

NACOL 6 - 98

Version: 7.12

Revision Date 2019/11/14

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

Trade name	NACOL 6 - 98
REACH No.	01-2119487967-12-0000
Substance name (REACH / CLP)	hexan-1-ol

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

Use	raw material for cosmetic agents raw material for textile auxiliary agents raw material for synthesis processes in the chemical industry raw material for lubricants and lubricant additives raw material for fragrances Solvent raw material for plasticizers Plant protection products
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 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)**

Flammable liquids Category 3	Flammable liquid and vapour.
Acute toxicity Category 4 (Oral)	Harmful if swallowed.
Acute toxicity Category 4 (Dermal)	Harmful in contact with skin.
Eye irritation Category 2	Causes serious eye irritation.

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

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Hazard pictograms



Signal word

Warning

Hazard statements

H226

Flammable liquid and vapour.

H302 + H312

Harmful if swallowed or in contact with skin.

H319

Causes serious eye irritation.

Precautionary statements

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280

Wear protective gloves/ eye protection/ face protection.

P303 + P361 + P353

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P337 + P313

If eye irritation persists: Get medical advice/ attention.

P370 + P378

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

P403 + P235

Store in a well-ventilated place. Keep cool.

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

hexan-1-ol

content: ≥ 90 - ≤ 100 %

component type: Active ingredient

EC-No.: 203-852-3

Index-No.: 603-059-00-6

CAS-No.: 111-27-3

REACH No.: 01-2119487967-12-0000

Substance name (REACH / CLP): hexan-1-ol

Classification (Regulation

Flam. Liq. 3

H226

(EC) No 1272/2008):

Acute Tox. 4 (Oral)

H302

Acute Tox. 4 (Dermal)

H312

Eye Irrit. 2

H319

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

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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	Flush eyes with water as a precaution. If eye irritation persists, consult a specialist.
If swallowed	Do NOT induce vomiting. Call a physician immediately.

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 (CO2)
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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	Wear self-contained breathing apparatus for firefighting if necessary.
Further information	Cool closed containers exposed to fire with water spray.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition.
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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. Avoid contact with skin and eyes.
Advice on protection against fire and explosion	Provide sufficient air exchange and/or exhaust in work rooms. Take measures to prevent the build up of electrostatic charge. Keep product and empty container away from heat and sources of ignition. Vapours may form explosive mixtures with air.
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	Keep tightly closed. Store in original container.
Other data	Stable at normal ambient temperature and pressure.

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: hexan-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	28 mg/kg	based on body weight and day

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	Inhalation, long-term exposure - systemic effects	99 mg/m3	
	dermal, long-term exposure - local effects	0.19 mg/cm2	
	Inhalation, long-term exposure - local effects	210 mg/m3	
Consumers	dermal, Acute/short-term exposure - systemic effects		Not relevant / Not applicable
	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	14 mg/kg	based on body weight and day
	Inhalation, long-term exposure - systemic effects	24.5 mg/m3	
	Oral, long-term exposure - systemic effects	14 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

PREDICTED NO EFFECT CONCENTRATION (PNEC)

Substance name: hexan-1-ol		
Environmental Compartment	Value	Note
Fresh water	0.51 mg/l	
Marine water	0.051 mg/l	
intermittent release	4 mg/l	
Sewage treatment plant	62 mg/l	
Fresh water sediment	2.8 mg/kg	based on dry weight
Marine sediment	0.28 mg/kg	based on dry weight
Soil	0.25 mg/kg	based on dry weight
food		Not relevant / Not applicable
Air		No hazard identified

8.2 Exposure controls

PERSONAL PROTECTIVE EQUIPMENT

Respiratory protection

No personal respiratory protective equipment normally required. In inadequately ventilated areas, where workplace limits are exceeded, where unpleasant odours exist or where 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.

