

NACOL 10 - 98

Version: 6.05

Revision Date 10.01.2019

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

Trade name	NACOL 10 - 98
REACH No.	01-2119480407-35-XXXX
Substance name (REACH / CLP)	decan-1-ol

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

Use	Industrial use raw material for washing and cleaning agents raw material for synthesis processes in the chemical industry
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)**

Eye irritation Category 2	Causes serious eye irritation.
Long-term (chronic) aquatic hazard Category 3	Harmful to aquatic life with long lasting effects.

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

Signal word	Warning
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Hazard statements

H319 Causes serious eye irritation.
 H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P264 Wash face, hands and any exposed skin thoroughly after handling.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
 P337 + P313 If eye irritation persists: Get medical advice/ attention.
 P391 Collect spillage.
 P501 Dispose of contents/ container to an approved incineration plant.

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

Decan-1-ol

EC-No.: 203-956-9	Index-No.:	component type: Active ingredient
REACH No.: 01-2119480407-35-XXXX		CAS-No.: 112-30-1
Substance name (REACH / CLP): decan-1-ol		
Classification (Regulation (EC) No 1272/2008):	Eye Irrit. 2 Aquatic Chronic	H319 3 H412

Dodecan-1-ol

content: <= 0,5 %	component type: Impurity	
EC-No.: 203-982-0	Index-No.:	CAS-No.: 112-53-8
Classification (Regulation (EC) No 1272/2008):		
	Eye Irrit. 2 Aquatic Acute Aquatic Chronic	H319 1 H400 2 H411

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

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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	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.
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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.
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SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media	Water spray, Dry powder, Foam, Carbon dioxide (CO ₂)
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5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting	Dangerous gases or fumes may occur in case of fire.
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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.
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6.2 Environmental precautions

Environmental precautions	Avoid subsoil penetration. Do not flush into surface water or sanitary sewer system.
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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).
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6.4 Reference to other sections

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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.
Storage class (TRGS 510)	10-13: German Storage Class 10 to 13

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

No data available

EUROPEAN OCCUPATIONAL EXPOSURE LIMITS

No data available

DERIVED NO EFFECT LEVEL (DNEL)

Substance name: decan-1-ol			
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	250 mg/kg	based on body weight and day
	Inhalation, long-term exposure - systemic effects	176 mg/m3	

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	dermal, long-term exposure - local effects	0,19 mg/cm ²	
	Inhalation, long-term exposure - local effects	129 mg/m ³	
Consumers	dermal, Acute/short-term exposure - systemic effects		Not relevant / not applicable
	Inhalation, Acute/short-term exposure - systemic effects		Not relevant / not applicable
	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	125 mg/kg	based on body weight and day
	Inhalation, long-term exposure - systemic effects	43,5 mg/m ³	
	Oral, long-term exposure - systemic effects	12,5 mg/kg	based on body weight and day
	dermal, long-term exposure - local effects	0,067 mg/cm ²	
	Inhalation, long-term exposure - local effects		Not relevant / not applicable

PREDICTED NO EFFECT CONCENTRATION (PNEC)

Substance name: decan-1-ol		
Environmental Compartment	Value	Note
Fresh water	0,042 mg/l	
Marine water	0,0042 mg/l	
intermittent release	0,08 mg/l	
treatment plant	1,5 mg/l	
Fresh water sediment	7 mg/kg	based on dry weight
Marine sediment	0,7 mg/kg	based on dry weight
Soil	1,27 mg/kg	based on dry weight
Air		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

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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
Layer thickness: 0,35 mm

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

gloves suitable for splash protection:

Material: Natural rubber/natural latex
Break through time: >= 60 min
Layer thickness: 0,5 mm

Eye protection	Tightly fitting safety 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. 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.
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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	liquid; 20 °C; 1.013 hPa
Form	liquid
Colour	colourless
Odour	characteristic
Odour Threshold	No valid method available
pH	Not applicable, Justification:., insoluble
Pour point	ca. 6 °C; ISO 3016
Boiling point/boiling range	ca. 220 - 235 °C
Flash point	ca. 114 °C; DIN 51758
Evaporation rate	No data available
Flammability (solid, gas)	not applicable (liquid)

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Lower explosion limit	No data available
Upper explosion limit	No data available
Vapour pressure	< 0,01 hPa; 20 °C
Relative vapour density	No data available
Density	ca.0,8 g/cm ³ ; 20 °C; DIN 51757
Water solubility	insoluble
Partition coefficient: n-octanol/water	log Pow: ca. 4,7; 23 °C; OECD Test Guideline 117
Ignition temperature	ca. 285 °C; ASTM E 659
Auto-ignition temperature	not auto-flammable
Viscosity, dynamic	ca. 14,1 mPas; 20 °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

Additional advice	This information applies to a group of products. The specific data on the grade referred to above can be obtained from the Product Information sheet.
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SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Note	Stable at normal ambient temperature and pressure.
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10.2 Chemical stability

Note	No decomposition if stored and applied as directed.
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10.3 Possibility of hazardous reactions

