

Detaflex 4000 Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 21/10/2016 Revision date: 21/10/2016 Supersedes: 11/12/2015 Version: 11.0

SECTION 1: I dentification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixtures

Trade name : Detaflex 4000

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

1.2.1. Relevant identified uses

Main use category : Professional use

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

DL CHEMICALS
Roterijstraat 201-203
B-8793 Waregem - Belgium
T + 32 56 62 70 51 - F + 32 56 60 95 68
info@dl-chem.com - www.dl-chem.com

1.4. Emergency telephone number

Emergency number : + 32 70 245 245

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

EUH-statements : EUH204 - Contains isocyanates. May produce an allergic reaction

EUH208 - Contains Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate. May produce an

allergic reaction

EUH210 - Safety data sheet available on request

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

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SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
polyvinyl chloride	(CAS No) 9002-86-2 (EC no) -	20 - 50	Not classified
xylene	(CAS No) 1330-20-7 (EC no) 215-535-7 (EC index no) 601-022-00-9 (REACH-no) 01-2119488216-32	4 - 7	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315
Titanium dioxide	(CAS No) 13463-67-7 (EC no) 236-675-5 (REACH-no) 01-2119489379-17	< 5	Not classified
Diiron trioxide	(CAS No) 1309-37-1 (EC no) 215-168-2 (REACH-no) 01-2119457614-35	< 2	Not classified
calcium oxide	(CAS No) 1305-78-8 (EC no) 215-138-9 (REACH-no) 01-2119475325-36	< 2,5	Skin Irrit. 2, H315 Eye Dam. 1, H318
chromium oxide	(CAS No) 1308-38-9 (EC no) 215-160-9 (REACH-no) 01-2119433951-39	< 2,5	Not classified
Hydrocarbons, C11-C14, n-alkanes, iso-alkanes, cyclic, <2% aromatic	(EC no) 926-141-6 (REACH-no) 01-2119456620-43	< 2,5	Asp. Tox. 1, H304
ethylbenzene	(CAS No) 100-41-4 (EC no) 202-849-4 (EC index no) 601-023-00-4 (REACH-no) 01-2119489370-35	< 2	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332 STOT RE 2, H373 Asp. Tox. 1, H304
Di-isononylphthalate	(CAS No) 28553-12-0 (EC no) 249-079-5 (REACH-no) 01-2119430798-28	< 2	Not classified
carbon black	(CAS No) 1333-86-4 (EC no) 215-609-9 (REACH-no) 01-2119384822-32	< 0,5	Not classified
Calcium hydroxide	(CAS No) 1305-62-0 (EC no) 215-137-3 (REACH-no) 01-2119475151-45	< 0,5	Skin Irrit. 2, H315 Eye Dam. 1, H318

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1.	Description	of first aic	l measures

First-aid measures after inhalation : Move to fresh air. If unconscious, place in the recovery position and seek medical advice. If breathing stops, give artificial respiration. In all cases of doubt, or when

symptoms persist, seek medical attention.

First-aid measures after skin contact : After contact with skin, wash immediately and thoroughly with water and soap.

Rinse with water.

First-aid measures after eye contact : Rinse opened eye for several minutes under running water. Then consult doctor.

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

Symptoms/injuries : May be narcotic. Nausea. Dizziness. Headache.

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

No additional information available

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Foam. Carbon dioxide. extinguishing powder.

Unsuitable extinguishing media : Strong water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case : Carbon dioxide. Carbon monoxide. Isocyanates. Hydrogen cyanide. Nitrogen

e oxides.

5.3. Advice for firefighters

Protection during firefighting : Use self-contained breathing apparatus when in close proximity to fire.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Ensure adequate air ventilation. Eliminate every possible source of ignition.

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Do not allow to enter drains or water courses.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up mechanically (sweeping, shovelling) and collect in suitable container for

disposal. Do not seal, block up or close.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Keep away from sources of ignition - No smoking.

Precautions for safe handling : Handle and open container with care.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep cool.

