

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**DLUX**

Revision date: 16.07.2019

Product code:

Page 1 of 16

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

DLUX

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

Automotive care products

**Uses advised against**

Any non-intended use.

**1.3. Details of the supplier of the safety data sheet**

Company name: carparts GmbH

Street: Vietorstraße 87

Place: D-51103 Köln

Telephone: +49 (0)221 28 58 58 -58

Telefax: +49 (0)221 28 58 58 -99

e-mail: info@carparts-koeln.de

Responsible Department: info@carparts-koeln.de

**1.4. Emergency telephone number:** +49 (0)221 28 58 58 -58 (9:00-17:00 Mo-Fr)**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Flammable liquid: Flam. Liq. 3

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Specific target organ toxicity - repeated exposure: STOT RE 2

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Flammable liquid and vapour.

Causes skin irritation.

Causes serious eye irritation.

May cause damage to organs through prolonged or repeated exposure.

Harmful to aquatic life with long lasting effects.

**2.2. Label elements****Regulation (EC) No. 1272/2008****Hazard components for labelling**

Stoddard solvent; Low boiling point naphtha - unspecified

**Signal word:** Warning**Pictograms:****Hazard statements**

H226

Flammable liquid and vapour.

H315

Causes skin irritation.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

## DLUX

Revision date: 16.07.2019

Product code:

Page 2 of 16

- H319 Causes serious eye irritation.  
 H373 May cause damage to organs through prolonged or repeated exposure.  
 H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements**

- P101 If medical advice is needed, have product container or label at hand.  
 P102 Keep out of reach of children.  
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
 P403+P235 Store in a well-ventilated place. Keep cool.  
 P501 Dispose of contents/container to local/regional/national/international regulations.

**2.3. Other hazards**

In use, may form flammable/explosive vapour-air mixture.

The mixture contains the following substances fulfilling the PBT-/vPvB criteria according to REACH Annex XIII:  
 octamethylcyclotetrasiloxane (CAS: 556-67-2)

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
69430-37-1	Aminoalkoxydimethylpolysiloxane			15 - 25 %
	628-867-6			
	Flam. Liq. 2, Skin Irrit. 2, Eye Irrit. 2; H225 H315 H319			
541-02-6	Decamethylcyclopentasiloxane			15 - < 20 %
	208-764-9			
3555-47-3	1,1,5,5,5-hexamethyl-3,3-bis[(trimethylsilyl)oxy]trisiloxane			5 - 15 %
	222-613-4			
	Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H315 H319 H335			
8052-41-3	Stoddard solvent; Low boiling point naphtha - unspecified			5 - 10 %
	232-489-3	649-345-00-4		
	Flam. Liq. 3, STOT RE 1, Asp. Tox. 1, Aquatic Chronic 2; H226 H372 H304 H411			
83048-65-1	Heptadecafluorodecyltrimethoxysilane			5 - 15 %
	Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H315 H319 H335			
546-68-9	Titanium tetraisopropanolate			1 - < 3 %
	208-909-6			
	Flam. Liq. 3, Eye Irrit. 2A; H226 H319			
1330-20-7	xylene			1 - < 3 %
	215-535-7	601-022-00-9		
	Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2; H226 H332 H312 H315			
67-56-1	methanol			1 - < 3 %
	200-659-6	603-001-00-X		

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## DLUX

Revision date: 16.07.2019

Product code:

Page 3 of 16

	Flam. Liq. 2, Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, STOT SE 1; H225 H331 H311 H301 H370			
556-67-2	octamethylcyclotetrasiloxane			0.2 - < 0.3 %
	209-136-7	014-018-00-1		
	Repr. 2, Aquatic Chronic 4; H361f H413			
91-20-3	naphthalene			0.1 - < 0.2 %
	202-049-5	601-052-00-2		
	Carc. 2, Acute Tox. 4, Aquatic Acute 1, Aquatic Chronic 1; H351 H302 H400 H410			

Full text of H and EUH statements: see section 16.

### Further Information

Stoddard Solvent (INDEX no.: 649-345-00-4) Note P: The classification as a carcinogen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS-No. 200-753-7).

This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: Decamethylcyclopentasiloxane (CAS 541-02-06), octamethylcyclotetrasiloxane (CAS 556-67-2).

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Take off immediately all contaminated clothing.

