



## Product Name: cedis Cleaning tablets

REF: 87100, 87130, 87109

Date of print: 16.09.2016 Date of last alteration: 16.09.2016



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

#### 1.1. Product identifier

cedis Cleaning tablets

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

##### Use of the substance/mixture

for cleaning of earmolds in water

##### Uses advised against

any non-intended use.

#### 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](http://www.egger-labor.com)

E-mail: [sales@egger-labor.de](mailto: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 according to Directive 67/548/EEC or 1999/45/EC

Indications of danger: C - Corrosive, Xn - Harmful

R phrases:

Harmful if swallowed.

Causes burns.

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

Hazard categories:

Acute toxicity: Acute Tox. 4

Skin corrosion/irritation: 2

Serious eye damage/eye irritation: 2

Hazard Statements:

Harmful if swallowed.

Causes skin and eye irritation.

#### 2.2. Label elements

##### Hazardous components which must be listed on the label

Potassium monopersulfate

Signal word: Attention



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Pictograms: GHS07



## Hazard statements

H302 Harmful if swallowed.

H314 Causes skin irritation.

## Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P405 Store locked up.

P501 Dispose of contents/container to in accordance with official regulations.

## 2.3. Other hazards

No information available.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous components

EC No.	Chemical name	Quantity
CAS No.	Classification according to Directive 67/548/EEC	
Index No.	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
REACH No.		
<b>274-778-7</b>	<b>Potassium monopersulfate</b>	<b>40 %</b>
70693-62-8	C - Corrosive, Xn - Harmful R22-34	
	Acute Tox. 4, Skin Corr. 1B; H302 H314	
<b>201-069-1</b>	<b>citric acid</b>	<b>15 %</b>
77-92-9	Xi - Irritant R36	
	Eye Irrit. 2; H319	
01-2119457026-42		
<b>207-838-8</b>	<b>sodium carbonate</b>	<b>10 %</b>
497-19-8	Xi - Irritant R36	
011-005-00-2	Eye Irrit. 2; H319	

Full text of R-, H- and EUH-phrases: see section 16.



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### Labelling for contents according to Regulation (EC) No 648/2004

≥ 30 % oxygen-based bleaching agents, < 5 % anionic surfactants, perfumes.

### Further Information

Product does not contain listed SVHC substances.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

In case of accident or if you feel unwell, seek medical advice immediately (show safety data sheet if possible).

#### After inhalation

IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. In case of irritation of the respiratory tract seek medical advice. Apply cortisone spray at early stage.

#### After contact with skin

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water. Immediately call a POISON CENTER or doctor/physician.

#### After contact with eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

#### After ingestion

Rinse mouth thoroughly with water. Let water be swallowed in little sips (dilution effect). Do NOT induce vomiting. Immediately get medical attention.

### 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

The product itself is not combustible.

Carbon dioxide (CO<sub>2</sub>). Dry extinguishing powder. alcohol resistant foam. Water spray.

#### Unsuitable extinguishing media

High power water jet.

### 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>). Sulfur oxides. Nitrogen oxides (NO<sub>x</sub>). Sodium oxides.

### 5.3. Advice for firefighters

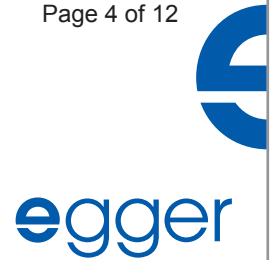
In case of fire and/or explosion do not breathe fumes. Wear a self-contained breathing apparatus and chemical resistant suit.



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### Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Extinguishing materials should be selected according to the surrounding area.

## SECTION 6: Accidental release measures

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

Avoid generation of dust. Do not breathe dust.  
Avoid contact with skin, eye and clothing.  
Wear personal protection equipment. (refer to chapter 8)

### 6.2. Environmental precautions

Dumping into the environment must be prevented.

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

Collect mechanically. Avoid generation of dust.  
Treat the assimilated material according to the section on waste disposal.  
Clean contaminated objects and areas thoroughly observing environmental regulations.

