

ACETONE EP

Version: 10.00

Revision Date 23.03.2017

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

Trade name	Acetone EP
REACH No.	01-2119471330-49-0015
Substance name (REACH / CLP)	Acetone

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

Use	raw material for photochemicals raw material for cleaning agents and disinfectants raw material for printing inks and printing ink additives Solvent Industrial use
Uses advised against	

1.3 Details of the supplier of the safety data sheet

Company	Sasol Chemie GmbH & Co. KG 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	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.
Eye irritation Category 2	Causes serious eye irritation.
Specific target organ toxicity - single exposure Category 3 (Central nervous system)	May cause drowsiness or dizziness.

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2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal word

Danger

Hazard statements

H225

Highly flammable liquid and vapour.

H319

Causes serious eye irritation.

H336

May cause drowsiness or dizziness.

Precautionary statements

P243

Take precautionary measures against static discharge.

P303 + P361 + P353

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

P304 + P340

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313

If eye irritation persists: Get medical advice/ attention.

P403 + P233

Store in a well-ventilated place. Keep container tightly closed.

Supplemental Hazard Statements

EUH066

Repeated exposure may cause skin dryness or cracking.

2.3 Other hazards

Vapours may form explosive mixture with air.

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

acetone; propan-2-one; propanone

content: <= 100 %

component type: Active ingredient

EC-No.: 200-662-2

Index-No.: 606-001-00-8

CAS-No.: 67-64-1

REACH No.: 01-2119471330-49-0015

Substance name (REACH / CLP): Acetone

Classification (Regulation (EC) No 1272/2008):

Flam. Liq. 2

H225

Eye Irrit. 2

H319

STOT SE 3

H336

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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.
In case of skin contact	Wash off immediately with plenty of water.
In case of eye contact	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
If swallowed	Obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Most important symptoms and effects, both acute and delayed	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: For specialist advice physicians should contact the Poisons Information Service.
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SECTION 5: FIREFIGHTING MEASURES**5.1 Extinguishing media**

Suitable extinguishing media	Alcohol-resistant foam, Dry powder, Water spray, Carbon dioxide (CO2) in enclosed spaces
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5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting	When fighting fires in enclosed spaces: caution, danger of suffocation! Flash back possible over considerable distance. Vapours may form explosive mixtures with air.
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5.3 Advice for firefighters

Special protective equipment for firefighters	Wear self-contained breathing apparatus and protective suit.
Further information	Cool containers/tanks with water spray.

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions	Ensure adequate ventilation. Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing.
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6.2 Environmental precautions

Environmental precautions	Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water 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). The material taken up must be disposed of in accordance with regulations.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling Ensure adequate ventilation.
Vapours are heavier than air and may spread along floors.
Avoid formation of aerosol.

Advice on protection against fire and explosion Do not allow to enter drains (danger of explosion).
Use only explosion-proof equipment.
Take precautionary measures against static discharges.
Vapours may form explosive mixtures with air.
Keep away from sources of ignition - No smoking.

Temperature class T1

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 in a dry, cool and well-ventilated place.

Storage class (TRGS 510) 3: Flammable Liquids

7.3 Specific end use(s)

Specific use(s) Consult the technical guidelines for the use of this substance/mixture.

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
ACETONE	TWA TWA	1.210 mg/m ³ 500 ppm	2007 2007	Ireland Exposure Limit Values List
	Indicative OELV			

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EUROPEAN OCCUPATIONAL EXPOSURE LIMITS

Control parameters / Substance name	Typ	Control parameters	Update	Basis
ACETONE	TWA TWA	1.210 mg/m ³ 500 ppm	02 2006 02 2006	EU Exposure Limit Values
ACETONE	TWA TWA	1.210 mg/m ³ 500 ppm	2014 2014	EU SCOELS
ACETONE	STEL STEL	2.420 mg/m ³ 1.000 ppm	2014 2014	EU SCOELS

DERIVED NO EFFECT LEVEL (DNEL)

Substance name: Acetone			
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	2420 mg/m ³	
	dermal, long-term exposure - systemic effects	186 mg/kg Body weight/day	
	Inhalation, long-term exposure - systemic effects	1210 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		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	62 mg/kg Body weight/day	
	Inhalation, long-term exposure - systemic effects	200 mg/m ³	
	Oral, long-term exposure - systemic effects	62 mg/kg Body weight/day	
dermal, long-term exposure - local effects		Not relevant / not applicable	

