

Safety Data Sheet according to regulation (EC) no. 1907/2006 (changed by regulation (EU) no. 453/2010)

Created: 23rd November 2010

Revised: 26th September 2018

Valid starting from: 26th September 2018

Version: 1.3

Replacing Version: 1.2

1. Designation of substance or rather of mixture and of company

1.1. Product identification

Substance name/ Trade name: ChiProPlant, water soluble

Chitosan EC-No.: 200-638-1

CAS-No.: 9012-76-4

REACH registration No.: 17-2119456686-25-0000

Different Designation: Poly-D-Glucosamin

1.2. Relevant identified uses of substance or mixture and uses that are not recommended

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1.2. Detail on supplier that provides safety data sheet

Producer / Supplier

ChiPro GmbH

Street

Anne-Conway-Str. 1

Postal Code/City

28359 Bremen

Contact department for technical information

Dr. Siegfried Bank

Telephone / Telefax / E-Mail

+49 421 3651 7073 / +49 421 27656920 / sbank@chipro.de

1.1. Emergency number

Poison information centre north +49 551 19240

2. Possible Dangers

2.1. Classification of substance or mixture

Classification in accordance to regulation (EC) no. (EC) No 1107/2009:

Basic Substance Chitosan hydrochloride SANCO/12388/2013– rev. 2 20 March 2014:

According (EG) Nr. 1272/2008, Anhang VII (substances):

This substance is not classified as hazardous/poisonous.

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2.2. Elements of characterization

Elements of characterization in accordance to regulation (EC) no. 1272/2008 (substances)/
directive 1999/45/EC (mixtures)

Icon / Hazard symbol

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Signal word / hazard term: Attention

Hazard indications / R-sentences

H319 irritation of the eye

H335 Specific target toxicity organ irritation of respiratory tracts

Security indications / S-sentences

P402 Store in dry place

P232 Protect from moisture

P233 Keep container firmly closed

P235 Keep cooled

P262 Do not let touch eyes, skin or clothing

P305+P351+P338+P313 IN CASE OF CONTACT WITH EYES: Rinse carefully several minutes with water.
Continue rinsing. Consult/contact medical help.

P302+P352 IN CASE OF CONTACT WITH SKIN: Wash with a lot of water and soap.

P342+P311 in case of symptoms of respiratory tracts: Call doctor.

P301+P101 IN CASE OF SWALLOWING: If medical consultation necessary, keep packaging or label

Further elements of characterization

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2.3. Additional hazards

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3. Composition / Particulars on components

3.1. Substances

This substance is no mixture.

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Replacing Version: 1.2

3.2. Mixtures

Name of substance: Poly-D-Glucosamine

EC-no. : 200-638-1

CAS-no. : 9012-76-4

Index-no. : --

REACH-pre-registration no. : 17-

2119456686-25-0000

4. First aid measures

4.1. Description of first aid measures

After inhaling

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After skin contact

Rinse with a lot of water

After eye contact

Rinse carefully for several minutes with water. Remove contact lenses if possible. Continue rinsing.

Consult doctor / get medical help.

After swallowing

If medical help is necessary, have packaging or label ready.

4.2. Most important acute and delayed symptoms and effects

Irritation/ reddening of eyes/skin/mucous membrane. Nausea after swallowing.

4.3. Advice on immediate medical help or special treatment

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5. Measures of fire fighting

5.1. Means of extinguishing fire

Suitable: Extinguishing powder, foam, water spraying jet

Unsuitable: Full water jet

5.2. Particular hazards of substance or mixture

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5.3. Advice on fire fighting

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6. Measures in case of unintentional release

6.1. Personal precautionary measure, protective equipment and measures in case of emergency

Avoid contact with eyes or mucous membrane.

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6.2. Environmental conservation measure

Do not let reach water.

6.3. Methods and material for holding and cleansing

Clear away mechanically or dilute strongly with water.

6.4. Reference to other sections

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7. Application and storage

7.1. Protective measures for safe application

Avoid contact with eyes and mucous membrane.

Protective measures from fire and explosion

The mixture is not an explosive hazard.

Measures to avoid dust dispersion and aerosols

Avoid strong drafts when containers are open

Measures of environmental protection

Do not release into water.

