

NACOL 22 - 98

Version: 4.08

Revision Date 07.11.2017

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

| | |
|-------------------------------------|-----------------------|
| Trade name | NACOL 22 - 98 |
| INCI | Behenyl Alcohol |
| REACH No. | 01-2119487963-20-0000 |
| Substance name (REACH / CLP) | docosan-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 |
| Uses advised against | raw material for synthesis processes in the chemical industry |

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) |
|-----------------------------------|---|

SECTION 2: HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2 Label elements

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.3 Other hazards

No hazards to be specially mentioned.

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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

CHEMICAL CHARACTERIZATION**Docosan-1-ol****component type:** Active ingredient**EC-No.:** 211-546-6**Index-No.:****CAS-No.:** 661-19-8**REACH No.:** 01-2119487963-20-0000**Substance name (REACH / CLP):** docosan-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****Substances for which maximum allowable workplace concentrations have been laid down****Docosan-1-ol****content:** >= 96 %**component type:** Active ingredient**EC-No.:** 211-546-6**Index-No.:****CAS-No.:** 661-19-8**REACH No.:** 01-2119487963-20-0000**Substance name (REACH / CLP):** docosan-1-ol

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

| | |
|--------------------------------|--|
| General advice | No hazards which require special first aid measures. |
| 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 with plenty of water. |
| 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

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5.1 Extinguishing media**Suitable extinguishing media** Water spray, Dry powder, Foam, Carbon dioxide (CO2)**5.2 Special hazards arising from the substance or mixture****Specific hazards during firefighting** Dangerous gases or fumes may occur in case of fire.**5.3 Advice for firefighters****Special protective equipment for firefighters** Wear self-contained breathing apparatus for firefighting if necessary.**Further information** Standard procedure for chemical fires.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures**Personal precautions** Use personal protective equipment.**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.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling**Advice on protection against fire and explosion** 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** No special storage conditions required.**Storage class (TRGS 510)** 11: Combustible Solids**Other data** Stable under normal conditions.**7.3 Specific end use(s)**

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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 |
|-------------------------------------|--------|--------------------|---------|--------|
| DOCOSANOL, 1- (AS C22 ALCOHOL) | ST ESL | 100 | 12 2010 | TX ESL |
| DOCOSANOL, 1- (AS C22 ALCOHOL) | AN ESL | 10 | 12 2010 | TX ESL |
| EICOSANOL, 1- | ST ESL | 100 | 12 2010 | TX ESL |
| EICOSANOL, 1- | AN ESL | 10 | 12 2010 | TX ESL |
| OCTADECANOL, 1- | ST ESL | 100 | 12 2010 | TX ESL |
| ALFOL (EPAL)18 | AN ESL | 10 | 12 2010 | TX ESL |
| DOCOSANOL, 1- (AS C22 ALCOHOL) | ST ESL | 100 | 12 2010 | TX ESL |
| DOCOSANOL, 1- (AS C22 ALCOHOL) | AN ESL | 10 | 12 2010 | TX ESL |

EUROPEAN OCCUPATIONAL EXPOSURE LIMITS

No data available

DERIVED NO EFFECT LEVEL (DNEL)

| Substance name: docosan-1-ol | | | |
|------------------------------|--|-----------------------|-------------------------------|
| End Use | Exposure routes | Value | Note |
| Workers | dermal, Acute/short-term exposure - systemic effects | 125 mg/kg | based on body weight and day |
| | Inhalation, Acute/short-term exposure - systemic effects | 220 mg/m ³ | |
| | 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 | 125 mg/kg | based on body weight and day |
| | Inhalation, long-term exposure - systemic effects | 220 mg/m ³ | |
| | 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 | 75 mg/kg | based on body weight and day |
| | Inhalation, Acute/short-term exposure - | 65 mg/m ³ | |

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| | | | |
|--|---|----------------------|-------------------------------|
| | systemic effects | | |
| | Oral, Acute/short-term exposure - systemic effects | 75 mg/kg | based on body weight and day |
| | 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 | 75 mg/kg | based on body weight and day |
| | Inhalation, long-term exposure - systemic effects | 65 mg/m ³ | |
| | Oral, long-term exposure - systemic effects | 75 mg/kg | based on body weight and day |
| | 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: docosan-1-ol | | |
|------------------------------|---------------|-------------------------------|
| Environmental Compartment | Value | Note |
| Fresh water | 0,00156 mg/l | |
| Marine water | 0,000156 mg/l | |
| intermittent release | | Not relevant / not applicable |
| treatment plant | 0,000036 mg/l | |
| Fresh water sediment | 82 mg/kg | based on dry weight |
| Marine sediment | 8,2 mg/kg | based on dry weight |
| Soil | 66 mg/kg | based on dry weight |
| 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 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

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: Nitrile rubber/nitrile latex
Break through time: >= 480 min

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Layer thickness: 0,35 mm

Material: butyl-rubber
 Break through time: >= 480 min
 Layer thickness: 0,5 mm

| | |
|----------------------------|--|
| Eye protection | Safety glasses |
| Hygiene measures | Handle in accordance with good industrial hygiene and safety practice. |
| Protective measures | No special protective equipment required. |

