

**PARAFOL 18 - 97**

Version: 3.05

Revision Date 09.04.2018

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

Trade name	<b>PARAFOL 18 - 97</b>
INCI	Octadecane
REACH No.	01-2119936912-33-0000
Substance name (REACH / CLP)	Octadecane

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

Use	Industrial use Heat storage medium raw material for cosmetic agents
Uses advised against	

**1.3 Details of the supplier of the safety data sheet**

Company	SASOL Germany GmbH Anckelmannsplatz 1 20537 Hamburg  Telephone: +49 40 63684-1000 Telefax: +49 40 63684-3700
Information (Product safety):	Telephone: + 49 (0) 23 65 - 49 47 05 Telefax: + 49 (0) 23 65 - 49 92 40
E-mail address	msds-info.germany@de.sasol.com

**1.4 Emergency telephone number**

Emergency telephone number	+ 49 (0) 5 51 - 1 92 40 (GIZ-Nord Poisons Centre)
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**SECTION 2: HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Aspiration hazard Category 1 May be fatal if swallowed and enters airways.

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

Signal word Danger

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**Hazard statements**

H304

May be fatal if swallowed and enters airways.

**Precautionary statements**

P301 + P310

IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P331

Do NOT induce vomiting.

P405

Store locked up.

P501

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

**Supplemental Hazard Statements**

EUH066

Repeated exposure may cause skin dryness or cracking.

**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.

**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****Octadecane****component type:** Active ingredient**EC-No.:** 209-790-3**Index-No.:****CAS-No.:** 593-45-3**REACH No.:** 01-2119936912-33-0000**Substance name (REACH / CLP):** Octadecane**Classification (Regulation**

Asp. Tox. 1

H304

**(EC) No 1272/2008):**

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**

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

**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 with plenty of water.

**In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed**

If swallowed, seek medical advice immediately and show this container or label. If swallowed, DO NOT induce vomiting.

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**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: Do not induce vomiting: contains petroleum distillates and/or aromatic solvents.

**SECTION 5: FIREFIGHTING MEASURES****5.1 Extinguishing media****Suitable extinguishing media**Water spray, Dry powder, Foam, Carbon dioxide (CO<sub>2</sub>)**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. Use water spray to cool unopened containers.

**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).

**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.

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**Advice on protection against fire and explosion**

Keep away from open flames, hot surfaces and sources of ignition.  
Normal measures for preventive fire protection.

**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**

Store in original container. Keep container tightly closed.

**Storage class (TRGS 510)**

11: Combustible Solids

**Other data**

Stable at normal ambient temperature and pressure.

**container material**

suitable materials: Steel

**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: Octadecane			
End Use	Exposure routes	Value	Note
Workers	dermal, Acute/short-term exposure - systemic effects		Not relevant / not applicable
	Inhalation, Acute/short-term exposure - systemic effects		Not relevant / not applicable
	dermal, Acute/short-term exposure - local effects		Not relevant / not applicable
	Inhalation, Acute/short-term exposure - local effects		Not relevant / not applicable
	dermal, long-term exposure - systemic effects		Not relevant / not applicable
	Inhalation, long-term exposure - systemic effects		Not relevant / not applicable
	dermal, long-term exposure - local effects		Not relevant / not applicable
	Inhalation, long-term exposure - local effects		Not relevant / not applicable
Consumers	dermal, Acute/short-term exposure - systemic effects		Not relevant / not applicable
	Inhalation, Acute/short-term exposure -		Not relevant / not applicable

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	systemic effects		
	Oral, Acute/short-term exposure - systemic effects		Not relevant / not applicable
	dermal, Acute/short-term exposure - local effects		Not relevant / not applicable
	Inhalation, Acute/short-term exposure - local effects		Not relevant / not applicable
	dermal, long-term exposure - systemic effects		Not relevant / not applicable
	Inhalation, long-term exposure - systemic effects		Not relevant / not applicable
	Oral, long-term exposure - systemic effects		Not relevant / not applicable
	dermal, long-term exposure - local effects		Not relevant / not applicable
	Inhalation, long-term exposure - local effects		Not relevant / not applicable

**PREDICTED NO EFFECT CONCENTRATION (PNEC)**

Substance name: Octadecane		
Environmental Compartment	Value	Note
Fresh water		Not relevant / not applicable
Marine water		Not relevant / not applicable
intermittent release		Not relevant / not applicable
treatment plant		Not relevant / not applicable
Fresh water sediment		Not relevant / not applicable
Marine sediment		Not relevant / not applicable
Soil		Not relevant / not applicable
food		Not relevant / not applicable

**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: Fluorinated rubber

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Break through time:  $\geq 480$  min  
Layer thickness: 0,4 mm

Material: Nitrile rubber/nitrile latex  
Break through time:  $\geq 480$  min  
Layer thickness: 0,35 mm