### 6.4. Reference to other sections

See protective measures under point 7 and 8.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Wear suitable protective clothing. (Refer to chapter 8.)  
Conditions to avoid: Generation/formation of dust

#### Advice on protection against fire and explosion

Usual measures for fire prevention.

#### Further information on handling

Avoid contact with skin, eye and clothing. Avoid breathing dust.  
General protection and hygiene measures: refer to chapter 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 from moisture.

#### Advice on storage compatibility

Do not store together with: Explosives. Radioactive materials. Infectious substances. Oxidizing solids. Oxidizing liquids. Food and fodder. Ammonium nitrate and ammonium nitrate-containing substances. Organic peroxides.

#### Further information on storage conditions

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

### 7.3. Specific end use(s)

refer to chapter 1.



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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Exposure limits (EH40)

CAS No	Substance	ppm	mg/ m <sup>3</sup>	fibers/ml	Category	Origin
70693-62-8	Potassium monopersulfate		3		TWA (8 h) STEL (15 min)	

##### Additional advice on limit values

Germany

Air limit values: (Dust, general) 10 mg/ m<sup>3</sup>; E: inhalable fraction of dustAir limit values: (Dust, general ) 1,25 mg/ m<sup>3</sup>; A: respirable fraction of dust

DNEL/DMEL and PNEC values

sodium carbonate (CAS-No.: 497-19-8)

worker

Inhalation, long term exposure - systemic effects: DNEL = 10 mg/m<sup>3</sup>

literature information: MSDS extern.

#### 8.2. Exposure controls



##### Appropriate engineering controls

Dust should be vacuumed up immediately at the place it occurs.

##### Protective and hygiene measures

Always close containers tightly after the removal of product. Do not eat, drink, smoke or sneeze at the workplace. Keep away from food, drink and animal feedingstuffs. Wash hands before breaks and at the end of work. Change contaminated clothing. Wash contaminated clothing prior to re-use.

##### Eye/face protection

Dust protection goggles. DIN EN 166

##### Hand protection

Wear suitable gloves.

Suitable gloves type:

Breakthrough time &gt;480 min

NBR (Nitrile rubber). (0,5 mm)

NR (Natural rubber (Caoutchouc), Natural latex). (0,35 mm)

Butyl rubber. (0,5 mm)

FKM (fluororubber). (0,4 mm)

PVC (Polyvinyl chloride). (0,5 mm)

In the cases of special applications, it is recommended to check the chemical resistance with the manufacturer of the gloves.

Before using check leak tightness / impermeability. In case of reutilization, clean gloves before taking off and store in well-aired place.

##### Skin protection

Suitable protection of the body: Lab apron.



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### Respiratory protection

Respiratory protection required in case of:

exceeding critical value

Generation/formation of dust

insufficient ventilation.

Suitable respiratory protective equipment: Type : P1-P3

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, closed-circuit breathing apparatus must be used!

### Environmental exposure controls

Do not allow uncontrolled leakage of product into the environment.

## SECTION 9: Physical and chemical properties

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

Physical state: solid

Colour: white-blue pigmented

Odour: characteristic

pH-Value:	5,5-9,0
<b>Changes in the physical state</b>	
Melting point:	not determined
<b>Flammability</b>	
Solid:	not determined
<b>Explosive properties</b>	
	none/none
<b>Ignition temperature:</b>	not determined
<b>Auto-ignition temperature</b>	
Solid:	not determined
<b>Oxidizing properties</b>	
	none/none
<b>Density:</b>	not determined
<b>Water solubility:</b>	highly soluble
<b>Solubility in other solvents</b>	not determined
Solvent content:	0% - Data concerning the Directive 1999/13/EC on the limitation of emissions of volatile organic compounds (VOC-RL)

### 9.2. Other information

Solid content: 100%

No information available.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No information available.