#### After inhalation

Remove person to fresh air and keep comfortable for breathing. In case of respiratory tract irritation, consult a physician.

#### After contact with skin

Take off immediately all contaminated clothing. Wash with plenty of water. In case of skin irritation, seek medical treatment.

#### After contact with eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

#### After ingestion

Rinse mouth thoroughly with water. Let water be drunk in little sips (dilution effect). Do NOT induce vomiting. Never give anything by mouth to an unconscious person or a person with cramps. In all cases of doubt, or when symptoms persist, seek medical advice.

### 4.2. Most important symptoms and effects, both acute and delayed

No information available.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Carbon dioxide (CO<sub>2</sub>). Dry extinguishing powder. alcohol resistant foam.  
In case of major fire and large quantities: Atomized water.

#### Unsuitable extinguishing media

High power water jet.

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

**DLUX**

Revision date: 16.07.2019

Product code:

Page 4 of 16

**5.2. Special hazards arising from the substance or mixture**

Can be released in case of fire: Carbon monoxide Carbon dioxide (CO<sub>2</sub>). Nitrogen oxides (NO<sub>x</sub>) Fluorhydric acid. metal oxides.

**5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus. In case of fire and/or explosion do not breathe fumes.

**Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Use water spray jet to protect personnel and to cool endangered containers.

In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Remove all sources of ignition. Ventilate affected area.

Do not breathe gas/vapour/aerosol. Avoid contact with skin, eyes and clothes.

Wear personal protection equipment. (See section 8.)

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains. Cover drains. Prevent spread over a wide area (e.g. by containment or oil barriers). In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

**6.3. Methods and material for containment and cleaning up**

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Ventilate affected area.

Treat the recovered material as prescribed in the section on waste disposal.

Clean contaminated objects and areas thoroughly observing environmental regulations.

**6.4. Reference to other sections**

Safe handling: see section 7

Disposal: see section 13

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

Provide adequate ventilation as well as local exhaust at critical locations.

Wear suitable protective clothing. (See section 8.)

**Advice on protection against fire and explosion**

Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharges.

Flammable vapours can accumulate in head space of closed systems. In use, may form flammable/explosive vapour-air mixture. Heating causes rise in pressure with risk of bursting.

**Further information on handling**

General protection and hygiene measures: See section 8.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep container tightly closed in a cool, well-ventilated place. Protect against direct sunlight.

Ensure adequate ventilation of the storage area.

Make sure spills can be contained (e.g. sump pallets or kerbed areas).

**Hints on joint storage**

Do not store together with: Gas. Explosives. Flammable solids. Pyrophoric liquids and solids. Self-heating substances and mixtures. Substances and mixtures which, in contact with water, emit flammable gases.

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## DLUX

Revision date: 16.07.2019

Product code:

Page 5 of 16

Oxidizing liquids. Oxidizing solids. ammonium nitrate. Self-reactive substances and mixtures. Organic peroxides.  
Non-combustible toxic substances. Radioactive substances. Infectious substances.

### Further information on storage conditions

Keep the packing dry and well sealed to prevent contamination and absorption of humidity.

Protect against: UV-radiation/sunlight. heat. Humidity frost.

storage temperature: 15-25°C

### 7.3. Specific end use(s)

See section 1.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
67-56-1	Methanol	200	266		TWA (8 h)	WEL
		250	333		STEL (15 min)	WEL
91-20-3	Naphthalene	10	50		TWA (8 h)	EU
1330-20-7	Xylene: mixed isomers	50	220		TWA (8 h)	WEL
		100	441		STEL (15 min)	WEL

#### Biological Monitoring Guidance Values (EH40)

CAS No	Substance	Parameter	Value	Test material	Sampling time
1330-20-7	Xylene, o-, m-, p- or mixed isomers	methyl hippuric acid (creatinine)	650 mmol/mol	urine	Post shift

### 8.2. Exposure controls



#### Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

Provide adequate ventilation as well as local exhaust at critical locations.

#### Protective and hygiene measures

The usual precautions for handling chemicals should be considered.

Keep away from food, drink and animal feedingstuffs.

Always close containers tightly after the removal of product. When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Protect skin by using skin protective cream. Take off contaminated clothing.