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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

Layer thickness: 0.35 mm

Material: butyl-rubber

Break through time: >= 480 min

Layer thickness: 0.5 mm

gloves suitable for splash protection:

Material: Polychloroprene

Break through time: >= 240 min

Layer thickness: 0.5 mm

unsuitable gloves

Material: Natural rubber/natural latex, 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

Physical state	liquid; 20 °C; 1,013 hPa
Form	liquid
Colour	colourless
Odour	characteristic
Odour Threshold	10 ppm
pH	Not applicable
Pour point	ca. -52 - -49 °C; ISO 3016
Boiling point/boiling range	ca. 155 °C
Flash point	ca. 60 °C; DIN EN ISO 2719
Evaporation rate	No data available
Flammability (solid, gas)	not applicable (liquid)

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Lower explosion limit	ca. 1.30 %(V)
Upper explosion limit	No data available
Vapour pressure	3.64 hPa; 38 °C
Relative vapour density	No data available
Density	ca.0.8 g/cm ³ ; 20 °C; DIN 51757
Water solubility	1.3 g/l; 23 °C
Partition coefficient: n-octanol/water	log Pow: 1.8
Ignition temperature	313 °C; 1,013 hPa
Auto-ignition temperature	not auto-flammable
Viscosity, dynamic	ca. 3.64 mPas; 40 °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 Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions Incompatible with strong acids and 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 acids and oxidizing agents;

10.6 Hazardous decomposition products

Hazardous decomposition products No decomposition if stored normally.

Thermal decomposition To avoid thermal decomposition, do not overheat.

SECTION 11: TOXICOLOGICAL INFORMATION

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11.1 Information on toxicological effects**Acute toxicity**

Acute oral toxicity	Acute toxicity estimate : 500 mg/kg; Calculation method
Acute oral toxicity	hexan-1-ol: LD50 Rat: > 300 - 2,000 mg/kg (literature value) Derived from the classification according to Annex VI of Regulation (EC) 1272/2008. Harmful if swallowed.
Acute inhalation toxicity	hexan-1-ol: LC50 Rat: > 21 mg/l; 1 h (literature value) Based on available data, the classification criteria are not met.
Acute dermal toxicity	Acute toxicity estimate : 1,100 mg/kg; Calculation method
Acute dermal toxicity	hexan-1-ol: LD50 Rabbit: > 1,000 - 2,000 mg/kg; OECD Test Guideline 402 (literature value) Harmful in contact with skin.

Skin corrosion/irritation

Skin irritation	hexan-1-ol: Rabbit: slightly irritating; OECD Test Guideline 404 (literature value) hexan-1-ol: Human: not irritating (literature value) Based on available data, the classification criteria are not met.
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Serious eye damage/eye irritation

Eye irritation	hexan-1-ol: Rabbit: irritating; OECD Test Guideline 405 (literature value) Causes serious eye irritation.
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Respiratory or skin sensitisation

Sensitisation	hexan-1-ol: Draize Test Guinea pig: not sensitizing (literature value) Based on available data, the classification criteria are not met.
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Germ cell mutagenicity

Genotoxicity in vitro	hexan-1-ol: In vitro tests did not show mutagenic effects
Genotoxicity in vivo	hexan-1-ol: In vivo tests did not show mutagenic effects
Remarks	hexan-1-ol: Based on available data, the classification criteria are not met.

Carcinogenicity

Remarks	hexan-1-ol: The substance has been shown to be not genotoxic, therefore it is not expected to have a carcinogenic potential.
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Reproductive toxicity

