



Product Name: cedis Drying Capsules

REF: 87300, 87307, 87309

Date of print: 16.01.2018 Date of last alteration: 16.01.2018



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

1.1. Product identifier

Trade name

cedis Drying Capsules

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

Use of the Substance/Mixture

Desiccant for chemical and pharmaceutical products, food, electronic and optical components.

1.3. Details of the supplier of the safety data sheet

Manufacturer/distributor: egger Otoplastik+Labortechnik GmbH

Street/POB-No.: Aybühlweg 59

Postal code/city/country: 87439 Kempten/Germany

Telephone: +49 831 58113-60

Telefax: +49 831 58113-14

Internet: www.egger-labor.com

E-mail: sales@egger-labor.de

1.4. Emergency telephone number: +49 89 19240

Emergency number: Munich, Germany, (toxicological dep. of the II. Med. Hospital)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

No classification.

Classification (67/548/EEC, 1999/45/EC)

No classification.

2.2. Label elements

Labelling (REGULATION (EC) No 1272/2008)

No labelling required.

2.3. Other hazards

No data available

Silicone dioxide

This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

Ammonium iron bis(sulphate)

No data available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical nature

Mixture



Product Name: cedis Drying Capsules

REF: 87300, 87307, 87309

Date of print: 16.01.2018 Date of last alteration: 16.01.2018

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
silicone dioxide	7631-86-9 231-545-4 / 01- 2119379499-16			>= 93
Ammonium iron bis(sulfate) dodecahydrate	7783-83-7 233-382-4			<= 5

SECTION 4: First aid measures

4.1. Description of first aid measure

If inhaled

Remove to fresh air. If symptoms persist, call a physician.

In case of skin contact

Wash off with soap and water. If skin irritation occurs, seek medical advice/attention.

In case of eye contact

Rinse with plenty of water. If eye irritation persists, consult a specialist.

If swallowed

Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Obtain medical attention.

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

Symptoms

No information available.

Risks

No information available.

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

Treatment

No information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

The product itself does not burn. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

None known.

5.2. Special hazards arising from the substance or mixture

Specific hazards during firefighting

nitrogen oxides (NO_x)

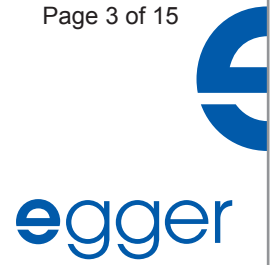
sulfuric oxides (SO_x)



Product Name: cedis Drying Capsules

REF: 87300, 87307, 87309

Date of print: 16.01.2018 Date of last alteration: 16.01.2018



5.3. Advice for firefighters

Special protective equipment for firefighters

In the event of fire, wear self-contained breathing apparatus.

Further information

Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation.

6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.

6.3. Methods and materials for containment and cleaning up

Use mechanical handling equipment. Avoid dust formation. Pick up and transfer to properly labelled containers.

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

Avoid dust formation. Provide sufficient air exchange and/or exhaust in work rooms. Avoid exceeding the given occupational exposure limits (see section 8).

Advice on protection against fire and explosion

No special precautions required.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Keep working clothes separately.

Dust explosion class

No data available.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Store in accordance with the particular national regulations.

Further information on storage conditions

Store in tightly closed containers in a dry place.

7.3. Specific end use(s)

No data available.



Product Name: cedis Drying Capsules

REF: 87300, 87307, 87309

Date of print: 16.01.2018 Date of last alteration: 16.01.2018

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
silicone dioxide	7931-86-9	TWA (Inhalable)	6 mg/m ³	2005-04-06	GB EH40
Further information	<p>15: For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS 14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust. The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m-3 8-hour TWA of inhalable dust or 4 mg.m-3 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit. Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'. Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS 14/3. Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with. Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used.</p>				
		TWA (Respirable)	2,4 mg/m ³	2005-04-06	GB EH40
Further information	<p>15: For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS 14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust. The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m-3 8-hour TWA of inhalable dust or 4 mg.m-3 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit. Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'. Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS 14/3. Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with. Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used.</p>				
Ammonium iron (III) sulphate dodecahydrate	7783-83-7	TWA	1 mg/m ³	2005-04-06	GB EH40
Further information	Iron				
		STEL	2 mg/m ³	2005-04-06	GB EH40
Further information	Iron				



Product Name: cedis Drying Capsules

REF: 87300, 87307, 87309

Date of print: 16.01.2018 Date of last alteration: 16.01.2018



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DNEL Silicone dioxide

End Use: Workers

Exposure routes: Inhalation

Potential health effects: Long-term local effects

Value: 4 mg/kg

Ammonium iron bis(sulphate)

No data available.