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	Inhalation, long-term exposure - local effects		Not relevant / not applicable
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PREDICTED NO EFFECT CONCENTRATION (PNEC)

Substance name: Acetone		
Environmental Compartment	Value	Note
Fresh water	10,6 mg/l	
Marine water	1,06 mg/l	
intermittent release	21 mg/l	
treatment plant	100 mg/l	
Fresh water sediment	30,4 mg/kg	based on dry weight
Marine sediment	3,04 mg/kg	based on dry weight
Soil	29,5 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 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-P3), in compliance with EN 371.
Hand protection	<p>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).</p> <p>gloves suitable for splash protection: Material: butyl-rubber Break through time: >= 240 min Layer thickness: 0,5 mm</p> <p>unsuitable gloves Material: Natural rubber/natural latex, Polychloroprene, Fluorinated rubber, Nitrile rubber/nitrile latex, Polyvinylchloride</p>
Eye protection	Tightly fitting safety goggles
Skin and body protection	Wear suitable protective equipment.
Hygiene measures	Take off all contaminated clothing immediately.
Protective measures	Do not breathe vapours or spray mist. Avoid contact with the skin and the eyes.

ENVIRONMENTAL EXPOSURE CONTROLS

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General advice

Do not flush into surface water or sanitary sewer system.
Do not allow material to contaminate ground water 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, acetone-like
Odour Threshold	No valid method available
pH	Not applicable
Melting point/range	-94,7 °C; 1.013 hPa
Boiling point/boiling range	56,05 °C; 1.013 hPa
Flash point	-17 °C; 1.013 hPa; closed cup
Evaporation rate	No data available
Flammability (solid, gas)	not applicable (liquid)
Lower explosion limit	2,5 %(V)
Upper explosion limit	13,0 %(V)
Vapour pressure	240 hPa; 20 °C
Relative vapour density	> 1
Density	0,79 g/cm ³ ; 20 °C
Water solubility	20 °C; completely miscible
Partition coefficient: n-octanol/water	log Pow: -0,24; 20 °C
Ignition temperature	No data available
Auto-ignition temperature	465 °C; 1.013 hPa
Viscosity, dynamic	0,32 mPas; 20 °C
Explosive properties	Not explosive
Oxidizing properties	not expected based on structure and functional groups

9.2 Other data

Additional advice	no data
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SECTION 10: STABILITY AND REACTIVITY**10.1 Reactivity**

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Note	Vapours may form explosive mixture with air.
10.2 Chemical stability	
Note	No data available
10.3 Possibility of hazardous reactions	
Hazardous reactions	May form explosive peroxides.
10.4 Conditions to avoid	
Conditions to avoid	Extremes of temperature and direct sunlight.
10.5 Incompatible materials to avoid	
Materials to avoid	Oxidizing agents;
10.6 Hazardous decomposition products	
Hazardous decomposition products	None known.
Thermal decomposition	Distils without decomposition at atmospheric pressure.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects**Acute toxicity**

Acute oral toxicity	acetone; propan-2-one; propanone: LD50 Rat: > 5.000 mg/kg (literature value) Based on available data, the classification criteria are not met.
Acute inhalation toxicity	acetone; propan-2-one; propanone: LC50 Rat: > 20 mg/l; 4 h (literature value) Based on available data, the classification criteria are not met.
Acute dermal toxicity	acetone; propan-2-one; propanone: LD50 Rabbit: > 5.000 mg/kg; (literature value) Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Skin irritation	acetone; propan-2-one; propanone: Rabbit: 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	acetone; propan-2-one; propanone: Rabbit: irritating; OECD Test Guideline 405 (literature value) Causes serious eye irritation.
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Respiratory or skin sensitisation

