according to Regulation No. 1907/2006 of the European Parliament and of the Council, as subsequently amended

#### **CLEAMEN 420**

Date of revision: 24. 04. 2025 Version: 5.1

Replaced version from: 30. 03. 2022

Date of issue: 26. 11. 2012

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

#### 1.1. Product identifier

**Product Name** 

#### **CLEAMEN 420**

#### Product code

VC420XXXX99-CLP

#### Chemical name

Sulphuric acid 96 %

#### Chemical formula

H<sub>2</sub>SO<sub>4</sub>

#### CAS Number

7664-93-9

#### EC Number

231-639-5

#### **Index Number**

016-020-00-8

#### Registration Number

01-2119458838-20-XXXX

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

#### Identified uses

Cleaning agent.

For professional use only.

#### Uses advised against

Not known. It is recommended to use it only for the intended use. Other uses may expose users to unpredictable risks.

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

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#### **CLEAMEN 420**

#### CORMEN s.r.o.

Věchnov 73

593 01

Česká republika

Tel.: +420 566 550 961 Fax: +420 566 551 822

e-mail address for a competent person responsible for the SDS: info@cormen.cz

## 1.4. Emergency telephone number

112 (General emergency phone).

## **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

The substance is classified as hazardous according to regulation 1272/2008/EC.

#### Classification according to 1272/2008/EC

Skin Corr. 1A; H314

Full text of classifications and H-phrases: see section 16.

#### The most important adverse physical, human health and environmental effects

Causes severe skin burns and eye damage.

#### 2.2. Label elements

#### Hazard pictograms



#### Signal word

Danger.

#### Identification number

016-020-00-8

#### Hazard statements

H314 Causes severe skin burns and eye damage.

#### Precautionary statements

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

P310 Immediately call a POISON CENTER/doctor.

P501 Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation. Dispose of the cleaned packaging without any residual product content in the sorted waste.

Supplemental hazard information

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Mandatory additional information is not required according to CLP regulation.

The product contains a substance that is a precursor to explosives. The acquisition, importation, possession or use of this product by the general public is restricted by Regulation 2019/1148/EC. All suspicious transactions and significant disappearances and thefts must be reported to the appropriate national contact point.

#### 2.3. Other hazards

The substance does not meet the criteria for persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) in accordance with Annex XIII of REACH regulation. The substance is not mentioned on the Candidate list for possible inclusion in Annex XIV of REACH at the date of the revision of the safety data sheet (established in accordance with Article 59(1) of REACH regulation. The substance was not identified as endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

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

#### 3.1. Substances

#### 3.1.1. Identity of the main constituent

Identification of	Content	Classification according
substance	wt. %	to 1272/2008/EC

#### Sulphuric acid

CAS Number 7664-93-9

EC Number 231-639-5 > 92

Index Number 016-020-00-8
Registration Number 01-2119458838-20-XXXX

The substance has specific concentration limits:

Skin Corr. 1A; H314 C ≥ 15 %

Skin Irrit. 2; H315  $5 \% \le C < 15 \%$ Eye Irrit. 2; H319  $5 \% \le C < 15 \%$ 

## 3.1.2. The chemical identity of any impurity, stabilising additive, or individual constituent other than the main constituent

Are not identified.

Full text of classifications and H-phrases: see section 16.

## **SECTION 4: First aid measures**

In all cases keep the victim at physical and mental rest and warm. In case of doubt or if symptoms persist, seek medical attention. Never give anything by mouth if victim is rapidly losing consciousness, unconscious or convulsing. Protect yourself during rescue work.

#### 4.1. Description of first aid measures

#### Inhalation

Interrupt the exposure, move the person to the fresh air. In case of persistent nausea, seek medical advice.

#### Skin contact

Remove contaminated clothing, shoes and thoroughly remove acid from the skin with a dry and clean cloth. Do not use water if acid is in contact with skin. After removing the acid, wash the skin with water (preferably lukewarm) and soap. Immediately seek medical advice.

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Skin Corr. 1A; H314

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#### Eye contact

Immediately wipe the affected eye thoroughly with a dry and clean cloth. Do not use water unless the eye is acid-free. After rinse with a gentle stream of water for at least 15 minutes. Keep your eyelids wide open with your thumb and forefinger. If the affected person is wearing contact lenses, remove them before rinsing eyes if it is easy. Immediately seek medical advice.

#### Ingestion

Rinse your mouth and then drink plenty of water. Do not induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Seek medical advice.