PNEC Silicone dioxid

No data available.

Ammonium iron bis(sulphate)

No data available.

8.2. Exposure controls

Engineering measures

Dust must be extracted directly at the point of origin.

Personal protective equipment

Eye protection

Safety glasses.

Hand protection

Material: Butyl-rubber, Natural rubber, Nitrile rubber.

Remarks: The data about break through time/strength of material is not valid for undissolved solids/dust.

Skin and body protection

Wear suitable protective clothing.

Respiratory protection

Avoid breathing dust.

Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust).

Respiratory protective device with particle filter EN 143.

Enviromental exposure controls

General advice

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

Appearance: granular

Colour: orange

Odour: odourless

Odour Threshold: No data available.

ph	> 2,0 - 5,0, Concentration: 50,00 g/l, at 20 °C (aqueous suspension)
Melting point/range	> 1.000 °C



Product Name: cedis Drying Capsules

REF: 87300, 87307, 87309

Date of print: 16.01.2018 Date of last alteration: 16.01.2018

Boiling point/boiling range	No data available.
Flash point	Not applicable.
Evaporation rate	Not applicable.
Flammability	No data available.
Lower explosion limit	No data available.
Upper explosion limit	No data available.
Vapour pressure	Not applicable.
Relative vapour density	Remarks: Not applicable.
Density	No data available.
Bulk density	680 - 780 kg/m ³
Water solubility	practically insoluble.
Partition coefficient: n-octanol/water	Not applicable.
Auto-ignition temperature	No data available.
Thermal decomposition	> 150 °C
Viscosity, dynamic	Not applicable.
Viscosity, kinematic	Not applicable.
Oxidizing properties	No data available.

9.2. Other information

Flammability (contact with water)

No data available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazards to be specially mentioned.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Materials to avoid

None known.

10.6. Hazardous decomposition products

Other information

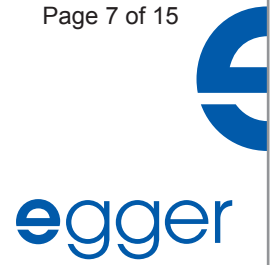
Ammonia



Product Name: cedis Drying Capsules

REF: 87300, 87307, 87309

Date of print: 16.01.2018 Date of last alteration: 16.01.2018



SECTION 11: Toxicological information

11.1. Information on toxicological effects

Product:

Acute oral toxicity

No data available.

Acute inhalation toxicity

No data available.

Acute dermal toxicity

No data available.

Skin corrosion/irritation

No data available.

Serious eye damage/eye irritation

No data available.

Respiratory or skin sensitisation

No data available.

Germ cell mutagenicity

Genotoxicity in vitro

No data available.

Genotoxicity in vitro

No data available.

Carcinogenicity

No data available.

Reproductive toxicity

No data available.

Teratogenicity

No data available.

STOT - single exposure

Remarks: No data available

Repeated dose toxicity

Remarks: No data available.

STOT - repeated exposure

Remarks: No data available.

Further information

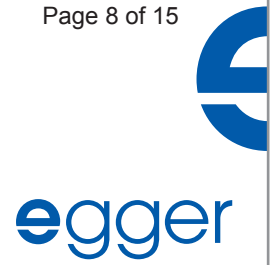
None known.



Product Name: cedis Drying Capsules

REF: 87300, 87307, 87309

Date of print: 16.01.2018 Date of last alteration: 16.01.2018



Components:

Silicone dioxide

Acute oral toxicity

LD50 Oral: > 3.100 mg/kg

Method: OECD Test Guideline 401

GLP: no

Acute inhalation toxicity

LC0 Rat, male and female: 140 mg/l

Exposure time: 4 h

Method: OECD Test Guideline 403

GLP: yes

The substance or mixture has no acute inhalation toxicity.

Remarks: (maximum technically producible dust concentration)

Acute dermal toxicity

LD50 Dermal Rabbit: > 5.000 mg/kg

Method: No information available.