ENVIRONMENTAL EXPOSURE CONTROLS

| | |
|-----------------------|--|
| General advice | No special environmental precautions required. |
|-----------------------|--|

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 | characteristic |
| Odour Threshold | No data available |
| pH | Not applicable, Justification:, insoluble |
| Melting point/range | ca. 69 - 73 °C |
| Flash point | ca. 227 °C |
| Evaporation rate | Not relevant / not applicable Justification: Solid |
| Flammability (solid, gas) | not auto-flammable |
| 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/cm ³ ; 80 °C; DIN 51757 |
| Water solubility | insoluble |
| Partition coefficient: n-octanol/water | log Pow: ca. 8,3; own test results/literature values |
| Ignition temperature | ca. 220 °C |
| Auto-ignition temperature | not auto-flammable |

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| | |
|-----------------------------|--|
| Viscosity, dynamic | ca. 7,5 mPas; 80 °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 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

10.6 Hazardous decomposition products

Hazardous decomposition products No decomposition if used as directed.

Thermal decomposition No decomposition if used as directed.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity LD50 Rat: > 5.000 mg/kg; OECD Test Guideline 401
Based on available data, the classification criteria are not met.

Acute inhalation toxicity The study is not necessary.
Justification:
The LC50 is expected to be greater than the saturated vapour concentration based on weight of evidence across category.

Acute dermal toxicity LD50 Rabbit: > 5.000 mg/kg;
(literature value)
The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).
Test substance: Icosan-1-ol
Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Skin irritation Rabbit: not irritating; OECD Test Guideline 404
(literature value)

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

Serious eye damage/eye irritation

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

Respiratory or skin sensitisation

Sensitisation Maximisation Test Guinea pig: not sensitizing; OECD Test Guideline 406
Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity in vitro In vitro tests did not show mutagenic effects (literature value)
Category approach

Genotoxicity in vivo In vivo tests did not show mutagenic effects (literature value)
Category approach

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

Carcinogenicity

Carcinogenicity 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 Rat; Oral
No toxicity to reproduction (literature value)

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

Teratogenicity Rabbit; Oral
Did not show teratogenic effects in animal experiments. (literature value)

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

STOT - single exposure

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

STOT - repeated exposure

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

Repeated dose toxicity Rat; Oral; 182-day
NOAEL: 1.000 mg/kg (based on body weight and day); OECD Test Guideline 408 (literature value)

Aspiration hazard

Aspiration toxicity Not applicable

Further information

Toxicological information Toxicokinetics
The substance is poorly absorbed via skin.
The substance is predicted to be bioavailable via the oral route.
The substance is metabolised and excreted.

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SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

| | |
|---|--|
| Toxicity to fish | LC50 (96 h) Oncorhynchus mykiss (rainbow trout): > 100 mg/l ; 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) ; calculated; QSAR (literature value) In the range of water solubility not toxic under test conditions. |
| Toxicity to daphnia and other aquatic invertebrates - Chronic toxicity | The study is not necessary. Sufficient information is available to predict no toxicity at the limit of solubility. |
| Toxicity to aquatic plants | ; calculated; In the range of water solubility not toxic under test conditions. Category approach |
| Toxicity to bacteria | The study is not necessary. Readily biodegradable. The substance is not to be considered to be inhibitory to bacteria. |
| Toxicity to soil dwelling organisms | The study is not necessary. Readily biodegradable. The substance does not pose a chronic hazard to soil organisms. |
| Toxicity to terrestrial flora | The study is not necessary. Readily biodegradable. The substance does not pose a chronic hazard to soil organisms. |
| Toxicity for other terrestrial non-mammalian fauna | The study is not necessary. Studies on birds do not need to be conducted due to large mammalian dataset. |

12.2 Persistence and degradability

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

12.3 Bioaccumulative potential

| | |
|------------------------|------------------------------|
| Bioaccumulation | Bioaccumulation is unlikely. |
|------------------------|------------------------------|

12.4 Mobility in soil

| | |
|-----------------|---|
| Mobility | Adsorption/Soil; Koc: 112000; 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 | Based on available data, the classification criteria are not met. This substance is not considered to be persistent, bioaccumulating and toxic (PBT). |
|----------------------------------|--|

12.6 Other adverse effects

| | |
|-----------------------|-------------|
| General advice | None known. |
|-----------------------|-------------|

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SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

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

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

| | |
|------------------|---------------------|
| ADR | Not dangerous goods |
| RID | Not dangerous goods |
| ADN | Not dangerous goods |
| IMDG | Not dangerous goods |
| ICAO/IATA | Not dangerous goods |

14.2 Proper shipping name

| | |
|------------------|---------------------|
| ADR | Not dangerous goods |
| RID | Not dangerous goods |
| ADN | Not dangerous goods |
| IMDG | Not dangerous goods |
| ICAO/IATA | Not dangerous goods |

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

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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

| | | |
|--|------------|---|
| 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) |
| New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand | NZIOC | 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) |
| Switzerland. Consolidated Inventory | CH INV | 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

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

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SECTION 16: OTHER INFORMATION

Safety datasheet sections which have been updated:

- 11. Toxicological information
- 12. Ecological 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 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 |

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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.

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http://www.sasolgermany.de/fileadmin/doc/productsafety/Annex/000000000109_EN_01.pdf