### 10.2. Chemical stability

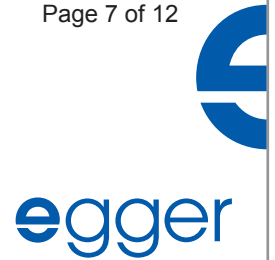
Stable under normal storage and handling conditions.



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### 10.3. Possibility of hazardous reactions

Reacts with: acid. Formation of: Carbon dioxide (CO<sub>2</sub>).

### 10.4. Conditions to avoid

Protect against: UV-radiation/sunlight. heat.  
Avoid generation of dust.

### 10.5. Incompatible materials

acid. Reducing agents.

### 10.6. Hazardous decomposition products

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

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity

Harmful if swallowed.

#### ATEmix calculated

ATE (oral) 1213,6 mg/kg

#### Acute toxicity

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
<b>70693-62-8</b>	<b>Potassium monopersulfate</b>				
	oral	LD50	500 mg/kg	Rat	ECHA Dossier
	dermal	LD50	>2000 mg/kg	Rabbit	
	inhalative (4 h) aerosol	LC50	> 5 mg/l	Rat	ECHA Dossier
<b>77-92-9</b>	<b>citric acid</b>				
	oral	LD50	>5000 mg/kg	Mouse	ECHA Dossier
	dermal	LD50	>2000 mg/kg	Rat	ECHA Dossier
<b>497-19-8</b>	<b>sodium carbonate</b>				
	oral	LD50	2800 mg/kg	Rat	ECHA Dossier
	dermal	LD50	> 2000 mg/kg	Rabbit	ECHA Dossier

#### Irritation and corrosivity

Causes severe skin burns and eye damage.

#### Sensitising effects

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

#### STOT-single exposure

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

#### Severe effects after repeated or prolonged exposure

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

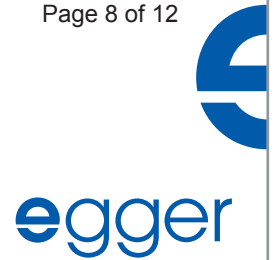
Potassium monopersulfate:



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Subchronic oral toxicity: (90d, Rat.) NOAEL = 200 mg/kg; literature information: ECHA Dossier  
Subacute inhalative toxicity: (14d, Rat.) NOAEC = 0,0014 mg/l; literature information: ECHA Dossier

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

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

Potassium monopersulfate:

In-vitro mutagenicity: OECD Guideline 471 (Bacterial Reverse Mutation Assay) = negative. literature information: ECHA Dossier

OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) = positive. literature information: ECHA Dossier

OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) = positive. literature information: ECHA Dossier

In-vivo mutagenicity: OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) = negative. literature information: ECHA Dossier

Developmental toxicity/teratogenicity: NOAEL = 250 mg/kg(bw)/day; literature information: ECHA Dossier

sodium carbonate:

Developmental toxicity/teratogenicity: NOAEL = 245 mg/kg(bw)/day; literature information: ECHA Dossier

citric acid:

In-vitro mutagenicity: OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) = positive (without metabolic activation). literature information: ECHA Dossier

OECD Guideline 471 (Bacterial Reverse Mutation Assay) = negative. literature information: ECHA Dossier

In-vivo mutagenicity: OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test) = negative. 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.

## **SECTION 12: Ecological information**

### **12.1. Toxicity**

No data available.





