

LINPAR 15

Version: 1.01

Revision Date 04.07.2018

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name	LINPAR 15
REACH No.	01-2119977102-41-0000
Substance name (REACH / CLP)	Pentadecane

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

Use	Industrial use raw material for synthesis processes in the chemical industry
Uses advised against	Solvent

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)**

Aspiration hazard Category 1	May be fatal if swallowed and enters airways.
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2.2 Label elements**Labelling (REGULATION (EC) No 1272/2008)****Hazard pictograms**

Signal word	Danger
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Hazard statements

LINPAR 15

Version: 1.01

Revision Date 04.07.2018

H304	May be fatal if swallowed and enters airways.
Precautionary statements	
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331	Do NOT induce vomiting.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.
Supplemental Hazard Statements	
EUH066	Repeated exposure may cause skin dryness or cracking.

2.3 Other hazards

No hazards to be specially mentioned.

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

Pentadecane

content: >= 82 %	component type: Active ingredient
EC-No.: 211-098-1	Index-No.:
REACH No.: 01-2119977102-41-0000	CAS-No.: 629-62-9
Substance name (REACH / CLP): pentadecane	
Classification (Regulation (EC) No 1272/2008):	Asp. Tox. 1 H304

Hexadecane

content: <= 9 %	component type: Impurity
EC-No.: 208-878-9	Index-No.:
Classification (Regulation (EC) No 1272/2008):	Asp. Tox. 1 H304
	CAS-No.: 544-76-3

Tetradecane

content: <= 9 %	component type: Impurity
EC-No.: 211-096-0	Index-No.:
Classification (Regulation (EC) No 1272/2008):	Asp. Tox. 1 H304
	CAS-No.: 629-59-4

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: FIRST AID MEASURES

LINPAR 15

Version: 1.01

Revision Date 04.07.2018

4.1 Description of first aid measures

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	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	If swallowed, seek medical advice immediately and show this container or label. If swallowed, DO NOT induce vomiting.

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: Do not induce vomiting: contains petroleum distillates and/or aromatic solvents.
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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	Standard procedure for chemical fires. Use water spray to cool unopened containers.

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
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LINPAR 15

Version: 1.01

Revision Date 04.07.2018

binder, sawdust).

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	Wear personal protective equipment. Avoid contact with skin and eyes.
Advice on protection against fire and explosion	Keep away from open flames, hot surfaces and sources of ignition. Normal measures for preventive fire protection.
Fire-fighting class	B: Fires involving liquids or liquid containing substances. Also includes substances which become liquid at elevated temperatures.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers	Store in original container. Keep container tightly closed.
Storage class (TRGS 510)	10: Combustible liquids not in Storage Class 3
Other data	Stable at normal ambient temperature and pressure.
container material	suitable materials: Steel

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

Contains no substances with occupational exposure limit values.

EUROPEAN OCCUPATIONAL EXPOSURE LIMITS

Contains no substances with occupational exposure limit values.

DERIVED NO EFFECT LEVEL (DNEL)

Substance name: pentadecane			
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		Not relevant / not applicable

LINPAR 15

Version: 1.01

Revision Date 04.07.2018

	effects		
	Inhalation, Acute/short-term exposure - local effects		Not relevant / not applicable
	dermal, long-term exposure - systemic effects		Not relevant / not applicable
	Inhalation, long-term exposure - systemic effects		Not relevant / not applicable
	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		Not relevant / not applicable
	Inhalation, long-term exposure - systemic effects		Not relevant / not applicable
	Oral, long-term exposure - systemic effects		Not relevant / not applicable
	dermal, long-term exposure - local effects		Not relevant / not applicable
	Inhalation, long-term exposure - local effects		Not relevant / not applicable

Substance name: Tetradecane

Not relevant / not applicable

Substance name: Hexadecane

Not relevant / not applicable

LINPAR 15

Version: 1.01

Revision Date 04.07.2018

PREDICTED NO EFFECT CONCENTRATION (PNEC)

Substance name: pentadecane		
Environmental Compartment	Value	Note
Fresh water		Not relevant / not applicable
Marine water		Not relevant / not applicable
intermittent release		Not relevant / not applicable
treatment plant		Not relevant / not applicable
Fresh water sediment		Not relevant / not applicable
Marine sediment		Not relevant / not applicable
Soil		Not relevant / not applicable
food		Not relevant / not applicable

Substance name: Tetradecane

Not relevant / not applicable

Substance name: Hexadecane

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 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: >= 480 min
Layer thickness: 0,4 mm

gloves suitable for splash protection:

