

**HEXENE-1**

Version: 4.06

Revision Date 2018/09/13

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

Trade name	Hexene-1
REACH No.	01-2119946487-24-0000
Substance name (REACH / CLP)	hex-1-ene

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

Use	Industrial use
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	solvents.germany.msds@de.sasol.com

**1.4 Emergency telephone number**

Emergency telephone number	+44 (0)1235 239 670 (Europe, Israel, Africa, Americas) +44 (0)1235 239 671 (Middle East, Arabic African countries) +65 3158 1074 (Asia Pacific) +86 10 5100 3039 (China) +27 (0)17 610 4444 (South Africa) +61 (2)8014 4558 (Australia)
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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 2	Highly flammable liquid and vapour.
Aspiration hazard Category 1	May be fatal if swallowed and enters airways.

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

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**Hazard pictograms****Signal word**

Danger

**Hazard statements**

H225

Highly flammable liquid and vapour.

H304

May be fatal if swallowed and enters airways.

**Precautionary statements**

P210

Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P243

Take precautionary measures against static discharge.

P301 + P310

IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P331

Do NOT induce vomiting.

P403 + P235

Store in a well-ventilated place. Keep cool.

**Supplemental Hazard Statements**

EUH066

Repeated exposure may cause skin dryness or cracking.

**2.3 Other hazards**

No information available.

**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****Hex-1-ene****component type:** Active ingredient**EC-No.:** 209-753-1**Index-No.:****CAS-No.:** 592-41-6**REACH No.:** 01-2119946487-24-0000**Classification (Regulation  
(EC) No 1272/2008):**Flam. Liq. 2  
Asp. Tox. 1H225  
H304

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 contaminated clothing and shoes immediately.

**If inhaled**

Bring the person into the fresh air and let rest undisturbed. Monitor breathing, give

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	oxygen if necessary. Call a physician immediately.
<b>In case of skin contact</b>	Wash off immediately with plenty of water. If skin irritation persists, call a physician.
<b>In case of eye contact</b>	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Seek medical advice.
<b>If swallowed</b>	Do NOT induce vomiting. If a person vomits when lying on his back, place him in the recovery position. Call a physician immediately.

**4.2 Most important symptoms and effects, both acute and delayed****Most important symptoms and effects, both acute and delayed**

Risks: irritant effects Risk of serious damage to the lungs (by aspiration).

**4.3 Indication of any immediate medical attention and special treatment needed****Indication of any immediate medical attention and special treatment needed**

Treatment: For specialist advice physicians should contact the Poisons Information Service.

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**SECTION 5: FIREFIGHTING MEASURES**

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**5.1 Extinguishing media****Suitable extinguishing media** Dry powder, Carbon dioxide (CO<sub>2</sub>), Water spray, Alcohol-resistant foam**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** In the event of fire, wear self-contained breathing apparatus.**Further information** Cool containers/tanks with water spray.

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**SECTION 6: ACCIDENTAL RELEASE MEASURES**

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**6.1 Personal precautions, protective equipment and emergency procedures****Personal precautions** Ensure adequate ventilation. Do not breathe vapours or spray mist. Keep away from sources of ignition - No smoking.**6.2 Environmental precautions****Environmental precautions** Do not allow material to contaminate ground water system.  
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). The material taken up must be disposed of in accordance with regulations.**6.4 Reference to other sections**

For personal protection see section 8.