Reproductive toxicity	hexan-1-ol: Repeated dose toxicity studies gave no indication of adverse effects on
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	reproductive organs.
RemarksReproductive toxicity	hexan-1-ol: Based on available data, the classification criteria are not met.
Teratogenicity	hexan-1-ol: Did not show teratogenic effects in animal experiments.
Remarks-Teratogenicity	hexan-1-ol: Based on available data, the classification criteria are not met.
STOT - single exposure	
Remarks	hexan-1-ol: The substance or mixture is not classified as specific target organ toxicant, single exposure.
STOT - repeated exposure	
Remarks	hexan-1-ol: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Repeated dose toxicity	hexan-1-ol: Rat; Oral; Subchronic toxicity NOAEL: 1,127 mg/kg (based on body weight and day) (literature value)
	hexan-1-ol: Rat; Dermal; Subchronic toxicity NOAEL: 1,000 mg/kg (based on body weight and day); OECD Test Guideline 411 (literature value) Category approach
Aspiration hazard	
Aspiration toxicity	hexan-1-ol: Not applicable
Toxicological information	hexan-1-ol: The substance is metabolised and excreted.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	hexan-1-ol: LC50 (96 h) Pimephales promelas (fathead minnow): > 10 - 100 mg/l ; flow-through test; US EPA 1975 (literature value)
Toxicity to fish - Chronic toxicity	hexan-1-ol: The study is not necessary.
Toxicity to daphnia and other aquatic invertebrates	hexan-1-ol: EC0 (24 h) Daphnia magna (Water flea): > 100 mg/l ; Immobilization; OECD Test Guideline 202 (literature value)
Toxicity to daphnia and other aquatic invertebrates - Chronic toxicity	hexan-1-ol: NOEC (21 d) : > 1 - 10 mg/l; reproduction rate; calculated Structure-activity relationship (SAR)

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Toxicity to aquatic plants	hexan-1-ol: ErC50 Pseudokirchneriella subcapitata (green algae): > 10 - 100 mg/l ; static test; OECD Test Guideline 201; (literature value)
Toxicity to bacteria	hexan-1-ol: 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	hexan-1-ol: The study is not necessary. exposure considerations
Toxicity to terrestrial flora	hexan-1-ol: The study is not necessary. exposure considerations
Toxicity for other terrestrial non-mammalian fauna	hexan-1-ol: Studies on birds do not need to be conducted due to large mammalian dataset.
12.2 Persistence and degradability	
Biodegradability	hexan-1-ol: Readily biodegradable.; > 60 %; 30 d; aerobic; OECD Test Guideline 301D (literature value)
12.3 Bioaccumulative potential	
Bioaccumulation	hexan-1-ol: Bioaccumulation is unlikely.
12.4 Mobility in soil	
Mobility	hexan-1-ol: Adsorption/Soil; Koc: 56; log Koc: 1.75; calculated Mobile in soils
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.
Results of PBT assessment	hexan-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	hexan-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 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.



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SECTION 14: TRANSPORT INFORMATION

14.1 UN number

ADR	2282
RID	2282
ADN	2282
IMDG	2282
ICAO/IATA	2282

14.2 Proper shipping name

ADR	HEXANOLS
RID	HEXANOLS
ADN	HEXANOLS
IMDG	HEXANOLS
ICAO/IATA	HEXANOLS

14.3 Transport hazard class

ADR	3
RID	3
ADN	3
IMDG	3
ICAO/IATA	3

14.4 Packing group

ADR	III
RID	III
ADN	III
IMDG	III
ICAO/IATA	III

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

ADR	Hazard Identification Number	30
	Labels	3
	Tunnel restriction code	(D/E)
IMDG	Labels	3
	EmS Number 1	F-E
	EmS Number 2	S-D
ICAO/IATA	Labels	3

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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:: FLAMMABLE LIQUIDS; P5c
Qualifying quantity 1: 5,000 t; Qualifying quantity 2: 50,000 t;

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.

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

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hexan-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.**

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H319	Causes serious eye irritation.

Safety datasheet sections which have been updated:

- 6. Accidental release measures
- 7. Handling and storage
- 8. Exposure controls/personal protection
- 11. Toxicological information
- 12. Ecological information
- 2. Hazards identification
- 3. Composition/information on ingredients
- 7. Handling and storage
- 8. Exposure controls/personal protection
- 9. Physical and chemical properties
- 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

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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.

hexan-1-ol

http://www.sasolgermany.de/fileadmin/doc/productsafety/Annex/000000015305_EN_01.pdf