#### Eye/face protection

Wear safety glasses; chemical goggles (if splashing is possible). DIN EN 166

#### Hand protection

In case of prolonged or frequently repeated skin contact: Wear suitable gloves. (DIN EN 374)

Suitable material: Butyl rubber.

Thickness of glove material: 0,5 mm

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## DLUX

Revision date: 16.07.2019

Product code:

Page 6 of 16

Breakthrough time  $\geq$  480 min. penetration time (maximum wearing period): ~ 120 min. (estimated)

In the case of wanting to use the gloves again, clean them before taking off and air them well. Before using check leak tightness / impermeability.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

### Skin protection

Wear suitable protective clothing.

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500 (D).

### Respiratory protection

Respiratory protection necessary at:

Generation/formation of aerosols

Exceeding exposure limit values

Insufficient ventilation.

Suitable respiratory protective equipment: Combination filtering device (EN 14387) Type: A/P1-3

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

### Environmental exposure controls

Do not allow uncontrolled discharge of product into the environment.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	transparent
Odour:	characteristic

#### Test method

pH-Value:	not determined
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### Changes in the physical state

Melting point:	not applicable
Initial boiling point and boiling range:	120 °C N/A
Flash point:	35 °C

### Explosive properties

In use, may form flammable/explosive vapour-air mixture.

Lower explosion limits:	not determined
Upper explosion limits:	not determined
Ignition temperature:	not determined
Decomposition temperature:	not determined

### Oxidizing properties

none.

Vapour pressure: (at 20 °C)	not determined
Density:	not determined
Water solubility:	not determined

### Solubility in other solvents

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## DLUX

Revision date: 16.07.2019

Product code:

Page 7 of 16

not determined

Viscosity / dynamic:  
(at 40 °C)

not determined

Viscosity / kinematic:  
(at 20 °C)

not determined

Vapour density:

not determined

Evaporation rate:

not determined

Solvent separation test:

not determined

Solvent content:

not determined

### 9.2. Other information

Solid content:

not determined

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No information available.

### 10.2. Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

### 10.3. Possibility of hazardous reactions

Refer to chapter 10.5.

### 10.4. Conditions to avoid

Protect against: UV-radiation/sunlight. heat. moisture.

In use may form flammable/explosive vapour-air mixture.

Heating causes rise in pressure with risk of bursting.

### 10.5. Incompatible materials

Materials to avoid: Oxidizing agents, strong. Reducing agents, strong. Strong acid. strong alkalis.

### 10.6. Hazardous decomposition products

Can be released in case of fire: Carbon monoxide Carbon dioxide (CO<sub>2</sub>). Nitrogen oxides (NO<sub>x</sub>) Fluorhydric acid. metal oxides.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Toxicokinetics, metabolism and distribution

No data available.

#### Acute toxicity

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

The product has not been tested.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
69430-37-1	Aminoalkoxydimethylpolysiloxane				
	oral	LD50 >5000 mg/kg	Rat.	read across	
541-02-6	Decamethylcyclopentasiloxane				
	oral	LD50 > 5000 mg/kg	Rat		

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

## DLUX

Revision date: 16.07.2019

Product code:

Page 8 of 16

	dermal	LD50 > 2000 mg/kg	Rabbit		
	inhalation (4 h) aerosol	LC50 7,3 - 10,32 mg/l	Rat		
1330-20-7	xylene				
	oral	LD50 (3523) mg/kg	Rat	Study report (1986)	EU Method B.1
	dermal	LD50 (12126) mg/kg	Rabbit	Publication (1962)	Single dermal dose under occlusion follo
	inhalation (4 h) vapour	LC50 (6700) mg/l	Rat	Toxicol Appl Pharmacol 33:543-558. (1975)	EU Method B.2
	inhalation aerosol	ATE 1,5 mg/l			
67-56-1	methanol				
	oral	ATE 100 mg/kg			
	dermal	ATE 300 mg/kg			
	inhalation vapour	ATE 3 mg/l			
	inhalation aerosol	ATE 0,5 mg/l			
91-20-3	naphthalene				
	oral	ATE 500 mg/kg			

**Irritation and corrosivity**

Causes skin irritation.

Causes serious eye irritation.

**Sensitising effects**

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

The product is: no danger of sensitization. The statement is derived from the properties of the single components.