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

Are not known.

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

Treat symptomatically and supportively.

## **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

#### Suitable extinguishing media

Foam, dry extinguishing agent, carbon dioxide (CO<sub>2</sub>).

## Unsuitable extinguishing media

Solid streams of water may be ineffective.

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

In case of fire extinguishing prevent leakage of water and rest of product into drains. Collect them separately and dispose of safely in accordance with current legislation and applicable local regulations.

In case of fires, hazardous combustion gases are formed: sulphur oxides, hydrogen sulphide and products of incomplete combustion.

## 5.3. Advice for firefighters

Stop further leakage of product if possible. Spilled product, which does not burn, cover with sand or foam. Move containers and barrels away from the fire to a safe place, if possible. Cool all affected containers down with flooding quantities of water. If the fire can't be extinguished - evacuate the premises.

In case of fire, wear suitable respiratory protective equipment and fire-fighting suit.

## SECTION 6: Accidental release measures

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

Avoid contact with skin and eyes, use suitable protective equipment and clothing, see Section 8. Ensure adequate ventilation. Avoid formation of vapour and aerosol. At the point of leakage, prevent the movement of unauthorized persons.

#### 6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. If this cannot be avoided, inform the competent authorities (police and firefighters) immediately.

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

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According to the amount of spilled liquid, drain away the substance (large spillage) or in case of small spillage, absorb it with suitable absorbent (vermiculite, dry sand), put into labelled closed containers and dispose of them accordingly to Section 13. Flush residues with water and collect it for waste disposal. Do not use solvents or dispersants unless instructed by an expert or government authority.

If container is damaged, remove the content to the new undamaged container and label it properly again.

#### 6.4. Reference to other sections

Refer also to the provisions of sections 7, 8 and 13 of this safety data sheet.

## **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Avoid contact with skin and eyes. Personal protection see Section 8. Ensure good ventilation to prevent formation of vapour and aerosol.

Smoking, eating and drinking should be prohibited at the place of use. Keep safety regulations for handling chemicals. Take off contaminated clothing and protective equipment before entering the dining area. Do not use dirty clothing. After work wash yourself carefully with warm water and soap, take a shower. Use protective cream.

#### 7.2. Conditions for safe storage, including any incompatibilities

Store in original, tightly closed containers, in a dry, cool and well-ventilated place at room temperature.

Do not store together with incompatible materials (see subsection 10.5), food, drink and feed.

Store from incompatible materials and locked.

No decomposition is observed when the intended storage and use is observed.

#### 7.3. Specific end use(s)

The product is intended for cleaning plastic and ceramic waste, sinks, showers, toilets, sewers, etc.

The liquid preparation contains concentrated sulfuric acid, which is heated rapidly by pouring into a siphon. The product removes rust and limescale. It is not recommended to use this product on old rusty steel waste pipes. Be careful not to damage the surroundings of the waste, especially colored plastic, by contact with acid parts of the sink.

The preparation is used undiluted, it is slowly poured directly from the bottle in the prescribed amount into the cleaned waste. After pouring the product into the waste, leave it on for 15-30 minutes and then rinse with plenty of water. In case of completely clogged waste, first aspirate the water, mechanically release the available parts of the waste and then gradually dose the product in small doses.

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

#### 8.1. Control parameters 8.1.1. Exposure limit value Sulphuric acid - mist CAS: 7664-93-9 Limit values - Eight hours Limit values - Short-term Note $0.05 \text{ mg/m}^3$ - ma/m<sup>3</sup>- ppm - ppm 8.1.2. Biological limit values Not determined in EU. 8.1.3. DNEL and PNEC values Sulphuric acid CAS: 7664-93-9 **DNEL**

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Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Local effect	Long term	0.05 mg/m <sup>3</sup>
Workers	Inhalation	Local effect	Acute/short term	0.1 mg/m <sup>3</sup>

PNEC - not yet available

#### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

Use only in well-ventilated areas.

Observe usual safety precautions for working with chemicals. The degree of effectiveness of personal protective equipment depends on temperature and ventilation levels.

#### 8.2.2. Individual protection measures, such as personal protective equipment

Do not eat, drink or smoke. After work, wash thoroughly with warm water and soap and take a shower. Use protective cream. Do not soiled protective equipment to wash, do not use solvents.

#### Eye/face protection

Wear safety glasses or face shield (EN 166, EN 149+A1).