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**SECTION 7: HANDLING AND STORAGE**

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**7.1 Precautions for safe handling**

<b>Advice on safe handling</b>	Vapours are heavier than air and may spread along floors. Ensure adequate ventilation. Avoid formation of aerosol. Keep away from sources of ignition - No smoking.
<b>Advice on protection against fire and explosion</b>	Do not allow to enter drains (danger of explosion). Keep away from sources of ignition - No smoking. Use only explosion-proof equipment. Take precautionary measures against static discharges. Vapours may form explosive mixtures with air.
<b>Temperature class</b>	T3
<b>Fire-fighting class</b>	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**

<b>Requirements for storage areas and containers</b>	Keep tightly closed in a dry, cool and well-ventilated place. Protect against light.
<b>Advice on common storage</b>	Keep away from oxidizing agents and strongly acid or alkaline materials.
<b>Storage class (TRGS 510)</b>	3: Flammable Liquids
<b>container material</b>	suitable materials: Stainless steel

**7.3 Specific end use(s)**

<b>Specific use(s)</b>	Consult the technical guidelines for the use of this substance/mixture.
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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**8.1 Control parameters****COMPONENTS WITH WORKPLACE CONTROL PARAMETERS****National occupational exposure limits**

No data available

**EUROPEAN OCCUPATIONAL EXPOSURE LIMITS**

No data available

**8.2 Exposure controls****PERSONAL PROTECTIVE EQUIPMENT**

<b>Respiratory protection</b>	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 AX filter or appropriate combined filter (e.g. where aerosols are in use, or smoke and mist occur, AX-P2 or AX-P3), in compliance with EN 371.
<b>Hand protection</b>	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

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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  
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

**unsuitable gloves**

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

<b>Eye protection</b>	Tightly fitting safety goggles
<b>Skin and body protection</b>	Rubber or plastic apron
<b>Hygiene measures</b>	Take off all contaminated clothing immediately.
<b>Protective measures</b>	Do not breathe vapours or spray mist. Avoid contact with the skin and the eyes.

**ENVIRONMENTAL EXPOSURE CONTROLS**

<b>General advice</b>	Do not allow material to contaminate ground water system. 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**

<b>Physical state</b>	liquid; 20 °C; 1,013 hPa
<b>Form</b>	liquid
<b>Colour</b>	colourless
<b>Odour</b>	mild, pleasant
<b>Odour Threshold</b>	No valid method available
<b>pH</b>	Not applicable
<b>Melting point/range</b>	-139.9 °C
<b>Boiling point/boiling range</b>	64 °C
<b>Flash point</b>	-25 °C
<b>Evaporation rate</b>	No data available
<b>Flammability (solid, gas)</b>	not applicable (liquid)
<b>Lower explosion limit</b>	1.2 %(V)

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Upper explosion limit	7 %(V)
Vapour pressure	202 hPa; 20 °C 249 hPa; 25 °C 413 hPa; 38 °C
Relative vapour density	3.0
Density	0.674 g/cm <sup>3</sup> ; 20 °C
Water solubility	0.047 g/l; 20 °C
Partition coefficient: n-octanol/water	Pow: 3.87
Ignition temperature	265 °C
Auto-ignition temperature	285 °C
Viscosity, dynamic	0.252 mPas; 25 °C
Viscosity, kinematic	0.412 mm <sup>2</sup> /s; 20 °C 0.356 mm <sup>2</sup> /s; 40 °C
Explosive properties	No data available
Oxidizing properties	No data available

**9.2 Other data**

None known.

**SECTION 10: STABILITY AND REACTIVITY**

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**10.1 Reactivity**

<b>Note</b>	Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.
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**10.2 Chemical stability**

<b>Note</b>	No decomposition if stored and applied as directed.
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**10.3 Possibility of hazardous reactions**

<b>Hazardous reactions</b>	Vapours may form explosive mixture with air.
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**10.4 Conditions to avoid**

<b>Conditions to avoid</b>	Heat, flames and sparks.
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**10.5 Incompatible materials to avoid**

<b>Materials to avoid</b>	Oxidizing agents; Acids
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**10.6 Hazardous decomposition products**

<b>Hazardous decomposition products formed under fire conditions.</b>	No decomposition if stored and applied as directed.
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<b>Thermal decomposition</b>	No decomposition if used as directed. Distills without decomposition at atmospheric pressure.
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**SECTION 11: TOXICOLOGICAL INFORMATION**

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

Hex-1-ene:  
LD50 Rat: > 5,000 mg/kg  
(literature value)  
Based on available data, the classification criteria are not met.