**Carcinogenic/mutagenic/toxic effects for reproduction**

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

methanol:

Germ cell mutagenicity: Method: OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test). Species: Mouse.; Result: negative. Literature information: ECHA Dossier; Carcinogenicity: Method: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies). Length of test: 18 m. Species: Mouse.; Result: NOAEC = 1,3 mg/l; Literature information: ECHA Dossier; Reproductive toxicity: Method: OECD Guideline 416 (Two-Generation Reproduction Toxicity Study). Species: Rat. Result: NOAEC = 1,3 mg/l; Literature information: ECHA Dossier; Developmental toxicity/teratogenicity: Method: OECD Guideline 414 (Prenatal Developmental Toxicity Study). Species: Rabbit. Result: NOAEL = 1000 mg/kg.

Nonane:

OECD Guideline 471 (Bacterial Reverse Mutation Assay) = negative.

1,2,4-trimethylbenzene:

In-vitro mutagenicity: Method: OECD Guideline 471 (Bacterial Reverse Mutation Assay); Result: negative. Literature information: ECHA Dossier; Reproductive toxicity Method: OECD Guideline 416 (Two-Generation Reproduction Toxicity Study); Species: Rat.; Exposure duration 2 weeks. Result: NOAEC 500 ppm. Developmental toxicity/teratogenicity: Method: OECD Guideline 414 (Prenatal



# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## DLUX

Revision date: 16.07.2019

Product code:

Page 9 of 16

Developmental Toxicity Study); Species: Rat; Exposure duration: 15 d. Result: NOAEC = 1470 mg/kg; Literature information: ECHA Dossier

2-ethylhexane-1,3-diol; octylene glycol; ethoexadiol:

OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) = positive (with metabolic activation).

OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) = negative.

Reproductive toxicity: NOEL = 3768 mg/kg (Rat)

Developmental toxicity/teratogenicity NOEL = 942 mg/kg (Rat)

xylene:

In-vitro mutagenicity: Method: EU Method B.10 (Mutagenicity - In Vitro Mammalian Chromosome Aberration Test); Result: negative. Literature information: ECHA Dossier; Developmental toxicity/teratogenicity : NOAEL >= 500ppm (OECD Guideline 414); Literature information: ECHA Dossier; Carcinogenicity: Method: EU Method B.32 (Carcinogenicity Test); Species: Rat.; Exposure duration: 24 months. Result: NOAEL = 500 mg/kg; Literature information: ECHA Dossier; Reproductive toxicity: Method: (inhalation.): EPA OPPTS 870.3800 (Reproduction and Fertility Effects); Species: Rat ; Exposure duration: 14d.Results: NOAEC = 500 ppm. Literature information: ECHA Dossier

naphthalene:

In-vitro mutagenicity: Method: OECD Guideline 471 (Bacterial Reverse Mutation Assay) Result: negative. In vivo mutagenicity/genotoxicity Method: OECD Guideline 486 (Unscheduled DNA Synthesis (UDS) Test with Mammalian Liver Cells in vivo) Species: Rat Result: negative.; Literature information: ECHA Dossier. Carcinogenicity: Method: -. Species: Rat Exposure duration: 2 years Result: positive.; Literature information: ECHA Dossier. Developmental toxicity/teratogenicity: Method: OECD Guideline 414 (Prenatal Developmental Toxicity Study) Species: Rat, Exposure duration: 20 d. Results: LOAEL = 50 mg/kg; Literature information: ECHA Dossier

ethylbenzene:

In-vitro mutagenicity: Method: OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test); Result: negative. Literature information: ECHA Dossier; Carcinogenicity: Method: (inhalation.): OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies, 6h/d);Species: Mouse. ; Exposure duration: 2 years ;Result: NOAEL = 250 ppm; Literature information: ECHA Dossier; Reproductive toxicity: Method: (inhalation.): OECD Guideline 415 (One-Generation Reproduction Toxicity Study, 6h/d); Species: Rat; Exposure duration: 28d. Result: NOAEL = 500 ppm; Literature information: ECHA Dossier; Developmental toxicity/teratogenicity: Method: (inhalation.): OECD Guideline 414 (Prenatal Developmental Toxicity Study); Species: Rat; Exposure duration: 20d. Result: NOAEL = 500 ppm; Literature information: ECHA Dossier

### STOT-single exposure

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

### STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure. (Stoddard solvent; Low boiling point naphtha - unspecified)

methanol:

Chronic inhalative toxicity: Method: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies).

