

Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

# **LUXAN CFX D393**

Version 2.2 Revision Date 09.03.2022 Print Date 15.04.2024

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name : LUXAN CFX D393

Material number : 038066ML0

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

This information is not available.

#### 1.3 Details of the supplier of the safety data sheet

Company : ECKART Suisse SA

Route de la Brasserie 2

1963 Vétroz

Telephone : +410273454800 Telefax : +410273454859

E-mail address : msds.eckart@altana.com

Responsible/issuing person

# 1.4 Emergency telephone number

#### NCEC:

(contract no.: ECKART29003-NCEC)

- +44 1235 239671 (Middle East/Africa, call and response in your language)
- +1 215 207 0061 (Americas, call and response in your language)
- +65 3158 1074 (Asia-Pacific, call and response in your language)

#### **SECTION 2: Hazards identification**

#### **GHS Classification**

Not a dangerous substance according to GHS.

#### **GHS-Labelling**

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Not a hazardous substance or mixture according to the Globally Harmonised System (GHS).

Hazardous components which must be listed on the label

#### **SECTION 3: Composition/information on ingredients**

Substance No. :

#### Hazardous components

Chemical name	CAS-No.	Classification and	Concentration[%]
	EINECS-No.	labelling	
titanium dioxide	13463-67-7 236-675-5	Acute Tox.;5;H333	1 - 10

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 : Do not leave the victim unattended.

If inhaled : If unconscious, place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of skin contact : Wash off with soap and water.

In case of eye contact : Remove contact lenses.

If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

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

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This information is not available.

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

This information is not available.

# **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing media : Foam, Carbon dioxide (CO2), ABC powder

#### 5.2 Special hazards arising from the substance or mixture

This information is not available.

#### 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 extinguishing

measures that are appropriate to local circumstances and the

surrounding environment.

#### **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Avoid dust formation.

#### 6.2 Environmental precautions

Environmental precautions : No special environmental precautions required.

#### 6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Pick up and arrange disposal without creating dust.

Sweep up and shovel.

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Keep in suitable, closed containers for disposal.

#### 6.4 Reference to other sections

This information is not available.

# **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Advice on safe handling : For personal protection see section 8. Smoking, eating and

drinking should be prohibited in the application area.

Advice on protection against

fire and explosion

: Provide appropriate exhaust ventilation at places where dust

is formed.

Hygiene measures : General industrial hygiene practice.

# 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

: Electrical installations / working materials must comply with

the technological safety standards.

Advice on common storage : 1

: No materials to be especially mentioned.

Other data : Keep in a dry place. No decomposition if stored and applied

as directed.

### 7.3 Specific end use(s)

This information is not available.

# **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

Germany:

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Components   CAS-No.   Form of exposure   Control parameters   Update   Basis			1		1	
hydroxide oxide yellow         1         fraction (setegory)         2;(II)           iron hydroxide oxide yellow         51274-00-1 (fraction)         AGW (Alveolate fraction)         1,25 mg/m3         2014-04-02         DE TRGS 900           Peak-limit: excursion factor (category)         2;(II)         AGW (Alveolate fraction)         2,6 mg/m3         2009-02-16         DE TRGS 900           Peak-limit: excursion factor (category)         AGW (Alveolate fraction)         2,6 mg/m3         2009-02-16         DE TRGS 900           Peak-limit: excursion factor (category)         2;(II)         Employ (II)         Employ (III)         DE TRGS 900           Further information         Commission for dangerous substances         Employ (III)         DE TRGS 900         DE TRGS 900           Further information         Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission). Colloidal amorphous silica, including pyrogenic silica and in wet processes manufactured silica (precipitated silica, silicagel). When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child         Etrags 900           titanium factor (category)         2;(II)         2014-04-02         DE TRGS 900           titanium factor (category)         13463-67- AGW (Inhalable fraction)         1,25 mg/m3         2014-04-02         DE TRGS 900           titanium factor (category) <t< td=""><td>Components</td><td>CAS-No.</td><td>exposure)</td><td></td><td>Update</td><td></td></t<>	Components	CAS-No.	exposure)		Update	
oxide yellow Peak-limit: excursion factor (category)         2;(II)           iron hydroxide oxide yellow         51274-00- fraction         AGW (Alveolate fraction)         1,25 mg/m3         2014-04-02         DE TRGS 900           Peak-limit: excursion factor (category)         2;(II)         2(III)         2009-02-16         DE TRGS 900           hydroxide oxide yellow         1         AGW (Alveolate fraction)         2,6 mg/m3         2009-02-16         DE TRGS 900           Peak-limit: excursion factor (category)         2;(II)         Eurher information         Commission for dangerous substances           silicon dioxide         7631-86-9         AGW (Inhalable fraction)         4 mg/m3         2013-09-19         DE TRGS 900           Further information         Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission). Colloidal amorphous silica, including pyrogenic silica and in wet processes manufactured silica (precipitated silica, silicagel). When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child         2;(II)           titanium factor (category)         2;(II)         1,25 mg/m3         2014-04-02         DE TRGS 900           titanium factor (category)         2;(II)         2(II)         DE TRGS 900	iron	51274-00-		10 mg/m3	2014-04-02	DE TRGS 900
Peak-limit: excursion factor (category)	hydroxide	1	fraction)			
factor (category) iron   51274-00-   AGW (Alveolate   1,25 mg/m3   2014-04-02   DE TRGS 900   Peak-limit: excursion factor (category) iron   51274-00-   AGW (Alveolate   2,6 mg/m3   2009-02-16   DE TRGS 900   Peak-limit: excursion factor (category)  Further information   Commission for dangerous substances  Silicon   7631-86-9   AGW (Inhalable   4 mg/m3   2013-09-19   DE TRGS 900   Peak-limit: excursion factor (category)  Further information   Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission). Colloidal amorphous silica, including pyrogenic silica and in wet processes manufactured silica (precipitated silica, silicagel). When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child  titanium   13463-67-   AGW (Inhalable   10 mg/m3   2014-04-02   DE TRGS 900   DE	oxide yellow					
Iron hydroxide oxide yellow   Peak-limit: excursion factor (category)   Further information   Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission). Colloidal amorphous silica, including pyrogenic silica and in wet processes manufactured silica (precipitated silica, silicagel). When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child   1,25 mg/m3   2014-04-02   DE TRGS 900   D	Peak-limit: exc	cursion	2;(II)			
hydroxide oxide yellow Peak-limit: excursion factor (category)  rion   51274-00- hydroxide   0xide yellow   51274-00- hydroxide   0xide yellow   51274-00- factor (category)  Further information   2;(II)  Further information   Commission for dangerous substances  Silicon dioxide   7631-86-9   AGW (Inhalable fraction)	factor (catego	ry)				
Oxide yellow  Peak-limit: excursion factor (category)  iron 51274-00- hydroxide oxide yellow  Peak-limit: excursion fraction)  Peak-limit: excursion factor (category)  Further information  Silicon of 7631-86-9 fraction)  Further information  Commission for dangerous substances  Silicon of 7631-86-9 fraction)  Further information  Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission). Colloidal amorphous silica, including pyrogenic silica and in wet processes manufactured silica (precipitated silica, silicagel). When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child  titanium of 13463-67- fraction)  Peak-limit: excursion factor (category)  titanium 13463-67- fraction)  2;(II)  factor (category)  titanium 13463-67- fraction)  2;(II)  factor (category)  titanium 13463-67- AGW (Inhalable of 10 mg/m3 of 10 mg/m		51274-00-		1,25 mg/m3	2014-04-02	DE TRGS 900
Peak-limit: excursion factor (category) iron	hydroxide	1	fraction)			
factor (category)  iron   51274-00-   AGW (Alveolate   2,6 mg/m3   2009-02-16   DE TRGS 900   Peak-limit: excursion   fraction)  Peak-limit: excursion   2;(II)  Further information   Commission for dangerous substances  silicon   7631-86-9   AGW (Inhalable   fraction)  Further information   Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission). Colloidal amorphous silica, including pyrogenic silica and in wet processes manufactured silica (precipitated silica, silicagel). When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child  titanium   13463-67-   AGW (Inhalable   10 mg/m3   2014-04-02   DE TRGS 900   De TRG	oxide yellow					
iron hydroxide oxide yellow Peak-limit: excursion factor (category)  Further information  Senate commission for the review of compounds at the work place dangerous silica, including pyrogenic silica and in wet processes manufactured silica, precipitated silica, silicagel). When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child  titanium 13463-67- dioxide 7  Peak-limit: excursion factor (category)  titanium 13463-67- dioxide 7  Peak-limit: excursion factor (category)  titanium 13463-67- AGW (Alveolate fraction)  Peak-limit: excursion factor (category)  titanium 13463-67- AGW (Inhalable fraction)  13463-67- AGW (Inhalable fraction)  Peak-limit: excursion factor (category)  titanium 13463-67- AGW (Inhalable fraction)  Peak-limit: excursion factor (category)  titanium 13463-67- AGW (Inhalable fraction)  Peak-limit: excursion factor (category)  titanium 13463-67- AGW (Inhalable fraction)  Peak-limit: excursion factor (category)  titanium 13463-67- AGW (Inhalable fraction)  Peak-limit: excursion factor (category)  titanium 13463-67- AGW (Inhalable fraction)  Peak-limit: excursion factor (category)  titanium 13463-67- AGW (Inhalable fraction)  Peak-limit: excursion factor (category)  titanium factor (category)  titanium factor (category)	Peak-limit: exc	cursion	2;(II)			
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Silicon dioxide   7631-86-9   AGW (Inhalable fraction)   AGW (Inhalable fraction)   AGW (Inhalable fraction)   AGW (Inhalable fraction)   DE TRGS 900    Further information   Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission). Colloidal amorphous silica, including pyrogenic silica and in wet processes manufactured silica (precipitated silica, silicagel). When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child    titanium	factor (category)					
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dioxide         7         fraction)	Further information		place dangerous amorphous silica manufactured si compliance with	s for the health (MA a, including pyroge lica (precipitated si the OEL and biolo	K-commission). nic silica and in v lica, silicagel).W gical tolerance v	Colloidal wet processes hen there is
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factor (category)           titanium         13463-67- dioxide         AGW (Alveolate fraction)         1,25 mg/m3         2014-04-02         DE TRGS 900           Peak-limit: excursion factor (category)         2;(II)           titanium         13463-67- AGW (Inhalable 10 mg/m3         2014-04-02         DE TRGS 900	dioxide	7	fraction)			
titanium         13463-67- dioxide         AGW (Alveolate fraction)         1,25 mg/m3         2014-04-02         DE TRGS 900           Peak-limit: excursion factor (category)         2;(II)           titanium         13463-67- 13463-67-         AGW (Inhalable AGW	Peak-limit: exc	cursion	2;(II)			
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Peak-limit: excursion factor (category)         2;(II)           titanium         13463-67- AGW (Inhalable 10 mg/m3 2014-04-02 DE TRGS 900	titanium	13463-67-		1,25 mg/m3	2014-04-02	DE TRGS 900
factor (category)         AGW (Inhalable   10 mg/m3   2014-04-02   DE TRGS 900   D	dioxide	7	fraction)			
factor (category)         AGW (Inhalable   10 mg/m3   2014-04-02   DE TRGS 900   D	Peak-limit: excursion		2;(  )			
titanium 13463-67- AGW (Inhalable 10 mg/m3 2014-04-02 DE TRGS 900	factor (catego	ry)				
dioxide 7 fraction)	titanium	13463-67-		10 mg/m3	2014-04-02	DE TRGS 900
	dioxide	7	fraction)			