#### Skin protection - hand protection

Wear protective gloves (EN 374-1, EN 374-2).

Recommended gloves material: natural rubber, nitrile rubber, neoprene, polyvinyl chloride, viton breakthrough time: > 480 min.

The selection of the glove material on consideration of the breakthrough time, permeability, degradation and next relevant factors; other chemicals that may come into contact, physical requirements (cut and puncture protection, dexterity, thermal protection), possible body reactions to the glove material and the glove supplier's instructions and specifications. In case of repeated use of gloves, clean and keep them in a well-ventilated place before taking off.

#### Skin protection - other

Suitable protective working clothing and footwear.

#### Respiratory protection

Not necessary in case of compliance concentration limits (if they were exceeded, use a respirator against mist or sulfur oxides). In the event of an accident or a fire use self-contained breathing apparatus.

#### Thermal hazards

In normal use is not necessary protective equipment to be worn for materials that represent a thermal hazard.

#### 8.2.3. Environmental exposure controls

Uncontrolled release of the substance into environment is to be avoided. Keep the emission limits according to national legislation.

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

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

Sulphuric acid CAS: 7664-93-9

Physical stateLiquid.ColourColourless.OdourOdourless.

Melting point/freezing point -15 °C (95 - 98% solution).

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Boiling point or initial boiling point and boiling

range

Flammability The substance is not classified as flammable,

pyrophoric or emit flammable gases under

standard conditions.

330 °C (95 - 98% solution).

Lower explosion limitNot determined.Upper explosion limitNot determined.

Flash point Not determined, it is an inorganic substance.

Auto-ignition temperature Not determined.

Decomposition temperature Not determined, it is not a self-reactive substance

or an organic peroxide or a substance that may

decompose.

**pH** < 1.

Kinematic viscosity

Not determined, it is not a hydrocarbon or a

chlorinated hydrocarbon.

**Solubility** Miscible with water.

Partition coefficient n-octanol/water (log value) Not determined, it is an inorganic substance.

Vapour pressure 0.485 hPa (75% sulphuric acid, OECD 104).

**Density and/or relative density**  $D_4^{20} = 1.84 (93 - 100\% \text{ sulphuric acid, OECD } 109).$ 

Relative vapour density

Not determined.

Particle characteristics Does not apply to liquid.

#### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

Sulphuric acid CAS: 7664-93-9

#### **Explosives**

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive properties.

#### Flammable gases

It is not gas.

#### Aerosols

It is not aerosol.

#### Oxidising gases

It is not gas.

#### Gases under pressure

It is not gas.

#### Flammable liquids

Data for the substance are not available.

The substance is not classified as a flammable liquid, it is an inorganic substance.

#### Flammable solids

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It is not solid.

#### Self-reactive substances and mixtures

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive or self-reactive properties.

#### Pyrophoric liquids

Data for the substance are not available.

The substance is stable in air, there is no spontaneous ignition.

#### Pyrophoric solids

It is not solid.

#### Self-heating substances and mixtures

Data for the substance are not available.

The substance is not classified as self-heating.

#### Substances and mixtures, which emit flammable gases in contact with water

Data for the substance are not available.

The chemical structure of the substance does not contain metals or metalloids.

The substance is miscible with water and forms a stable mixture with it.

#### Oxidising liquids

Data for the substance are not available.

It is an inorganic substance does not contain chemical groups associated with oxidising properties.

#### Oxidizing solids

It is not solid.

#### Organic peroxides

Data for the substance are not available.

The substance does not contain a bivalent group -O-O- with at least one organic radical.

#### Corrosive to metals

Data for the substance are not available.

The substance is not classified as corrosive to metal.

## Desensitised explosives

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive properties.

#### 9.2.2. Other safety characteristics

**Mechanical sensitivity**Not determined, it is not an explosive substance.

**Self-accelerating polymerisation temperature**Not determined, it is not a polymerising substance.

Formation of explosible dust/air mixtures Not determined, it is not a dust.

Acid/alkaline reserve Not determined.

Evaporation rateNot determined.MiscibilityNot determined.

**Conductivity** Not determined.

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Corrosiveness Not determined.

Gas group Not determined, it is not gas.

Redox potentialNot determined.Radical formation potentialNot determined.Photocatalytic propertiesNot determined.

Odour threshold 0.1 ppm

Dissociation constant (pKa) 1.92

## **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

Reacts with metals to form hydrogen. Exothermic reaction with bases and water.