Length of test: 12 m . Exposure time: 20 h/d. Species: Rat.

Result: Result: NOAEC = 1,3 mg/l. Literature information: ECHA Dossier

Nonane:

Subchronic oral toxicity NOAEL = 1000 mg/kg (Rat.)

Subchronic inhalative toxicity NOAEL = 8,4 mg/kg (Rat.)

1,2,4-trimethylbenzene:

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

## DLUX

Revision date: 16.07.2019

Product code:

Page 10 of 16

Chronic inhalation toxicity: Method: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day); Species: Rat; Exposure duration: 99 d. Results: NOAEL = 1230 mg/kg; Literature information: ECHA Dossier

2-ethylhexane-1,3-diol; octylene glycol; ethoexadiol:

Subacute oral toxicity NOAEL = 100 mg/kg (Rat)

Subchronic inhalative toxicity NOAEL = 2,0 ml/kg (Rat)

xylene:

Subchronic oral toxicity: Method: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents); Species: Rat ; Exposure duration: 90d. Result: NOAEL = 750 mg/kg (male.) = 150 mg/kg (female.); Literature information: ECHA Dossier

naphthalene:

Subchronic oral toxicity: Method: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) Species: Rat Exposure duration: 90 d. Result: NOAEL = 200 mg/kg; Literature information: ECHA Dossier. 1101.B111237: Method: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies) Species: Rat Exposure duration: 90 d. Result: NOEL = 300 mg/kg; Literature information: ECHA Dossier

ethylbenzene:

Subchronic oral toxicity: Method: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents); Species: Rat; Exposure duration: 90d. Result: NOAEL = 75 mg/kg; Literature information: ECHA Dossier; Subacute inhalative toxicity: Method: OECD Guideline 412 (Repeated Dose Inhalation Toxicity: 28/14-Day, 6h/d); Species: Mouse.; Exposure duration: 28 d. Result: NOAEL = 800 ppm. Literature information: ECHA Dossier

**Aspiration hazard**

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

**Specific effects in experiment on an animal**

No data available.

**Further information**

Solvent:

Symptoms: Depression of the central nervous system. Liver and kidney damage. drowsiness. vomiting. Nausea. Dizziness. unconsciousness. Impaired consciousness. Intoxication. erythema (redness)

**SECTION 12: Ecological information****12.1. Toxicity**

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
541-02-6	Decamethylcyclopentasiloxane					
	Acute fish toxicity	LC50 > 16 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)	ECHA	
	Acute algae toxicity	ErC50 > 12 mg/l		Pseudokirchneriella subcapitata	ECHA	
	Acute crustacea toxicity	EC50 > 2,9 mg/l	48 h	Daphnia magna	ECHA	
	Fish toxicity	NOEC 16 mg/l	14 d	Oncorhynchus mykiss (Rainbow trout)	ECHA	
	Algae toxicity	NOEC > 12 mg/l	4 d	Pseudokirchneriella subcapitata	ECHA	
1330-20-7	xylene					

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

## DLUX

Revision date: 16.07.2019

Product code:

Page 11 of 16

	Acute fish toxicity	LL50 mg/l	(8,4)	96 h	Oncorhynchus mykiss	Ecotoxicology and Environmental Safety.	OECD Guideline 203
	Acute algae toxicity	ErC50 mg/l	(4,9)	72 h	Pseudokirchneriella subcapitata	Ecotoxicology and Environmental Safety.	OECD Guideline 201
	Acute crustacea toxicity	EL50 mg/l	(> 3,4)	48 h	Ceriodaphnia dubia	Ecotoxicology and Environmental Safety 3	US EPA 600/4-91-003
	Fish toxicity	NOEC mg/l	> 1,3	56 d	Oncorhynchus mykiss	Appl. Sci. Branch, Eng. Res. Cent. Denve	Fish were exposed in artificial streams
	Crustacea toxicity	NOEC mg/l	1,17	7 d	Ceriodaphnia dubia	Ecotoxicology and Environmental Safety 3	US EPA 600/4-91-003
	Acute bacteria toxicity	(> 175 mg/l)		0,5 h	Activated sludge	Research Journal WPCF 60(10) 1850-1856 (	OECD Guideline 209
67-56-1	methanol						
	Acute fish toxicity	LC50 mg/l	15400	96 h	Lepomis macrochirus	ECHA Dossier	
	Acute algae toxicity	ErC50 mg/l	22000	96 h	Pseudokirchneriella subcapitata	Ecotoxicology and Environmental Safety 7	OECD Guideline 201
	Acute crustacea toxicity	EC50 mg/l	> 10000	48 h	Daphnia magna	Water Research 23(4): 495-499 (1989)	DIN 38412 Teil 11