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Peak-limit: exc factor (categor		2;(II)	2;(II)			
Further inform	ation	General dust value. For this substance no specific occupational exposure limit value is established, since the AGS does not yet have information regarding unspecific action on the respiratory organs in excess of the normal values. Commission for dangerous substances Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).			does not yet respiratory for dangerous mpounds at	
titanium dioxide	13463-67- 7	AGW (Alveolate   1,25 mg/m3   2014-04-02   DE TRGS 900   fraction)				
Peak-limit: excursion factor (category)		2;(II)				
Further inform	Further information		General dust value. For this substance no specific occupational exposure limit value is established, since the AGS does not yet have information regarding unspecific action on the respiratory organs in excess of the normal values. Commission for dangerous substances Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).			

# United States of America (USA):

titanium dioxide	13463-67- 7	TWA (total dust)	50 Million particles per cubic foot	2012-07-01
titanium dioxide	13463-67- 7	TWA (total dust)	15 mg/m3	2012-07-01
titanium dioxide	13463-67- 7	TWA (respirable fraction)	5 mg/m3	2012-07-01
titanium dioxide	13463-67- 7	TWA (respirable fraction)	15 Million particles per cubic foot	2012-07-01
titanium dioxide	13463-67- 7	PEL (Total dust)	10 mg/m3	2014-11-26
titanium dioxide	13463-67- 7	PEL (respirable dust fraction)	5 mg/m3	2014-11-26
titanium dioxide	13463-67- 7	TWA (total dust)	15 mg/m3	2011-07-01
titanium dioxide	13463-67- 7	TWA (Total dust)	10 mg/m3	1989-01-19
titanium	13463-67-	PEL (Total dust)	10 mg/m3	2014-11-26

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dioxide	7				
titanium	13463-67-	PEL (respirable	5 mg/m3	2014-11-26	
dioxide	7	dust fraction)			
titanium	13463-67-	TWA	10 mg/m3	2014-03-01	
dioxide	7				

#### 8.2 Exposure controls

# Personal protective equipment

Eye protection : Safety glasses
Skin and body protection : Protective suit

Respiratory protection : No personal respiratory protective equipment normally

required.