#### 10.2. Chemical stability

Stable under recommended storage conditions.

## 10.3. Possibility of hazardous reactions

Reacts with metals to form hydrogen. Exothermic reaction with bases and water. Carbonizes most organic substances. Spontaneous combustion may occur in high concentrations in contact with flammable substances.

#### 10.4. Conditions to avoid

Protect from humidity, high temperature and contact with incompatible substances.

Protect from frost.

#### 10.5. Incompatible materials

Strong bases, bases, carbides, powder metals, chlorates, perchlorates, nitrates, picrates, strong oxidizing agents, permanganates, alkali metals, flammable materials.

#### 10.6. Hazardous decomposition products

Burning releases sulphur oxides, hydrogen sulphide and products of incomplete combustion.

## **SECTION 11: Toxicological information**

## 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Sulphuric acid CAS: 7664-93-9

Acute toxicity

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

 $LD_{50} = 2 140 \text{ mg/kg bw (rat, literature)}.$ 

**Dermal** Data for the substance are not available.

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

 $LC_{50} = 375 \text{ mg/m}^3 \text{ (rat, 4 h, aerosol, OECD 403)}.$ 

#### Skin corrosion/irritation

The substance is classified as skin corrosion in category 1A according to harmonized classification.

#### Serious eye damage/irritation

The substance is classified as seriously damaging to the eyes according to harmonized classification.

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#### Respiratory or skin sensitisation

Data for the substance are not available.

#### Germ cell mutagenicity

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

Negative (bacterial reverse mutation assay, in vitro mammalian chromosome aberration test).

#### Carcinogenicity

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

NOAEL = 0.5 ml (0.6% solution, rat, oral).

NOAEC = 100 mg/l (hamster, inhalation-aerosol).

#### Reproductive toxicity

Data for the substance are not available.

#### STOT – single exposure

Data for the substance are not available.

#### STOT - repeated exposure

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

LOAEC = 0.3 mg/m<sup>3</sup> (rat, inhalation-aerosol, 28 days, OECD 412).

#### Aspiration hazard

The substance is not a hydrocarbon or a chlorinated hydrocarbon with a kinematic viscosity of 20.5 mm<sup>2</sup>/s or less at 40 °C.

#### Other information

See sections 2 and 4.

#### 11.2. Information on other hazards

The substance does not meet the criteria for persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) in accordance with Annex XIII of REACH regulation. The substance is not mentioned on the Candidate list for possible inclusion in Annex XIV of REACH at the date of the revision of the safety data sheet (established in accordance with Article 59(1) of REACH regulation.

The substance was not identified as endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. There is no other relevant information on adverse health effects that is not required according to the classification criteria set out in CLP Regulation.

## **SECTION 12: Ecological information**

#### 12.1. Toxicity

Sulphuric acid CAS: 7664-93-9

The substance is not classified as hazardous for the aquatic environment.

#### Fish

LC<sub>50</sub>, 96 hrs., Lepomis macrochirus: > 16 - < 28 mg/l (mortality, literature).

NOEC, Salvelinus fontinalis: 0.31 mg/l (larval development, literature).

#### Crustaceans

EC<sub>50</sub>, 24 hrs., Daphnia Magna: > 100 mg/l (mobility, OECD 202).

#### Algae

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EC<sub>50</sub>, 72 hrs., Desmodesmus subspicatus: > 100 mg/l (growth rate, OECD 201).

#### 12.2. Persistence and degradability

Sulphuric acid CAS: 7664-93-9

Not determined, it is an inorganic substance.

#### 12.3. Bioaccumulative potential

Sulphuric acid CAS: 7664-93-9

Not determined, it is an inorganic substance.

#### 12.4. Mobility in soil

Sulphuric acid CAS: 7664-93-9

Not determined, it is an inorganic substance.

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

The substance does not meet the criteria for persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) in accordance with Annex XIII of REACH regulation. The substance is not mentioned on the Candidate list for possible inclusion in Annex XIV of REACH at the date of the revision of the safety data sheet (established in accordance with Article 59(1) of REACH regulation.

#### 12.6. Endocrine disrupting properties

The substance is not mentioned on the Candidate list for possible inclusion in Annex XIV of REACH at the date of the revision of the safety data sheet (established in accordance with Article 59(1) of REACH regulation. The substance was not identified as endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

## 12.7. Other adverse effects

Data are not available.