**gloves suitable for splash protection:**

Material: Polychloroprene  
Break through time:  $\geq 240$  min  
Layer thickness: 0,5 mm

**unsuitable gloves**

Material: Natural rubber/natural latex, butyl-rubber, Polyvinylchloride

**Eye protection**

Tightly fitting safety goggles

**Protective measures**

Avoid contact with 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**

<b>Physical state</b>	solid; 20 °C; 1.013 hPa
<b>Form</b>	solid
<b>Colour</b>	colourless
<b>Odour</b>	characteristic
<b>Odour Threshold</b>	No data available
<b>pH</b>	Not applicable
<b>Melting point/range</b>	ca. 28 °C
<b>Flash point</b>	ca. 152 - 160 °C
<b>Evaporation rate</b>	Not relevant / not applicable Justification: Solid
<b>Flammability (solid, gas)</b>	No data available
<b>Lower explosion limit</b>	Not applicable Justification: Solid
<b>Upper explosion limit</b>	Not applicable Justification: Solid
<b>Vapour pressure</b>	< 5 Pa; 20 °C; NF T 20-048 < 5 Pa; 50 °C; NF T 20-048
<b>Relative vapour density</b>	Not applicable, Justification: Solid

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Density	ca.0,768 g/cm <sup>3</sup> ; 40 °C; DIN 51757
Water solubility	insoluble
Partition coefficient: n-octanol/water	log Pow: ca. 9; Calculated according to EPA
Ignition temperature	Not relevant, solid with a melting point < 160°C
Auto-ignition temperature	not auto-flammable
Viscosity, dynamic	ca. 3,1 mPas; 40 °C
Viscosity, kinematic	4,1 mm <sup>2</sup> /s; 40 °C
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**

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**10.1 Reactivity**

**Note** Stable under recommended storage conditions.

**10.2 Chemical stability**

**Note** Stable under normal conditions.

**10.3 Possibility of hazardous reactions**

**Hazardous reactions** Heating can release hazardous gases.  
Vapours may form explosive mixture with air.

**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 normally.

**SECTION 11: TOXICOLOGICAL INFORMATION**

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

**Acute oral toxicity** Octadecane:  
LD<sub>50</sub> Rat: > 2.000 mg/kg; OECD Test Guideline 401  
(literature value)  
Category approach

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	Based on available data, the classification criteria are not met.
<b>Acute inhalation toxicity</b>	Octadecane: LC50 Rat: > 5 mg/l; 4 h; OECD Test Guideline 403 Test atmosphere: dust/mist Category approach (literature value) Based on available data, the classification criteria are not met.
<b>Acute dermal toxicity</b>	Octadecane: LD50 Rat: > 2.000 mg/kg; OECD Test Guideline 402 (literature value) Category approach Based on available data, the classification criteria are not met.
<b>Skin corrosion/irritation</b>	
<b>Skin irritation</b>	Octadecane: Rabbit: slightly irritating; OECD Test Guideline 404 (literature value) Category approach Based on available data, the classification criteria are not met.
<b>Serious eye damage/eye irritation</b>	
<b>Eye irritation</b>	Octadecane: Rabbit: slightly irritating; OECD Test Guideline 405 (literature value) Category approach Based on available data, the classification criteria are not met.
<b>Respiratory or skin sensitisation</b>	
<b>Sensitisation</b>	Octadecane: Maximisation Test Guinea pig: not sensitizing; OECD Test Guideline 406 (literature value) Category approach Based on available data, the classification criteria are not met.
<b>Germ cell mutagenicity</b>	
<b>Genotoxicity in vitro</b>	Octadecane: In vitro tests did not show mutagenic effects Category approach
<b>Genotoxicity in vivo</b>	Octadecane: In vivo tests did not show mutagenic effects Category approach
<b>Remarks</b>	Octadecane: Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>	
<b>Remarks</b>	Octadecane: Based on available data, the classification criteria are not met.
<b>Reproductive toxicity</b>	
<b>Reproductive toxicity</b>	Octadecane: No data available
<b>Teratogenicity</b>	Octadecane: Rat NOAEL: > 1.000 mg/kg (based on body weight and day) NOAEL (pregnant female): > 1.000 mg/kg (based on body weight and day) Category approach
<b>Remarks-Teratogenicity</b>	Octadecane:

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Did not show teratogenic effects in animal experiments.

**STOT - single exposure****Remarks**

Octadecane:  
The substance or mixture is not classified as specific target organ toxicant, single exposure.

**STOT - repeated exposure****Remarks**

Octadecane:  
The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

**Repeated dose toxicity**

Octadecane:  
Rat; Oral; Subchronic toxicity  
NOAEL: > 5.000 mg/kg (based on body weight and day); OECD Test Guideline 408  
Category approach

**Aspiration hazard****Aspiration toxicity**

Octadecane:  
May be fatal if swallowed and enters airways.