Material: Nitrile rubber/nitrile latex
Break through time: >= 240 min
Layer thickness: 0,35 mm

unsuitable gloves

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

LINPAR 15

Version: 1.01

Revision Date 04.07.2018

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	clear, colourless
Odour	odourless
Odour Threshold	No data available
pH	Not applicable, Justification:, insoluble
Pour point	min. 10 °C
Boiling point/boiling range	260 - 270 °C; 1.013 hPa
Flash point	min. 200 °C; 1.013 hPa
Evaporation rate	No data available
Flammability (solid, gas)	not applicable (liquid)
Lower explosion limit	No data available
Upper explosion limit	No data available
Vapour pressure	0,01 hPa; 25 °C
Relative vapour density	No data available
Density	max.0,76 - 0,78 g/cm ³ ; 15 °C
Relative density	No data available
Bulk density	No data available
Solubility in other solvents	Medium: Hydrocarbons; 20 °C; soluble
Water solubility	20 °C; 1.013 hPa; insoluble
Partition coefficient: n-octanol/water	Pow: > 4
Ignition temperature	No data available
Auto-ignition temperature	min. 200 °C
Viscosity, kinematic	2,0 - 4,0 mm ² /s; 25 °C
Explosive properties	Not explosive

LINPAR 15

Version: 1.01

Revision Date 04.07.2018

Oxidizing properties	The substance or mixture is not classified as oxidizing.
Surface tension	26 - 27 mN/m; 25 °C

9.2 Other data

None known.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Note	Stable under recommended storage conditions.
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10.2 Chemical stability

Note	Stable under normal conditions.
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10.3 Possibility of hazardous reactions

Hazardous reactions	Heating can release hazardous gases. Vapours may form explosive mixture with air.
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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 oxidizing agents;
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10.6 Hazardous decomposition products

Hazardous decomposition products	No decomposition if stored normally.
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SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects**Acute toxicity**

Acute oral toxicity	Pentadecane: LD50 Rat: > 5.000 mg/kg; OECD Test Guideline 401 (literature value) Category approach Based on available data, the classification criteria are not met.
Acute inhalation toxicity	Pentadecane: LC50 Rat: > 5 mg/l; 4 h; OECD Test Guideline 403 Test atmosphere: dust/mist Category approach (literature value) Based on available data, the classification criteria are not met.
Acute dermal toxicity	Pentadecane: LD50 Rat: > 2.000 mg/kg; OECD Test Guideline 402 (literature value) Category approach

LINPAR 15

Version: 1.01

Revision Date 04.07.2018

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

Skin corrosion/irritation

Skin irritation

Pentadecane:
Rabbit: slightly irritating; OECD Test Guideline 404 (literature value)
Category approach
Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation

Eye irritation

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

Respiratory or skin sensitisation

Sensitisation

Pentadecane:
Maximisation Test Guinea pig: not sensitizing; OECD Test Guideline 406 (literature value)
Category approach
Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity in vitro

Pentadecane:
In vitro tests did not show mutagenic effects
Category approach

Genotoxicity in vivo

Pentadecane:
In vivo tests did not show mutagenic effects
Category approach

Remarks

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

Carcinogenicity

Remarks

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

Reproductive toxicity

Reproductive toxicity

Pentadecane:
Testing proposal

Teratogenicity

Pentadecane:
Rat; Oral
NOAEL: > 1.000 mg/kg (based on body weight and day)
NOAEL (pregnant female): > 1.000 mg/kg (based on body weight and day); OECD Test Guideline 414
Category approach

Remarks-Teratogenicity

Pentadecane:
Did not show teratogenic effects in animal experiments.

STOT - single exposure

Remarks

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

STOT - repeated exposure

Remarks

Pentadecane:
The substance or mixture is not classified as specific target organ toxicant,

LINPAR 15

Version: 1.01

Revision Date 04.07.2018

Repeated dose toxicity	repeated exposure. Pentadecane: Rat; Oral; Subchronic toxicity NOAEL: > 5.000 mg/kg (based on body weight and day); OECD Test Guideline 408 Category approach
Aspiration hazard	
Aspiration toxicity	Pentadecane: May be fatal if swallowed and enters airways.
Human experience	Pentadecane: Repeated exposure may cause skin dryness or cracking. No skin irritation Until now, sensitisation has not occurred during handling.
Toxicological information	Pentadecane: The substance is predicted to be bioavailable via the oral route. The substance is poorly absorbed via skin. extensive and rapid metabolisation The substance is rapidly eliminated from the body. Category approach (literature value)

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	Pentadecane: LL50 (96 h) <i>Scophthalmus maximus</i> : > 100 mg/l ; static test (literature value) Category approach
Toxicity to fish - Chronic toxicity	Pentadecane: (28 d) <i>Oncorhynchus mykiss</i> (rainbow trout); Growth rate; QSAR Category approach In the range of water solubility not toxic under test conditions. (literature value)
Toxicity to daphnia and other aquatic invertebrates	Pentadecane: LL50 (48 h) <i>Acartia tonsa</i> : > 100 mg/l (literature value) Category approach
Toxicity to daphnia and other aquatic invertebrates - Chronic toxicity	Pentadecane: (21 d) <i>Daphnia magna</i> (Water flea); reproduction rate; QSAR; Category approach In the range of water solubility not toxic under test conditions. (literature value)
Toxicity to aquatic plants	Pentadecane: EL50 (72 h) <i>Skeletonema costatum</i> (marine diatom): > 100 mg/l ; (literature value) Category approach
Toxicity to bacteria	Pentadecane: EC50 (3 h) activated sludge of a predominantly domestic sewage: > 100 mg/l; OECD Test Guideline 209 Category approach (literature value)
Toxicity to soil dwelling organisms	Pentadecane: The study is not necessary. Justification:

LINPAR 15

Version: 1.01

Revision Date 04.07.2018

Toxicity to terrestrial flora	Readily biodegradable. Pentadecane: The study is not necessary. Justification: Readily biodegradable.
Toxicity for other terrestrial non-mammalian fauna	Pentadecane: The study is not necessary. Justification: Readily biodegradable.
12.2 Persistence and degradability	
Biodegradability	Pentadecane: Readily biodegradable.; > 60 %; 28 d; aerobic; OECD Test Guideline 306 (literature value) Category approach
12.3 Bioaccumulative potential	
Bioaccumulation	Pentadecane: Bioconcentration factor (BCF): 509 Bioaccumulation is unlikely. (literature value)
12.4 Mobility in soil	
Mobility	Pentadecane: Koc: 337000000 strong adsorption to soil immobile
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	Pentadecane: Category approach Based on available data, the classification criteria are not met.
12.6 Other adverse effects	
General advice	Pentadecane: 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.

SECTION 14: TRANSPORT INFORMATION

LINPAR 15

Version: 1.01

Revision Date 04.07.2018

14.1 UN number

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

14.2 Proper shipping name

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

14.3 Transport hazard class

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

14.4 Packing group

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

14.5 Environmental hazards

ADR	Environmentally hazardous	no
RID	Environmentally hazardous	no
ADN	Environmentally hazardous	no
IMDG	Marine pollutant	no
ICAO/IATA	Environmentally hazardous	no

14.6 Special precautions for user

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

Ship type	3
Pollution category	Y
Remarks	MARPOL NAME: n-Alkanes (C10+)

SECTION 15: REGULATORY INFORMATION

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

LINPAR 15

Version: 1.01

Revision Date 04.07.2018

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

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

list entry in the directive:: Not applicable

NOTIFICATION STATUS

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	restricted (product or constituents are listed with quantity restrictions)
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

pentadecane

A Chemical Safety Assessment is not required for this substance (quantity threshold for registration not reached).

Tetradecane

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

Hexadecane

LINPAR 15

Version: 1.01

Revision Date 04.07.2018

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.

H304 May be fatal if swallowed and enters airways.

Safety datasheet sections which have been updated:

14. Transport 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. New findings, especially with regard to toxicology and ecology, in future may require different labelling.

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

ADN	Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
ADR	Accord européen relatif au transport international des marchandises Dangereuses par Route
AICS	Australian Inventory of Chemical Substances
ANSI	American National Standards Institute
ASTM	American Society of Testing and Materials (US)
BCF	Bioconcentration factor
CLP	Regulation on Classification, Labelling and Packaging of Substances and Mixtures
DIN	Deutsches Institut für Normung
DNEL	Derived No-Effect Level
DSL	Domestic Substances List
EC...	Effect concentration ... %
ENCS	Existing Notified Chemical Substances (Japan)
EWC	European Waste Catalogue
IATA	International Air Transport Association
IBC	Intermediate Bulk Container
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISHL	Industrial Safety and Health Law (Japan)
ISO	International Organization for Standardization
IUAPC	International Union of Pure and Applied Chemistry
KECI	Korea Existing Chemicals Inventory
LC...	Lethal Concentration, ...%
LD...	Lethal Dose, ...%
MARPOL	International Convention for the Prevention of Pollution From Ships
NDSL	Non-Domestic Substances List
NOAEL	no observable adverse effect level
NOEL/NOEC	No Observed-effect level/concentration
NZioC	New Zealand Inventory of Chemicals
OECD	Organisation for Economic Co-operation and Development
PBT	persistent, bioaccumulative, toxic
PICCS	Philippine Inventory of Chemicals and Chemical Substances
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport international ferroviaire de marchandises dangereuses
TG	Test Guideline
TRGS	Technische Regeln für Gefahrstoffe
TSCA	Toxic Substances Control Act
vPvB	very persistent, very bioaccumulative

LINPAR 15

Version: 1.01

Revision Date 04.07.2018

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.

pentadecane

http://www.sasolgermany.de/fileadmin/doc/productsafety/Annex/000000013825_EN_01.pdf

Tetradecane

http://www.sasolgermany.de/fileadmin/doc/productsafety/Annex/000000010617_EN_01.pdf

Hexadecane

http://www.sasolgermany.de/fileadmin/doc/productsafety/Annex/000000005272_EN_01.pdf