Storage area : Protect from moisture.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

Control parameters xylene (1330-20-7) EU Local name Xylene, mixed isomers, pure EU IOELV TWA (mg/m³) 221 mg/m³ ΕU IOELV TWA (ppm) 50 ppm ΕU 442 mg/m³ IOELV STEL (mg/m³) EU IOELV STEL (ppm) 100 ppm FU Notes Skin United Kingdom WEL TWA (mg/m³) 220 mg/m³ United Kingdom WEL TWA (ppm) 50 ppm United Kingdom WEL STEL (mg/m3) 441 mg/m³ United Kingdom WEL STEL (ppm) 100 ppm Titanium dioxide (13463-67-7) United Kingdom WEL TWA (mg/m³) 10 mg/m³ inhalable dust 4 mg/m³ respirable dust carbon black (1333-86-4) United Kingdom WEL TWA (mg/m³) 3,5 mg/m³ United Kingdom WEL STEL (mg/m³) 7 mg/m³

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ethylbenzene (100-41-4)			
EU	Local name	Ethylbenzene	
EU	IOELV TWA (mg/m³)	442 mg/m ³	
EU	IOELV TWA (ppm)	100 ppm	
EU	IOELV STEL (mg/m³)	884 mg/m³	
EU	IOELV STEL (ppm)	200 ppm	
EU	Notes	Skin	
United Kingdom	WEL TWA (mg/m³)	441 mg/m³	
United Kingdom	WEL TWA (ppm)	100 ppm	
United Kingdom	WEL STEL (mg/m³)	552 mg/m ³	
United Kingdom	WEL STEL (ppm)	125 ppm	
calcium oxide (1305-78	calcium oxide (1305-78-8)		
United Kingdom	WEL TWA (mg/m³)	2 mg/m³	
Diiron trioxide (1309-37-1)			
United Kingdom	WEL TWA (mg/m³)	10 mg/m³ Aerosol	
polyvinyl chloride (9002-86-2)			
United Kingdom	WEL TWA (mg/m³)	10 mg/m ³	
chromium oxide (1308-38-9)			
EU	IOELV TWA (mg/m³)	2 mg/m³	

8.2. Exposure controls

Appropriate engineering controls

: Ensure good ventilation of the work station.

Hand protection:

Please follow the instructions related to the permeability and the penetration time provided by the manufacturer

Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Polyvinylalcohol				EN 374

Eye protection:

Туре	Use	Characteristics	Standard
Safety glasses		With side shields	EN 166

Skin and body protection:

Protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Device	Filter type	Condition	Standard
Gas filters	Filter A1/B1	If conc. in air > exposure limit	







Consumer exposure controls

: Avoid contact with skin and eyes.

Other information

: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid
Appearance : Paste

Colour : According to product specification

Odour : Slight

Melting point : Not determined

Boiling point : 137 °C

Flash point : > 40 °C ISO 1523

Auto-ignition temperature : > 200 °C
Flammability (solid, gas) : Not flammable
Relative density : 1,16 at 20 °C
Solubility : Water: Insoluble

Explosive properties : Product is not explosive. May form flammable/explosive vapour-air mixture.

Explosive limits : 0,6 - 8 vol %

9.2. Other information

VOC content : < 7 % 0.01 kPa @ 293.15K

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

No additional information available

10.3. Possibility of hazardous reactions

Reacts with: Amines. Alcohol. Alkali. Acids. Reacts slowly with water, generate gases (CO2) and overpressure: rupture containers.

10.4. Conditions to avoid

None under normal use.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No decomposition if stored normally.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

xylene (1330-20-7)		
LD50 oral rat	3523 mg/kg	
LD50 dermal rat	12126 mg/kg	
LC50 inhalation rat (mg/l)	29 mg/l/4h	
LC50 inhalation rat (Vapours - mg/l/4h)	27571 mg/l/4h	
ethylbenzene (100-41-4)		
LD50 oral rat	> 3500 mg/kg	
LD50 dermal rabbit	17800 mg/kg	
LC50 inhalation rat (mg/l)	> 9,6 mg/l/4h	
Titanium dioxide (13463-67-7)		
LD50 oral rat	> 5000 mg/kg	
LD50 dermal rabbit	> 10000 mg/kg	
LC50 inhalation rat (mg/l)	3,43 mg/l	
LC50 inhalation rat (Dust/Mist - mg/l/4h)	> 6,82 mg/l/4h	
polyvinyl chloride (9002-86-2)		
LD50 oral rat	> 2000 mg/kg	
LD50 dermal rabbit	> 2000 mg/kg	

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carbon black (1333-86-4)	
LD50 oral rat	8000 mg/kg
chromium oxide (1308-38-9)	
LD50 oral rat	> 5000 mg/kg (OECD 401 method)
LC50 inhalation rat (Dust/Mist - mg/l/4h)	> 5,41 mg/l/4h (OECD 403 method)
Skin corrosion/irritation	: Slightly irritant but not relevant for classification
Serious eye damage/irritation	: Not irritating to rabbits on ocular application (Based on available data, the classification criteria are not met)
Additional information	: (OECD 405 method)
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
carbon black (1333-86-4)	
NOAEL (inhalation, rat, vapour)	90d 0,0011 mg/l/4h
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
carbon black (1333-86-4)	
NOAEL (inhalation, rat, vapour, 90 days)	1 mg/l/6h/day
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)