GLP: no

Skin corrosion/irritation

Species: Rabbit

Exposure time: 4 h

Result: No skin irritation

Method: OECD Test Guideline 404

Serious eye damage/eye irritation

Species: Rabbit

Result: Mild eye irritation

Method: OECD Test Guideline 405

Rspiratory or skin sensitisation

Patch test on human volunteers did not demonstrate sensitisation properties.

Germ cell mutagenicity

Genotoxicity in vitro

Type: Ames test

Test species: Salmonella typhimurium, E. coli with and without metabolic activation

Result: negative

Method: OECD Test Guideline 471

GLP: yes

In vitro tests did not show mutagenic effects

Type: Chromosome aberration test in vitro

Test species: Chinese hamster ovary (CHO) cells with and without metabolic activation

Result: negative

Method: OECD Test Guideline 473

GLP: yes

In vitro tests did not show mutagenic effects

Genotoxicity in vivo

No data available

Carcinogenicity

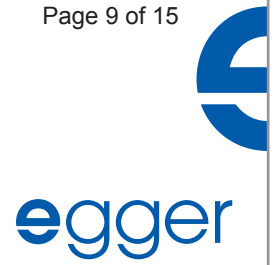
No evidence of carcinogenicity in animal studies.



Product Name: cedis Drying Capsules

REF: 87300, 87307, 87309

Date of print: 16.01.2018 Date of last alteration: 16.01.2018



Reproductive toxicity

No data available

Teratogenicity

No data available

STOT - single exposure

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

Repeated dose toxicity

Rat, male and female: NOAEL: ≥ 4.000 mg/kg

Application Route: Oral

Exposure time: 90-day

Method: OECD Test Guideline 408

STOT - repeated exposure

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

Further information

None known.

Ammonium iron bis(sulfate) dodecahydrate

Acute oral toxicity

No data available.

Acute inhalation toxicity

No data available.

Acute dermal toxicity

No data available.

Skin corrosion/irritation

No data available.

Serious eye damage/eye irritation

No data available.

Respiratory or skin sensitisation

No data available.

Germ cell mutagenicity

Genotoxicity in vitro

No data available.

Genotoxicity in vivo

No data available.

Carcinogenicity

No data available.

Reproductive toxicity

No data available.



Product Name: cedis Drying Capsules

REF: 87300, 87307, 87309

Date of print: 16.01.2018 Date of last alteration: 16.01.2018



egger

Teratogenicity

No data available.

STOT - single exposure

Remarks: No data available.

Repeated dose toxicity

Remarks: No data available.

STOT - repeated exposure

Remarks: No data available.

Further information

None known.

SECTION 12: Ecological information

12.1. Toxicity

Product:

Toxicity to fish

No data available.

Toxicity to daphnia and other aquatic invertebrates

No data available.

Toxicity to algae

No data available.

Toxicity to bacteria

No data available.

Toxicity to fish (Chronic toxicity)

No data available.

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

No data available.

Toxicity to soil dwelling organisms

No data available.

Plant toxicity

No data available.

Toxicity to terrestrial organisms

No data available.

Components:

Silicone dioxide

Toxicity to fish

LL0 (Danio rerio (zebra fish)): 10.000 mg/l

Exposure time: 96 h

Test Method: static test



Product Name: cedis Drying Capsules

REF: 87300, 87307, 87309

Date of print: 16.01.2018 Date of last alteration: 16.01.2018


egger

Test substance: Read across
Method: OECD Test Guideline 203
GLP: No information available

Toxicity to daphnia and other aquatic invertebrates

EL0 (Daphnia magna (Water flea)): 1.000 mg/l
Exposure time: 24 h
Test Method: static test
Test substance: Read across
Method: OECD Test Guideline 202
GLP: No information available.

Toxicity to algae

EL50 (Scenedesmus subspicatus): > 10.000 mg/l
Exposure time: 72 h
Test substance: aluminium sodium silicate (Read across)
Method: OECD Test Guideline 201
GLP: yes

Toxicity to bacteria

GLP
No data available.

Toxicity to fish (Chronic toxicity)

No data available.

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

No data available.

Toxicity to soil dwelling organisms

No data available.

Plant toxicity

No data available.

Toxicity to terrestrial organisms

No data available.

Ammonium iron bis(sulfate) dodecahydrate

Toxicity to fish

No data available.

