/l; 1 h maximal attainable concentration 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. The substance or mixture has no acute inhalation toxicity
Acute dermal toxicity	hexadecan-1-ol: 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.

Skin corrosion/irritation

Skin irritation	hexadecan-1-ol: Rabbit: not irritating; OECD Test Guideline 404 (literature value) Based on available data, the classification criteria are not met.
Human experience -Skin contact	hexadecan-1-ol: not irritating

Serious eye damage/eye irritation

Eye irritation	hexadecan-1-ol: Rabbit: not irritating; OECD Test Guideline 405 (literature value) Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation

Sensitisation	hexadecan-1-ol: Maximisation Test Guinea pig: not sensitizing; OECD Test Guideline 406 (literature value) Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity in vitro	hexadecan-1-ol: In vitro tests did not show mutagenic effects

(literature value)
Category approach

Genotoxicity in vivo

hexadecan-1-ol:
In vivo tests did not show mutagenic effects
(literature value)
Category approach

Remarks

hexadecan-1-ol:
Based on available data, the classification criteria are not met.

Carcinogenicity

Carcinogenicity

hexadecan-1-ol:
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

Reproductive toxicity

Reproductive toxicity

hexadecan-1-ol:
Rat; Oral; 90-day
No toxicity to reproduction
Category approach

RemarksReproductive toxicity

hexadecan-1-ol:
Based on available data, the classification criteria are not met.

Teratogenicity

hexadecan-1-ol:
Rat; Oral; OECD Test Guideline 422
Did not show teratogenic effects in animal experiments.
(literature value)
The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).
Test substance: dodecan-1-ol

Remarks-Teratogenicity

hexadecan-1-ol:
Based on available data, the classification criteria are not met.

STOT - single exposure

Remarks

hexadecan-1-ol:
The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure

Remarks

hexadecan-1-ol:
The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Repeated dose toxicity

hexadecan-1-ol:
Rat; oral feed; 90-day
NOAEL: 4,400 mg/kg (based on body weight and day)
(literature value)

Aspiration hazard

Aspiration toxicity

hexadecan-1-ol:
Not applicable

Toxicological information

hexadecan-1-ol:
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	hexadecan-1-ol: (96 h) Salmo gairdneri ; semi-static test; OECD Test Guideline 203 (literature value) In the range of water solubility not toxic under test conditions.
Toxicity to fish - Chronic toxicity	hexadecan-1-ol: 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	hexadecan-1-ol: (48 h) Daphnia magna (Water flea) ; calculated; QSAR (literature value) In the range of water solubility not toxic under test conditions.
Toxicity to daphnia and other aquatic invertebrates - Chronic toxicity	hexadecan-1-ol: The study is not necessary. Sufficient information is available to predict no toxicity at the limit of solubility.
Toxicity to aquatic plants	hexadecan-1-ol: (96 h) Desmodesmus subspicatus (green algae) ; static test; OECD Test Guideline 201; (literature value) In the range of water solubility not toxic under test conditions.
Toxicity to bacteria	hexadecan-1-ol: No data available The substance is not to be considered to be inhibitory to bacteria.
Toxicity to soil dwelling organisms	hexadecan-1-ol: No data available

12.2 Persistence and degradability

Biodegradability	hexadecan-1-ol: Readily biodegradable.; > 60 %; 28 d; aerobic; OECD Test Guideline 301B (literature value) hexadecan-1-ol: Biodegradable; > 60 %; 28 d; anaerobic (literature value)

12.3 Bioaccumulative potential

Bioaccumulation	hexadecan-1-ol: Bioaccumulation is unlikely.

12.4 Mobility in soil

Mobility	hexadecan-1-ol: Adsorption/Soil; Koc: 143000; log Koc: 5.15; calculated 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/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. 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	hexadecan-1-ol: 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	hexadecan-1-ol: 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

14.5 Environmental hazards

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

14.6 Special precautions for user

Not classified as dangerous in the meaning of transport regulations.

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

Remarks	No information available.

SECTION 15: REGULATORY INFORMATION

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

NATIONAL/OTHER REGULATIONS

Legislation on the control of major-accident hazards involving dangerous substances	Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. list entry in the directive:: Not applicable

NOTIFICATION STATUS

Switzerland. Consolidated Inventory (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

hexadecan-1-ol

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

octadecan-1-ol

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

tetradecanol

A Chemical Safety Assessment has been carried out for this substance.

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.

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.

hexadecan-1-ol

http://www.sasolgermany.de/fileadmin/doc/productsafety/Annex/000000000062_EN_01.pdf

octadecan-1-ol

http://www.sasolgermany.de/fileadmin/doc/productsafety/Annex/000000000063_EN_01.pdf

tetradecanol

http://www.sasolgermany.de/fileadmin/doc/productsafety/Annex/000000000101_EN_01.pdf