**12.2. Persistence and degradability**

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
541-02-6	Decamethylcyclopentasiloxane			
	OECD 310	0,14	28	
	Not easily bio-degradable (according to OECD-criteria).			
1330-20-7	xylene			
	OECD 301F / ISO 9408 / EEC 92/69 annex V, C.4-D	87,8%	28	OECD 301F / ISO 9408 / EEC 92/69 annex V, C.4-D
	Easily biodegradable (concerning to the criteria of the OECD)			
67-56-1	methanol			
	other guideline	76%	20	ECHA Dossier
	Easily biodegradable (concerning to the criteria of the OECD)			

**12.3. Bioaccumulative potential****Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
541-02-6	Decamethylcyclopentasiloxane	8,023
1330-20-7	xylene	3,2

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

## DLUX

Revision date: 16.07.2019

Product code:

Page 12 of 16

67-56-1	methanol	-0,77
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## BCF

CAS No	Chemical name	BCF	Species	Source
541-02-6	Decamethylcyclopentasiloxane	7060	Pimephales promelas	ECHA
1330-20-7	xylene	5,5 - 12,2	Oncorhynchus mykiss	Appl. Sci. Branch, E
67-56-1	methanol	1	Cyprinus carpio	Comparative Biochemi

**12.4. Mobility in soil**

No data available.

**12.5. Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

**12.6. Other adverse effects**

No data available.

**Further information**

Do not allow to enter into surface water or drains.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations**

Dispose of waste according to applicable legislation. Consult the local waste disposal expert about waste disposal. Non-contaminated packages may be recycled. According to (EWC) European Waste Catalogue, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Control report for waste code/ waste marking according to (EWC) European Waste Catalogue:

**List of Wastes Code - residues/unused products**

200129 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); detergents containing hazardous substances; hazardous waste

**List of Wastes Code - used product**

200129 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); detergents containing hazardous substances; hazardous waste

**List of Wastes Code - contaminated packaging**

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

**Contaminated packaging**

Handle contaminated packages in the same way as the substance itself.

**SECTION 14: Transport information****Land transport (ADR/RID)****14.1. UN number:**

UN 1993

**14.2. UN proper shipping name:**

FLAMMABLE LIQUID, N.O.S. (Aminoalkoxydimethylpolysiloxane, ethylbenzene, methanol)

**14.3. Transport hazard class(es):**

3

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

## DLUX

Revision date: 16.07.2019

Product code:

Page 13 of 16

**14.4. Packing group:**

III

Hazard label:

3



Classification code:

F1

Special Provisions:

274 601

Limited quantity:

5 L

Excepted quantity:

E1

Transport category:

3

Hazard No:

30

Tunnel restriction code:

D/E

**Inland waterways transport (ADN)****14.1. UN number:**

UN 1993

**14.2. UN proper shipping name:**

FLAMMABLE LIQUID, N.O.S. (Aminoalkoxydimethylpolysiloxane, ethylbenzene, methanol)

**14.3. Transport hazard class(es):**

3

**14.4. Packing group:**

III

Hazard label:

3



Classification code:

F1

Special Provisions:

274 601

Limited quantity:

5 L

Excepted quantity:

E1

**Marine transport (IMDG)****14.1. UN number:**

UN 1993

**14.2. UN proper shipping name:**

FLAMMABLE LIQUID, N.O.S. (Aminoalkoxydimethylpolysiloxane, ethylbenzene, methanol)

**14.3. Transport hazard class(es):**

3

**14.4. Packing group:**

III

Hazard label:

3



Marine pollutant:

NO

Special Provisions:

223, 274, 955

Limited quantity:

5 L

Excepted quantity:

E1

EmS:

F-E, S-E

**Air transport (ICAO-TI/IATA-DGR)****14.1. UN number:**

UN 1993

**14.2. UN proper shipping name:**

FLAMMABLE LIQUID, N.O.S. (Aminoalkoxydimethylpolysiloxane, ethylbenzene, methanol)

**14.3. Transport hazard class(es):**

3

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

## DLUX

Revision date: 16.07.2019

Product code:

Page 14 of 16

**14.4. Packing group:**

III

Hazard label:

3



Special Provisions:

A3

Limited quantity Passenger:

10 L

Passenger LQ:

Y344

Excepted quantity:

E1

IATA-packing instructions - Passenger:

355

IATA-max. quantity - Passenger:

60 L

IATA-packing instructions - Cargo:

366

IATA-max. quantity - Cargo:

220 L

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS:

no

**14.6. Special precautions for user**

See section 8.

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

not relevant.

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Authorisations (REACH, annex XIV):

Substances of very high concern, SVHC (REACH, article 59):

Decamethylcyclopentasiloxane; octamethylcyclotetrasiloxane

Restrictions on use (REACH, annex XVII):

Entry 69: methanol

Entry 70: Decamethylcyclopentasiloxane; octamethylcyclotetrasiloxane

2010/75/EU (VOC):

No information available.

2004/42/EC (VOC):

No information available.

Information according to 2012/18/EU  
(SEVESO III):

P5c FLAMMABLE LIQUIDS

**Additional information**

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

REACH 1907/2006 Appendix XVII, No (mixture): 3, 40, 69, 70

**National regulatory information**

Employment restrictions:

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

Water contaminating class (D):

3 - highly water contaminating

**15.2. Chemical safety assessment**

For the following substances of this mixture a chemical safety assessment has been carried out:

**SECTION 16: Other information****Changes**

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**DLUX**

Revision date: 16.07.2019

Product code:

Page 15 of 16

Rev. 1.00, Initial release 25.04.2014  
Rev. 1.01, 13.03.2015, Changes in chapter: 2, 3, 16.  
Rev. 2.00, 28.12.2017, Changes in chapter: 1-16.  
Rev. 3.00, 11.07.2018, Changes in chapter: 1-16.  
Rev. 3.10, 16.07.2019, Changes in chapter: 2, 3, 15.

**Abbreviations and acronyms**

ADR: Accord européen sur le transport des marchandises dangereuses par Route  
AwSV: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen  
AGW: Arbeitsplatzgrenzwert  
AVV: Abfallverzeichnisverordnung  
CAS: Chemical Abstracts Service  
CLP: Classification, Labelling and Packaging of substances and mixtures  
DNEL: Derived No Effect Level  
d: day(s)  
EAKV: Europäisches Abfallverzeichnis gemäß Entwurf Abfallverzeichnisverordnung  
EINECS: European INventory of Existing Commercial chemical Substances  
ELINCS: European List of Notified Chemical Substances  
ECHA: European Chemicals Agency  
EWC: European Waste Catalogue  
IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)  
ICAO: International Civil Aviation Organization  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)  
h: hour  
LOAEL: Lowest observed adverse effect level  
LOAEC: Lowest observed adverse effect concentration  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
NOAEL: No observed adverse effect level  
NOAEC: No observed adverse effect level  
NLP: No-Longer Polymers  
N/A: not applicable  
OECD: Organisation for Economic Co-operation and Development  
PNEC: predicted no effect concentration  
PBT: Persistent bioaccumulative toxic  
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail )  
REACH: Registration, Evaluation, Authorisation of Chemicals  
SVHC: substance of very high concern  
TRGS: Technische Regeln fuer Gefahrstoffe  
UN: United Nations  
VOC: Volatile Organic Compounds  
VwVwS: Verwaltungsvorschrift wassergefährdender Stoffe  
WGK: Wassergefährdungsklasse

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## DLUX

Revision date: 16.07.2019

Product code:

Page 16 of 16

### Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Flam. Liq. 3; H226	On basis of test data
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
STOT RE 2; H373	Calculation method
Aquatic Chronic 3; H412	Calculation method

### Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H361f	Suspected of damaging fertility.
H370	Causes damage to organs.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

### Further Information

Classification according to Regulation (EC) No 1272/2008 [CLP] - Classification procedure:

Health hazards: Calculation method.

Environmental hazards: Calculation method.

Physical hazards: On basis of test data and / or calculated and / or estimated.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*