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CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	(h) (d)	Species	Source
<b>70693-62-8</b>	<b>Potassium monopersulfate</b>					
	Acute fish toxicity	LD50	53 mg/l	96 h	Oncorhynchus mykiss	ECHA Dossier
	Acute algae toxicity	ErC50	1 mg/l	72 h	Pseudokirchnerella subcapitata	ECHA Dossier
	Acute crustacea toxicity	EC50	3,5 mg/l	48 h	Daphnia Magna	ECHA Dossier
<b>77-92-9</b>	<b>citric acid</b>					
	Acute fish toxicity	LC50	400-760 mg/l	96 h	Leuciscus idus	MSDS extern.
	Acute algae toxicity	ErC50	640 mg/l	96 h	Scenedesmus quadricauda	ECHA Dossier
	Acute crustacea toxicity	EC50	ca. 120 mg/l	48 h	Daphnia magna	MSDS extern.
<b>497-19-8</b>	<b>sodium carbonate</b>					
	Acute fish toxicity	LC50	300 mg/l	96 h	Lepomis macrochirus	ECHA Dossier
	Acute crustacea toxicity	EC50	200-227 mg/l	48 h	Ceriodaphnia sp.	ECHA Dossier

## 12.2. Persistence and degradability

No data available.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
<b>77-92-9</b>	<b>citric acid</b>			
	OECD 301 B test guideline	97 %	28	ECHA Dossier
	Easily biodegradable (concerning to the criteria of the OECD)			

## 12.3. Bioaccumulative potential

No data available.

CAS No	Chemical name	Log Pow
77-92-9	citric acid	-1,57

## 12.4. Mobility in soil

No data available

## 12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

## 12.6. Other adverse effects

No data available.

## Further information

Do not empty into drains or the aquatic environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Advice on disposal

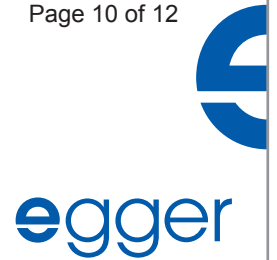
Consult the local waste disposal expert about waste disposal. Cleaned containers may be recycled.



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### Waste disposal number of waste from 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 dangerous substances.

Classified as hazardous waste.

### Waste disposal number of 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 dangerous substances.

Classified as hazardous waste.

### Waste disposal number of 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 dangerous substances

Classified as hazardous waste.

### Contaminated packaging

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

## SECTION 14: Transport information

### Land transport (ADR/RID)

14.1. **UN number:** in accordance with UN shipping name, see section 14.2

14.2. **UN proper shipping name:**

**Land transport according ADR/RID** No dangerous goods

**Inland waterways transport (ADN)** No dangerous goods

**Marine transport (IMDG)** Not classified as "DANGEROUS GOODS"

**Air transport (ICAO)** Not classified as "DANGEROUS GOODS"

14.3. **Transport hazard class(es):** in accordance with UN shipping name, see section 14.2

14.4. **Packing group:** in accordance with UN shipping name, see section 14.2

### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

### 14.6. Special precautions for user

refer to chapter 6-8

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

irrelevant

## SECTION 15: Regulatory information

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

#### EU regulatory information

2004/42/EC (VOC): 0% ; VOC Directive 2004/42/EC: 0g/L

#### Additional information

The preparation is dangerous in the sense of Directive 1999/45/EC.

This preparation is hazardous in the sense of regulation (EC) No 1272/2008 [GHS].

Not subject to regulation 96/82/EC.

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**National regulatory information**

Employment restrictions: Observe employment restrictions for young people. Observe employment restrictions for child bearing mothers and nursing.

Water contaminating class (D): 1 - slightly water contaminating

**15.2. Chemical safety assessment**

Chemical safety assessments for substances in this mixture were not carried out.

**SECTION 16: Other information****Abbreviations and acronyms**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the CAS Chemical Abstracts Service)

DNEL: Derived No Effect Level

IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (International Carriage of Dangerous Goods by Road)

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)

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

NTP: National Toxicology Program

N/A: not applicable

OSHA: Concerning the International Transport of Dangerous Goods by Rail)

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)

SARA: Superfund Amendments and Reauthorization Act

SVHC: substance of very high concern

TRGS Technische Regeln für Gefahrstoffe

**Relevant R-phrases (Number and full text)**

22 Harmful if swallowed.

34 Causes burns.

36 Irritating to eyes.

**Relevant H- and EUH-phrases (Number and full text)**

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H319 Causes serious eye irritation.

**Further Information**

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



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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.)