Hazardous reactions	Hazardous decomposition products formed under fire conditions.
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10.4 Conditions to avoid

Conditions to avoid	Direct heating, dirt, chemical contamination, sunlight, UV or ionising radiation.
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10.5 Incompatible materials to avoid

Materials to avoid	Strong acids and strong bases; Strong oxidizing agents; Strong reducing agents
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10.6 Hazardous decomposition products

Hazardous decomposition products	No decomposition if stored and applied as directed.
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SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

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Acute toxicity

Acute oral toxicity	LD50 Rat: > 5,000 mg/kg; OPPTS 870.1100 (literature value) Based on available data, the classification criteria are not met.
Acute inhalation toxicity	LC50 Rat: > 71 mg/l; 1 h Target Organs: Lungs Symptoms: Salivation, Drowsiness, Shortness of breath (literature value) Based on available data, the classification criteria are not met.
Acute dermal toxicity	LD50 Dermal Rabbit: > 5.000 mg/kg; OPPTS 870.1200 Target Organs: Skin Symptoms: Local irritation (literature value) Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Skin irritation	Rabbit: moderately irritating; OPPTS 870.2500 (literature value) Based on available data, the classification criteria are not met.
Human experience - Skin contact	not irritating (literature value)

Serious eye damage/eye irritation

Eye irritation	Rabbit: irritating; OPPTS 870.2400 (literature value) Causes serious eye irritation.
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Respiratory or skin sensitisation

Sensitisation	Buehler Test Guinea pig: not sensitizing; OPPTS 870.2600 (literature value) Based on available data, the classification criteria are not met.
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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
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Reproductive toxicity

Reproductive toxicity	Rat; Oral Repeated dose toxicity studies gave no indication of adverse effects on reproductive organs. (literature value) Category approach
RemarksReproductive toxicity	Based on available data, the classification criteria are not met.
Teratogenicity	Rat; Oral; OECD Test Guideline 414 Did not show teratogenic effects in animal experiments. (literature value)

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	The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy). Test substance: octan-1-ol
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; Subchronic toxicity NOAEL: 2.000 mg/kg (based on body weight and day); OECD Test Guideline 422 (literature value) The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy). Test substance: dodecan-1-ol
Aspiration hazard	
Aspiration toxicity	Based on available data, the classification criteria are not met.
Further information	
Toxicological information	Toxicokinetics, metabolism and distribution extensive and rapid metabolisation (literature value)

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 (96 h) Pimephales promelas (fathead minnow): > 1 - 10 mg/l ; flow-through test; OECD Test Guideline 203 (literature value)
Toxicity to fish - Chronic toxicity	EC10 (33 d) Pimephales promelas (fathead minnow): 0,43 mg/l; mortality; flow-through test; OECD Test Guideline 210
Toxicity to daphnia and other aquatic invertebrates	LC50 (96 h) Nitocra spinipes: > 1 - 10 mg/l ; static test; OECD Test Guideline 202 (literature value)
Toxicity to daphnia and other aquatic invertebrates - Chronic toxicity	NOEC (21 d) Daphnia magna (Water flea): 0,11 mg/l; reproduction rate; semi-static test; OECD Test Guideline 211; (literature value)
Toxicity to aquatic plants	EC50 (72 h) algae: > 1 - 10 mg/l ; calculated; (literature value) Category approach
Toxicity to bacteria	The study is not necessary. Justification: Readily biodegradable. The substance is not to be considered to be inhibitory to bacteria.
Toxicity to soil dwelling organisms	EC50 (72 h) Caenorhabditis elegans, Worm (Nematoda): 98 mg/kg; mortality (literature value)
Toxicity to terrestrial flora	Obtaining data is technically impossible.
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.

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12.2 Persistence and degradability

Biodegradability > 60 %; 30 d; aerobic; OECD Test Guideline 301D (literature value)

12.3 Bioaccumulative potential

Bioaccumulation Bioconcentration factor (BCF): 20; calculated
Bioaccumulation is unlikely.

12.4 Mobility in soil

Mobility Adsorption/Soil/Sewage sludge; Medium: water - soil; Koc: 1010 - 1433; OECD Test Guideline 106
Slightly mobile in soils

12.5 Results of PBT and vPvB assessment

Results of PBT assessment 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 Harmful to aquatic life with long lasting effects.

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 The waste code must be determined in agreement with the regional waste disposal authority or company. 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.

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

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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

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

Directive 1999/13/EC (VOC) The question whether this product or components thereof has/have to be considered as volatile organic compound/compounds (VOC) as defined by Directive 1999/13/EU can only be answered when detailed knowledge on the use as solvent in connection with certain activities in certain facilities is available.

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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)
China. Inventory of Existing Chemical Substances	INV (CN)	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)
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**decan-1-ol**

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

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

H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Safety datasheet sections which have been updated:

- 9. Physical and chemical properties
- 11. Toxicological information
- 12. Ecological 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

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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	Biocconcentration 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.

decan-1-ol

http://www.sasolgermany.de/fileadmin/doc/productsafety/Annex/CON000000023_EN_01.pdf