## **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

#### Disposal methods of the substance or mixture and the contaminated packaging

Dispose according to the applicable European and local regulations (eg. in a hazardous waste incinerator). Do not empty unused product into drainage systems. Do not contaminate ponds or ditches with the product or used container. Hand over the residual amounts and solutions to a licensed disposal company.

Hand over the remaining quantities and unregenerate solutions to an authorized person (specialized company with authorization) or to the collection yard in the hazardous waste section according to the worker's instructions. Empty, cleaned packaging can be stored at a landfill of the appropriate category or **in the sorted waste.** 

#### Possible waste code

06 01 01\* - sulphuric acid and sulphurous acid (substance), 15 01 10\* - packaging containing residues of or contaminated by hazardous substances (contaminated packaging), 15 01 02 - plastic packaging (clear packaging).

#### Physical/chemical properties that may affect waste treatment options

Not known.

#### Special precautions recommended for waste management

Not known.

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#### Waste legislation

Directive 2008/98/EC on waste and repealing certain Directives, as amended.

## **SECTION 14: Transport information**

This product is not classified as a dangerous for transportation (ADR/RID, IMDG, ICAO/IATA).

#### 14.1. UN number or ID number

UN 1830.

## 14.2. UN proper shipping name

SULPHURIC ACID.

## 14.3. Transport hazard class(es)

8.

## 14.4. Packing group

ш

#### 14.5. Environmental hazards

It is not dangerous for the environment during transport.

## 14.6. Special precautions for user

Not given.

## 14.7. Maritime transport in bulk according to IMO instruments

Not available.

## 14.8. Other information

#### Labeling according to ADR



#### Additional data for ADR/RID

Classification code C1
Labels 8
Hazard identification code 80

Tunnel restriction code E (ADR), - (RID)

Limited quantities 1 I

Excepted quantities Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

Transport category 2

Additional data for IMDG

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#### **CLEAMEN 420**

Emergency Schedules (EmS) F-A/S-B.

## **SECTION 15: Regulatory information**

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

Regulation No. 1907/2006/EC, concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals, as amended (REACH)

Regulation No. 1272/2008/EC, on Classification, Labelling and Packaging of substances and mixtures, as amended (CLP)

Regulation No. 648/2004/EC on detergents, as amended

Regulation No. 2019/1148/EC on the marketing and use of explosives precursors, as amended

#### 15.2. Chemical safety assessment

Performed for substance.

#### SECTION 16: Other information

#### Reason for the revision of the safety data sheet

Change of the labeling of the substance. Change in section 8, 11, 16.

#### Key or legend to abbreviations and acronyms

Eye Irrit. 2 Eye irritation, cat. 2
Skin Corr. 1A Skin corrosion, cat. 1A
Skin Irrit. 2 Skin irritation, cat. 2

ADR Accord Dangereuses Route

CLP Regulation No. 1272/2008/EC, on Classification, Labelling and Packaging of subs-

tances and mixtures

DNEL Derived No Effect Level

ICAO/IATA International Air Transport Association
IMDG International Maritime Dangerous Goods
PBT Persistent, bioaccumulative, toxic substance

PNEC Predicted No Effect Concentration

REACH Regulation No. 1907/2006/EC, concerning the Registration, Evaluation, Authorisation

and Restriction of Chemicals

RID Regulation concerning the International Carriage of Dangerous Goods by Rail

STOT Specific target organ toxicity

vPvB Very persistent and very bioaccumulative substance

#### Sources of key data used to compile the Safety Data Sheet

European legislation, manufacturer's safety data sheet, registration dossier of substances.

### List of H- and P- phrases

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

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#### **CLEAMEN 420**

P280 P310	Wear protective gloves/protective clothing/eye protection/face protection.  Immediately call a POISON CENTER/doctor.
P501	Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. Dispose of the cleaned packaging without any residual product content in the sorted waste.

#### Training advice

According to SDS.

#### Other information

Classification according to data from the manufacturer. Use only for the purposes designated by the manufacturer, will prevent health and environmental risks.

The information in this safety data sheet has been prepared according to the best available knowledge. The safety data sheet has been compiled in good faith but without guarantee. Various factors may influence properties under specific conditions. It is the responsibility of the product user to assess the accuracy of the information for their specific application. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

The safety data sheet is prepared in accordance with Regulation No. 2020/878/EC. There is no additional information in accordance with the local and national legislation of the Member State in the European Union, in the safety data sheet.

The safety data sheet was prepared by LACHEPRA s.r.o.

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