**Acute inhalation toxicity**

Hex-1-ene:  
LC50 Rat: 110.1 mg/l; 4 h  
Test atmosphere: vapour  
(literature value)  
Based on available data, the classification criteria are not met.

**Acute dermal toxicity**

Hex-1-ene:  
LD50 Rabbit: > 2,000 mg/kg;  
(literature value)  
Based on available data, the classification criteria are not met.

**Skin corrosion/irritation****Skin irritation**

Hex-1-ene:  
Rabbit: slightly irritating  
(literature value)  
Based on available data, the classification criteria are not met.

**Serious eye damage/eye irritation****Eye irritation**

Hex-1-ene:  
Rabbit: slightly irritating  
(literature value)  
Based on available data, the classification criteria are not met.

**Respiratory or skin sensitisation****Sensitisation**

Hex-1-ene:  
Buehler Test Guinea pig: not sensitizing; OECD Test Guideline 406  
(literature value)  
Based on available data, the classification criteria are not met.

**Germ cell mutagenicity****Genotoxicity in vitro**

Hex-1-ene:  
In vitro tests did not show mutagenic effects  
(literature value)

**Genotoxicity in vivo**

Hex-1-ene:  
In vivo tests did not show mutagenic effects  
(literature value)

**Remarks**

Hex-1-ene:  
Based on available data, the classification criteria are not met.

**Carcinogenicity****Remarks**

Hex-1-ene:  
The substance has been shown to be not genotoxic, therefore it is not expected to have a carcinogenic potential.

**Reproductive toxicity****Reproductive toxicity**

Hex-1-ene:  
Rat; Oral; OECD Test Guideline 421  
Animal testing did not show any effects on fertility.  
(literature value)

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<b>Remarks</b>	<b>Reproductive toxicity</b>	Hex-1-ene: Based on available data, the classification criteria are not met.
	<b>Teratogenicity</b>	Hex-1-ene: Testing proposal OECD Test Guideline 414
<b>STOT - single exposure</b>		
	<b>Remarks</b>	Hex-1-ene: The substance or mixture is not classified as specific target organ toxicant, single exposure.
<b>STOT - repeated exposure</b>		
	<b>Remarks</b>	Hex-1-ene: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
	<b>Repeated dose toxicity</b>	Hex-1-ene: Rat; Oral; Subacute toxicity NOAEL: 1,010 mg/kg (based on body weight and day) (literature value)  Hex-1-ene: Rat; Oral; 42 - 51 d NOAEL: 1,000 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: Tetradec-1-ene  Hex-1-ene: Rat; inhalation (vapour); Subchronic toxicity; NOAEC: 3000 ppm; OECD Test Guideline 413 (literature value)
<b>Aspiration hazard</b>		
	<b>Aspiration toxicity</b>	Hex-1-ene: May be fatal if swallowed and enters airways.
	<b>Toxicological information</b>	Hex-1-ene: Toxicokinetics The substance is metabolised.  Hex-1-ene: Neurotoxicity The substance is not likely to cause neurotoxicity.

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

<b>Toxicity to fish</b>	Hex-1-ene: LC50 (96 h) <i>Oncorhynchus mykiss</i> (rainbow trout): > 1 - 10 mg/l ; semi-static test; OECD Test Guideline 203 (literature value)
<b>Toxicity to daphnia and other aquatic invertebrates</b>	Hex-1-ene: EC50 (48 h) <i>Daphnia magna</i> (Water flea): > 1 - 10 mg/l ; static test; OECD Test Guideline 202