General hygiene measures

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7.2. Conditions for safe storage with consideration for incompatibility

Information on storage conditions

Store in dry place
Protect from moisture
Keep container closed firmly
Keep cooled

Requirements for storage room and containers

Storage category: --

7.3. Specific final applications

Industry and sector specific guidelines: --

8. Restriction and monitoring of exposition / Personal safety equipment

8.1. Parameter to monitor

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8.1.1. Limiting values of exposition at workspace and/or biological limiting values Workspace limiting values (AGW) Germany

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8.1.2. DNEL- and PNEC- values

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8.1.3. Control-Banding (f.ex. ILO, EMKG)

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8.2. Restriction and monitoring of exposition

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8.2.1. Suitable technical controlling equipment

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8.2.2. Individual safety measure – personal safety equipment

Eye / Face protection

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Skin protection

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Additional skin protection

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Breath protection

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Heat / Cold protection

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8.2.3. Restriction and monitoring of environmental exposition

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9. Physical and chemical characteristics

9.1. Details on fundamental physical and chemical characteristics

Appearance

State : Solid

Color : White – light yellow

Smell : Slightly sour

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Smell threshold : --
pH-value : 4-5 in 1% solution
Melting point/freezing point : --
Boiling begin and boiling range : --
Flashpoint: --
Vaporization speed : --
Inflammability : --
Upper/lower inflammability and explosive range : --
Steam pressure : --
Steam density : --
Relative density : --
Solubility : Water
Distribution coefficient : --
n-octanol/water : --
self-inflammability temperature : --
Corrosion temperature : --
Viscosity : 7 -7 cps in 1% solution
Explosive characteristics : --
Oxidizing characteristics : --

9.2. Additional details

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10. Stability and reactivity

10.1. Reactivity

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10.2. Chemical stability

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10.3. Possibly hazardous reactions

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10.4. Conditions to avoid

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10.5. Incompatible materials

Do not mix with alkaline herbicides, pesticides, fungicides, fertilizer.

10.6. Hazardous products of decomposition

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11. Toxicological data

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11.1. Data on toxicological effects

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Hazard categorization of substances

acute toxicity --

etching/ irritating effect on skin --

serious eye damage/irritation --

sensitization of respiratory tracts/skin --

germ cell mutagenicity --

carcinogenicity --

reproductive toxicity --

specific target organ toxicity on singular exposition --

specific target organ toxicity on repeated exposition --

aspiration hazards --

Following effects for mixtures

acute toxicity --

irritation Irritation of eye and mucous membrane

etching effect --

sensitization --

toxicity in case of repeated administering --

carcinogenicity --

mutagenicity --

reproductive toxicity --

Symptoms and effects (delayed and chronic) with declaration of ways of exposition

also: Information on toxicokinetic, metabolism and distribution

12. Environmental data

12.1. Toxicity

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12.2. Persistence and degradability

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12.3. Bioaccumulation potential

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12.4. Mobility in soil

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12.5. Result of PBT- and vPvB-assessment

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12.6. Other harmful effects

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13. Indications on disposal

13.1. Process of waste treatment

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Treatment of contaminated packaging

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Garbage key in accordance with Garbage Disposal Decree (AVV)

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Special precautionary measures

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Respective EU or other regulations

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14. Indications on transportation

14.1. UN number

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14.2. UN dispatch marking in accordance with regulation ADR/RID

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IMDG-Code / ICAO-TI / IATA-DGR

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14.3. Transportation hazard classification

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14.4. Packaging class

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14.5. Environmental hazards

Marking environmentally hazardous substances

ADR/RID / IMDG-Code / ICAO-TI / IATA-DGR: yes / no

Marine Pollutant: yes / no

14.6. Special precautionary indications for applier

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14.7. Mass transportation in accordance with appendix II of MARPOL-settlement 73/78 and in accordance with IBC-Code

Soiling category (X,Y or Z) :

Ship type (1,2 or 3) :

15. Legal provisions

15.1. Regulations on safety, health and environmental protection/ specific legal provisions for substance or mixture

EU regulations e.g.

Regulation (EC) no. 2037/2000 (substances that lead to deterioration of the ozone layer) :

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Regulation (EC) no. 850/2004 (persistent organic pollutant) :

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Regulation (EC) no. 689/2008 (export and import of hazardous chemicals) :

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Restrictions in accordance to heading VIII of regulation (EC) 1907/2006 :

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National regulations e.g.

No clash

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Other relevant regulations

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15.2. Substance safety assessment

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16. Other data

Changes in relation to last version

REACH conformity

Abbreviations

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Bibliographical reference and data source

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Methods used in accordance with article 9 of regulation (EC) no. 1272/2008 for the evaluation of information for the purpose of classification

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Wording of R-sentences, hazard indications, safety advice and/or safety indications which are referenced in sections 2 to 15

H319 eye irritation

H335 specific target organ toxicity respiratory tract irritation

Training for employees

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CLP-labeling of mixtures (until 2015 as voluntary information in addition to label in accordance with RL 1999/45/EC)

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Further information

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