**Human experience**

Octadecane:  
Repeated exposure may cause skin dryness or cracking.  
No skin irritation  
Until now, sensitisation has not occurred during handling.

**Toxicological information**

Octadecane:  
The substance is predicted to be bioavailable via the oral route.  
The substance is poorly absorbed via skin.  
extensive and rapid metabolism  
The substance is rapidly eliminated from the body.  
Category approach  
(literature value)

**SECTION 12: ECOLOGICAL INFORMATION****12.1 Toxicity****Toxicity to fish**

Octadecane:  
LL50 (96 h) *Scophthalmus maximus*: > 100 mg/l ; static test  
(literature value)  
Category approach

**Toxicity to fish - Chronic toxicity**

Octadecane:  
NOEL (28 d) *Oncorhynchus mykiss* (rainbow trout): > 1.000 mg/l; Growth rate; QSAR  
Category approach  
In the range of water solubility not toxic under test conditions.  
(literature value)

**Toxicity to daphnia and other aquatic invertebrates**

Octadecane:  
LL50 (48 h) *Acartia tonsa*: > 100 mg/l  
(literature value)  
Category approach

**Toxicity to daphnia and other aquatic invertebrates - Chronic toxicity**

Octadecane:  
NOEL (21 d) *Daphnia magna* (Water flea): > 1.000 mg/l; reproduction rate; QSAR;  
Category approach  
In the range of water solubility not toxic under test conditions.

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	(literature value)
<b>Toxicity to aquatic plants</b>	Octadecane: EL50 (72 h) <i>Skeletonema costatum</i> (marine diatom): > 100 mg/l; (literature value) Category approach
<b>Toxicity to bacteria</b>	Octadecane: EC50 (3 h) activated sludge of a predominantly domestic sewage: > 100 mg/l; OECD Test Guideline 209 Category approach (literature value)
<b>Toxicity to soil dwelling organisms</b>	Octadecane: The study is not necessary. Justification: Readily biodegradable.
<b>Toxicity to terrestrial flora</b>	Octadecane: The study is not necessary. Justification: Readily biodegradable.
<b>Toxicity for other terrestrial non-mammalian fauna</b>	Octadecane: The study is not necessary. Justification: Readily biodegradable.
<b>12.2 Persistence and degradability</b>	
<b>Biodegradability</b>	Octadecane: Readily biodegradable.; > 60 %; 28 d; aerobic; OECD Test Guideline 306 (literature value) Category approach  Octadecane: rapidly biodegradable; > 60 %; 28 d; aerobic; OECD Test Guideline 301F The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy). Test substance: n-Tetradecane - n-Heptadecane
<b>12.3 Bioaccumulative potential</b>	
<b>Bioaccumulation</b>	Octadecane: Bioaccumulation is unlikely. Category approach (literature value)
<b>12.4 Mobility in soil</b>	
<b>Mobility</b>	Octadecane: Adsorption/Soil; Koc: > 5000; calculated immobile
<b>12.5 Results of PBT and vPvB assessment</b>	
<b>Results of PBT assessment</b>	Octadecane: Category approach Based on available data, the classification criteria are not met.
<b>12.6 Other adverse effects</b>	
<b>General advice</b>	Octadecane: None known.

**SECTION 13: DISPOSAL CONSIDERATIONS**

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**13.1 Waste treatment methods**

<b>Product</b>	Can be incinerated, when in compliance with local regulations.
<b>waste code of the European Union: EWC</b>	A waste code in accordance with the European Waste Catalogue (EWC) may not be assigned to this product since it admits of a classification only when the consumer uses it for some purpose. The waste code must be determined in agreement with the regional waste disposal authority or company.

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

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

**14.2 Proper shipping name**

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

**14.3 Transport hazard class**

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

**14.4 Packing group**

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

**14.5 Environmental hazards**

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

**14.6 Special precautions for user**

Not classified as dangerous in the meaning of transport regulations.

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**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**

**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

**NOTIFICATION STATUS**

Switzerland. Consolidated Inventory	CH INV	listed (product or constituents are 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)

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****Octadecane**

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

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**SECTION 16: OTHER INFORMATION****Full text of H-Statements referred to under sections 2 and 3.**

H304 May be fatal if swallowed and enters airways.

**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.

This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

New findings, especially with regard to toxicology and ecology, in future may require different labelling.

**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)
EWG	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
IUPAC	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



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### Annex

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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.

#### Octadecane

[http://www.sasolgermany.de/fileadmin/doc/productsafety/Annex/000000005275\\_EN\\_01.pdf](http://www.sasolgermany.de/fileadmin/doc/productsafety/Annex/000000005275_EN_01.pdf)

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