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	(literature value)
<b>Toxicity to aquatic plants</b>	Hex-1-ene: EC50 (96 h) <i>Pseudokirchneriella subcapitata</i> (green algae): > 1 - 10 mg/l ; Growth rate; static test; OECD Test Guideline 201; (literature value)
	Hex-1-ene: NOEC (96 h) <i>Pseudokirchneriella subcapitata</i> (green algae): 1.8 mg/l ; Growth rate; static test; OECD Test Guideline 201; (literature value)
<b>Toxicity to soil dwelling organisms</b>	Hex-1-ene: The study is not necessary. Readily biodegradable. The substance does not pose a chronic hazard to soil organisms.
<b>Toxicity to terrestrial flora</b>	Hex-1-ene: The study is not necessary. Readily biodegradable. The substance does not pose a chronic hazard to soil organisms.
<b>Toxicity for other terrestrial non-mammalian fauna</b>	Hex-1-ene: study scientifically unjustified Studies on birds do not need to be conducted due to large mammalian dataset.
<b>12.2 Persistence and degradability</b>	
<b>Biodegradability</b>	Hex-1-ene: Readily biodegradable.; > 60 %; 28 d; aerobic; OECD Test Guideline 301C (literature value)
<b>12.3 Bioaccumulative potential</b>	
<b>Bioaccumulation</b>	Hex-1-ene: Bioconcentration factor (BCF): 2.22 - 2.59; calculated Does not bioaccumulate. (literature value)
<b>12.4 Mobility in soil</b>	
<b>Mobility</b>	Hex-1-ene: Adsorption/Soil; log Koc: 3.23; QSAR (literature value) Slightly mobile in soils
<b>12.5 Results of PBT and vPvB assessment</b>	
<b>Results of PBT assessment</b>	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.
<b>Results of PBT assessment</b>	Hex-1-ene: 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).
<b>12.6 Other adverse effects</b>	
<b>General advice</b>	Hex-1-ene: None known.

**SECTION 13: DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

<b>Product</b>	Following pre-treatment and observing the regulations for hazardous wastes, it
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	must be taken to a permitted hazardous wastes landfill or hazardous wastes incinerator.
<b>Contaminated packaging</b>	Contaminated packaging should be emptied optimally and after being suitably cleaned returned for re-use.
<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.

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

ADR	2370
RID	2370
ADN	2370
IMDG	2370
ICAO/IATA	2370

**14.2 Proper shipping name**

ADR	1-HEXENE
RID	1-HEXENE
ADN	1-HEXENE
IMDG	1-HEXENE
ICAO/IATA	1-HEXENE

**14.3 Transport hazard class**

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

**14.4 Packing group**

ADR	II
RID	II
ADN	II
IMDG	II
ICAO/IATA	II

**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	33
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<b>IMDG</b>	Labels	3
	Tunnel restriction code	(D/E)
	Labels	3
	EmS Number 1	F-E
	EmS Number 2	S-D
<b>ICAO/IATA</b>	Labels	3

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

Ship type	3
Pollution category	Y

**SECTION 15: REGULATORY INFORMATION**

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

<b>Occupational restrictions</b>	Employment restrictions for children and young workers in accordance with Directive 94/33/EC and the respective national provisions are to be observed.
	Employment restrictions for pregnant workers, workers who have recently given birth and nursing mothers in accordance with Directive 92/85/EEC and the respective national provisions are to be observed.
<b>Occupational restrictions</b>	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**

<b>Legislation on the control of major-accident hazards involving dangerous substances</b>	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;

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**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****Hex-1-ene**

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.**

H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.

**Safety datasheet sections which have been updated:**

1. Identification of the substance/mixture and of the company/undertaking
2. Hazards identification
5. Firefighting measures
6. Accidental release measures

**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

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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)
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

**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.

[http://www.sasolgermany.de/fileadmin/doc/productsafety/Annex/000000005136\\_EN\\_01.pdf](http://www.sasolgermany.de/fileadmin/doc/productsafety/Annex/000000005136_EN_01.pdf)