#### **Environmental exposure controls**

General advice : No special environmental precautions required.

# **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

Appearance : powder

Colour : gold

Odour : characteristic

pH : substance/mixture is non-soluble (in water)

Freezing point : No data available
Boiling point/boiling range : No data available
Flash point : No data available
Bulk density : 0,56 - 0,66 g/cm3

Flammability (solid, gas) : Will not burn

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Auto-flammability : No data available
Upper explosion limit : No data available
Lower explosion limit : No data available
Vapour pressure : No data available
Density : 2,52 - 3,03 g/cm3
Water solubility : No data available

Miscibility with water : immiscible

Solubility in other solvents : No data available
Partition coefficient: n-octanol/water : No data available
Ignition temperature : No data available
Thermal decomposition : No data available
Viscosity, dynamic : No data available
Viscosity, kinematic : No data available
Flow time : No data available

#### 9.2 Other information

No data available

# **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

No decomposition if stored and applied as directed.

#### 10.2 Chemical stability

No decomposition if stored and applied as directed.

#### 10.3 Possibility of hazardous reactions

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Hazardous reactions : Stable under recommended storage conditions., No hazards

to be specially mentioned.

10.4 Conditions to avoid

Conditions to avoid

10.5 Incompatible materials

: No data available

Materials to avoid : No data available

10.6 Hazardous decomposition products

Hazardous decomposition

products

: No data available

Other information : No data available

**SECTION 11: Toxicological information** 

11.1 Information on toxicological effects

Acute toxicity

**Components:** 

titanium dioxide:

Acute oral toxicity : LD50 Rat: > 5 000 mg/kg

Acute inhalation toxicity : LC50 Rat: 6,8 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

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Acute dermal toxicity : LD50 Rabbit: > 5 000 mg/kg

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitisation

No data available

Carcinogenicity

No data available

Toxicity to reproduction/fertility

No data available

Reprod.Tox./Development/Teratogenicity

No data available

STOT - single exposure

No data available

STOT - repeated exposure

No data available

**Aspiration toxicity** 

No data available

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#### **Further information**

#### **Product**

No data available

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

No data available

# 12.2 Persistence and degradability

No data available

#### 12.3 Bioaccumulative potential

No data available

# 12.4 Mobility in soil

No data available

#### 12.5 Results of PBT and vPvB assessment

No data available

### 12.6 Other adverse effects

# **Product:**

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Version 2.2 Revision Date 09.03.2022 Print Date 15.04.2024

Additional ecological

information

: No data available

# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Contaminated packaging : Empty containers should be taken to an approved waste

handling site for recycling or disposal.

# **SECTION 14: Transport information**

#### 14.1 UN number

**ADR** 

Not dangerous goods

**TDG** 

Not dangerous goods

**CFR** 

Not dangerous goods

**IMDG** 

Not dangerous goods

**IATA** 

Not dangerous goods

# 14.2 Proper shipping name

**ADR** 

Not dangerous goods

**TDG** 

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Not dangerous goods

**CFR** 

Not dangerous goods

**IMDG** 

Not dangerous goods

**IATA** 

Not dangerous goods

# 14.3 Transport hazard class

**ADR** 

Not dangerous goods

**TDG** 

Not dangerous goods

**CFR** 

Not dangerous goods

**IMDG** 

Not dangerous goods

**IATA** 

Not dangerous goods

# 14.4 Packing group

**ADR** 

Not dangerous goods

**TDG** 

Not dangerous goods

**CFR** 

Not dangerous goods

**IMDG** 

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Not dangerous goods

**IATA** 

Not dangerous goods

#### 14.5 Environmental hazards

# 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

No data available

#### **SECTION 15: Regulatory information**

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

REACH - Candidate List of Substances of Very High

Concern for Authorisation (Article 59).

Regulation (EC) No 1005/2009 on substances that

deplete the ozone layer

Regulation (EU) 2019/1021 on persistent organic

pollutants (recast)

REACH - Restrictions on the manufacture, placing on

the market and use of certain dangerous substances,

preparations and articles (Annex XVII)

: Not applicable: Not applicable

: Not applicable

### : Not applicable

# 15.2 Chemical safety assessment

No data available

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#### **SECTION 16: Other information**

#### Full text of H-Statements

H333 : May be harmful if inhaled.

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.