Toxicity to daphnia and other aquatic invertebrates

No data available.

Toxicity to algae

No data available.

Toxicity to bacteria

No data available.

Toxicity to fish (Chronic toxicity)

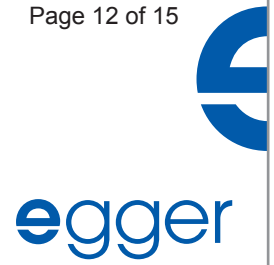
No data available.



Product Name: cedis Drying Capsules

REF: 87300, 87307, 87309

Date of print: 16.01.2018 Date of last alteration: 16.01.2018



Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

No data available.

Toxicity to soil dwelling organisms

No data available.

Plant toxicity

No data available.

Toxicity to terrestrial organisms

No data available.

12.2. Persistence and degradability

Product:

Biodegradability

No data available.

Stability in water

No data available.

Components:

Silicone dioxide

Biodegradability

The methods for determining biodegradability are not applicable to inorganic substances.

Stability in water

No data available.

Ammonium iron bis(sulfate) dodecahydrate

Biodegradability

The methods for determining biodegradability are not applicable to inorganic substances.

Stability in water

No data available.

12.3. Bioaccumulative potential

Product:

Bioaccumulation

No data available.

Partition coefficient: n-octanol/water

Not applicable.

Components:

Silicone dioxide

Bioaccumulation

This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

Partition coefficient: n-octanol/water

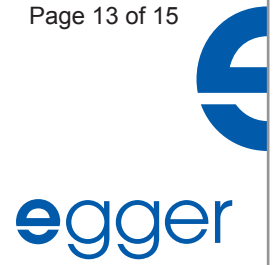
Not applicable.



Product Name: cedis Drying Capsules

REF: 87300, 87307, 87309

Date of print: 16.01.2018 Date of last alteration: 16.01.2018



12.4. Mobility in soil

Product:

Mobility

No data available.

Components:

Silicone dioxide

Mobility

No data available.

Ammonium iron bis(sulfate) dodecahydrate

Mobility

No data available.

12.5. Results of PBT and vPvB assessment

Product:

Assessment

No data available.

Components:

Silicone dioxide

Assessment

This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

Ammonium iron bis(sulfate) dodecahydrate

Assessment

No data available.

12.6. Other adverse effects

Product:

Ozone-Depletion Potential

No data available.

Additional ecological information

None known.

Components:

Silicone dioxide

Ozone-Depletion Potential

No data available

Additional ecological information

None known.

Ammonium iron bis(sulfate) dodecahydrate

Ozone-Depletion Potential

No data available

Additional ecological information

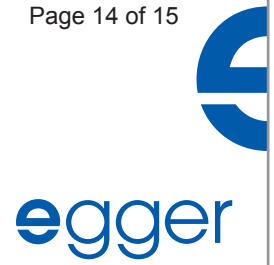
None known.



Product Name: cedis Drying Capsules

REF: 87300, 87307, 87309

Date of print: 16.01.2018 Date of last alteration: 16.01.2018



SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product

In accordance with local and national regulations.

This product cannot be classified with disposal identification key acc. to the EU disposal directives as a classification results from the intended utilisation purpose of the consumer.

SECTION 14: Transport information

14.1 UN number

ADR Not dangerous goods.

IMDG Not dangerous goods.

IATA Not dangerous goods.

14.2. Proper shipping name

ADR Not dangerous goods.

IMDG Not dangerous goods.

IATA Not dangerous goods.

14.3. Transport hazard class

ADR Not dangerous goods.

IMDG Not dangerous goods.

IATA Not dangerous goods.

14.4. Packing group

ADR Not dangerous goods.

IMDG Not dangerous goods.

IATA Not dangerous goods.

14.5. Environmental hazards

ADR Not dangerous goods.

IMDG Not dangerous goods.

IATA Not dangerous goods.

14.6. Special precautions for user

For personal protection see section 8.

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

Major Accident Hazard Legislation 96/82/EC

Update: 16. Dezember 2003

Is not subject to the Seveso II Directive.

ZEU_SEVES3

Update: Not applicable.



Product Name: cedis Drying Capsules

REF: 87300, 87307, 87309

Date of print: 16.01.2018 Date of last alteration: 16.01.2018



15.2. Cemical Safety Assessment

No.

SECTION 16: Other 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.