SECTION 12: Ecological information

Persistence and degradability

ethylbenzene (100-41-4)
Persistence and degradability

12.1. Toxicity	
Ecology – water	: No information available.
xylene (1330-20-7)	
LC50 fish 1	2,6 mg/l Oncorhynchus mykiss (Rainbow trout)
EC50 Daphnia 1	1 mg/l
EC50 other aquatic organisms 2	0 mg/l
NOEC chronic fish	> 1,3 mg/l Oncorhynchus mykiss (Rainbow trout)
ethylbenzene (100-41-4)	
LC50 fish 1	> 10 mg/l Pimephales promelas
EC50 Daphnia 1	> 1,8 mg/l
EC50 72h algae (1)	4,6 mg/l
Titanium dioxide (13463-67-7)	
LC50 fish 1	> 1000 mg/l
LC50 fish 2	> 10000 mg/l
EC50 Daphnia 1	2 mg/l
EC50 other aquatic organisms 1	> 10000 mg/l
EC50 other aquatic organisms 2	61 mg/l
NOEC (chronic)	0,01 mg/l rat
NOEC chronic algae	56000 mg/l
carbon black (1333-86-4)	
LC50 fish 1	96h 1000 mg/l Brachydanio rerio (zebra-fish)
LC50 fish 2	14d 5000 mg/l
EC50 Daphnia 1	24h 5600 mg/l Daphnia magna (Big water flea)
NOEC chronic algae	3d 10000 mg/l Scenedesmus subspicatus
polyvinyl chloride (9002-86-2)	
LC50 fish 1	>= 100 mg/l pisces
chromium oxide (1308-38-9)	
LC50 fish 1	10000 mg/l (OECD 210 method)
12.2. Persistence and degradabili	ty
xylene (1330-20-7)	

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Easily biodegradable (concerning to the criteria of the OECD).

Readily biodegradable.

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Titanium dioxide (13463-67-7)	
Persistence and degradability	Not readily biodegradable.
12.3. Bioaccumulative potential	
xylene (1330-20-7)	
Bioaccumulative potential	Bioaccumulation unlikely.
ethylbenzene (100-41-4)	
Log Pow	3,6
Bioaccumulative potential	Bioaccumulation unlikely.
12.4. Mobility in soil	
xylene (1330-20-7)	
Ecology - soil	Floats on water.
ethylbenzene (100-41-4)	
Surface tension	71,2 mN/m at 23°C
Ecology - soil	Floats on water.
12.5 Desults of DRT and vDvR a	assament .

12.5. Results of PBT and vPvB assessment

Detaflex 4000

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

Additional information : Do not allow into drains or water courses

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.

Waste disposal recommendations : Incinerate at a licensed installation.

European List of Waste (LoW) code : 08 04 09* - waste adhesives and sealants containing organic solvents or other

dangerous substances

SECTION 14: Transport information

In accordance with ADR

ADIC
14.1. UN number
Not applicable
14.2. UN proper shipping name
Not applicable
14.3. Transport hazard class(es)
Not applicable
Not applicable
14.4. Packing group
Not applicable
14.5. Environmental hazards
Dangerous for the environment · No

No supplementary information available

14.6. Special precautions for user

- Overland transport

Transport regulations (ADR) : No dangerous good in sense of transport regulations.

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

Not applicable

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SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

VOC content : < 7 % 0.01 kPa @ 293.15K

15.1.2. National regulations No additional information available

15.2. Chemical safety assessment

A chemical safety assessment has been carried out

SECTION 16: Other information

Full text of H- and EUH-statements:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
H225	Highly flammable liquid and vapour
H226	Flammable liquid and vapour
H304	May be fatal if swallowed and enters airways
H312	Harmful in contact with skin
H315	Causes skin irritation
H318	Causes serious eye damage
H332	Harmful if inhaled
H373	May cause damage to organs through prolonged or repeated exposure
EUH204	Contains isocyanates. May produce an allergic reaction
EUH208	Contains . May produce an allergic reaction
EUH210	Safety data sheet available on request

MSDS Reach Annex II DL-Chem

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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