Sensitisation	acetone; propan-2-one; propanone: Maximisation Test Guinea pig: not sensitizing
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	(literature value) Based on available data, the classification criteria are not met.
Germ cell mutagenicity	
Genotoxicity in vitro	acetone; propan-2-one; propanone: In vitro tests did not show mutagenic effects
Genotoxicity in vivo	acetone; propan-2-one; propanone: In vivo tests did not show mutagenic effects
Remarks	acetone; propan-2-one; propanone: Based on available data, the classification criteria are not met.
Carcinogenicity	
Carcinogenicity	acetone; propan-2-one; propanone: The substance has been shown to be not genotoxic, therefore it is not expected to have a carcinogenic potential.
Reproductive toxicity	
RemarksReproductive toxicity	acetone; propan-2-one; propanone: Based on available data, the classification criteria are not met.
Remarks-Teratogenicity	acetone; propan-2-one; propanone: Based on available data, the classification criteria are not met.
STOT - single exposure	
Remarks	acetone; propan-2-one; propanone: Inhalation May cause drowsiness or dizziness.
STOT - repeated exposure	
Remarks	acetone; propan-2-one; propanone: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Repeated dose toxicity	acetone; propan-2-one; propanone: Rat; drinking water; Subchronic toxicity NOAEL: 900 mg/kg (based on body weight and day) LOAEL: 1.700 mg/kg (based on body weight and day); OECD Test Guideline 408 Target Organs: spleen, Kidney, blood-forming organs (literature value)
Aspiration hazard	
Aspiration toxicity	acetone; propan-2-one; propanone: Not applicable
Human experience	acetone; propan-2-one; propanone: Repeated exposure may cause skin dryness or cracking.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	acetone; propan-2-one; propanone: LC50 (96 h) Oncorhynchus mykiss (rainbow trout): > 100 mg/l ; static test (literature value)
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Toxicity to fish - Chronic toxicity	acetone; propan-2-one; propanone: No data available
Toxicity to daphnia and other aquatic invertebrates	acetone; propan-2-one; propanone: EC50 (48 h) Daphnia pulex (Water flea): > 100 mg/l ; static test (literature value)
Toxicity to daphnia and other aquatic invertebrates - Chronic toxicity	acetone; propan-2-one; propanone: EC10 (28 d) Daphnia magna (Water flea): 2.212 mg/l; reproduction rate; flow-through test; OECD Test Guideline 211; (literature value)
Toxicity to aquatic plants	acetone; propan-2-one; propanone: EC10 (8 d) Microcystis aeruginosa: > 100 mg/l ; static test; DIN 38412; (literature value)
Toxicity to bacteria	acetone; propan-2-one; propanone: EC10 (30 min) activated sludge of a predominantly domestic sewage: 1.000 mg/l; Respiration inhibition; OECD Test Guideline 209 (literature value)
Toxicity to soil dwelling organisms	acetone; propan-2-one; propanone: LC50 (48 h) Eisenia foetida: 0,1 - 1 mg/cm2; mortality; OECD Test Guideline 207 (literature value)
Toxicity to terrestrial flora	acetone; propan-2-one; propanone: study scientifically unjustified Justification: Readily biodegradable. (literature value)
Toxicity for other terrestrial non-mammalian fauna	acetone; propan-2-one; propanone: study scientifically unjustified Justification: Readily biodegradable. (literature value)
12.2 Persistence and degradability	
Biodegradability	acetone; propan-2-one; propanone: Readily biodegradable.; > 60 %; 28 d; OECD Test Guideline 301B (literature value)
12.3 Bioaccumulative potential	
Bioaccumulation	acetone; propan-2-one; propanone: Bioconcentration factor (BCF): 3; calculated No bioaccumulation is to be expected (log Pow <= 4). (literature value)
12.4 Mobility in soil	
Mobility	acetone; propan-2-one; propanone: Adsorption/Soil Highly mobile in soils low potential for absorption (literature value)
12.5 Results of PBT and vPvB assessment	
Results of PBT assessment	acetone; propan-2-one; propanone: Based on available data, the classification criteria are not met.
12.6 Other adverse effects	
General advice	acetone; propan-2-one; propanone: None known.

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SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

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

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

ADR	1090
RID	1090
ADN	1090
IMDG	1090
ICAO/IATA	1090

14.2 Proper shipping name

ADR	ACETONE
RID	ACETONE
ADN	ACETONE
IMDG	ACETONE
ICAO/IATA	ACETONE

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

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IMDG	Marine pollutant	no
ICAO/IATA	Environmentally hazardous	no

14.6 Special precautions for user

ADR	Hazard Identification Number	33
	Labels	3
	Tunnel restriction code	(D/E)
IMDG	Labels 3	
	EmS Number 1	F-E
	EmS Number 2	S-D
ICAO/IATA	Labels	3

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;

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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

Acetone

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.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

Further information:

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

Key or legend to abbreviations and acronyms used in the safety data sheet

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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

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/000000015946_EN_01.pdf
