



DENIMCOL NCD

Version 2.0

Revision Date 15.11.2016

Print Date 16.11.2016

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

1.1 Product identifier

Trade name : DENIMCOL NCD

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

Use of the Sub-
stance/Mixture : Textile auxiliary

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier

CHT R. BEITLICH GMBH
Bismarckstraße 102
72072 Tübingen
Germany
Tel.: +49(0)70 71 15 40
info@cht.com

BEZEMA AG
Kriessernstrasse 20
9462 Montlingen
Switzerland
Tel.: +41(0)71 763 88 11
bezema@bezema.com

Importer : -
-
-
-
-
-

Responsible Department : CHT R. BEITLICH GMBH
BEZEMA AG
Product Safety
msds@cht.com
product.safety@bezema.com

1.4 Emergency telephone number

Emergency telephone : +49(0)70 71 15 40 (Germany, 24 hours)
number : +41(0)71 763 88 11 (Switzerland, 24 hours)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin corrosion, Category 1A

H314: Causes severe skin burns and eye damage.

DENIMCOL NCD

Version 2.0

Revision Date 15.11.2016

Print Date 16.11.2016

Serious eye damage, Category 1

H318: Causes serious eye damage.

Specific target organ toxicity - single exposure, Category 3, Respiratory system

H335: May cause respiratory irritation.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements :

H314
H335

Causes severe skin burns and eye damage.
May cause respiratory irritation.

Precautionary statements :

Prevention:

P260
P280

Do not breathe dust or mist.
Wear protective gloves/ protective clothing/
eye protection/ face protection.

Response:

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.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

Hazardous components which must be listed on the label:

Silicic acid, disodium salt, pentahydrate

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature

: Colloidsystem based on inorganic salts

DENIMCOL NCD

Version 2.0

Revision Date 15.11.2016

Print Date 16.11.2016

Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Silicic acid, disodium salt, pentahydrate	10213-79-3 01-2119449811-37	Skin Corr.1B; H314 STOT SE3; H335	>= 70 - < 90
sodium carbonate	497-19-8 207-838-8 01-2119485498-19	Eye Irrit.2; H319	>= 10 - < 20

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Take off all contaminated clothing immediately.
First aider needs to protect himself.
Show this safety data sheet to the doctor in attendance.
- If inhaled : Move to fresh air.
If symptoms persist, call a physician.
- In case of skin contact : Wash off immediately with plenty of water.
Call a physician immediately.
- In case of eye contact : In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Call a physician immediately.
- If swallowed : Rinse mouth with water.
Do NOT induce vomiting.
Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

- Risks : Refer to section 2 and 11.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : Treat symptomatically.



DENIMCOL NCD

Version 2.0

Revision Date 15.11.2016

Print Date 16.11.2016

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Carbon dioxide (CO₂)
Water spray
Dry powder
Foam

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Hazardous decomposition products formed under fire conditions.
Can be released in case of fire:
Carbon oxides

5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus and protective suit.

Further information : The product itself does not burn.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Suppress (knock down) gases/vapours/mists with a water spray jet.
In case of fire do not inhale smoke, conflagration gases and steams.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.

6.2 Environmental precautions

Environmental precautions : The product should not be allowed to enter drains, water courses or the soil.
Pay attention to local or official regulations.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Use mechanical handling equipment.
Avoid dust formation.
Dispose of in accordance with local regulations.



DENIMCOL NCD

Version 2.0

Revision Date 15.11.2016

Print Date 16.11.2016

6.4 Reference to other sections

Refer to protective measures listed in sections 7 and 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Advice on safe handling : Avoid creating dust.
- Advice on protection against fire and explosion : No special protective measures against fire required.
- Hygiene measures : Avoid contact with skin, eyes and clothing.
Do not breathe dust.
Take off all contaminated clothing immediately.
Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Do always store in containers which correspond to the original ones.
Keep container tightly closed.
Keep in a dry, cool place.
Inappropriate material for containers and conduit:
Aluminium
Light metals
Zinc
Suitable material for containers and conduit:
Polyethylene
- Further information on storage conditions : Protect from humidity and keep away from water.
Prevent formation of dust and deposition.
Protect from temperatures over + 40 °C.
- Advice on common storage : Do not store together with:
Acids
- Storage class (TRGS 510) : 8B, Non-combustible, corrosive hazardous materials

7.3 Specific end use(s)

- Specific use(s) : Consult the technical guidelines for the use of this substance/mixture.



DENIMCOL NCD

Version 2.0

Revision Date 15.11.2016

Print Date 16.11.2016

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Silicic acid, disodium salt, pentahydrate	:	End Use: Workers
		Exposure routes: Inhalation
		Potential health effects: Long-term systemic effects
		Value: 6,22 mg/m ³
		End Use: Workers
		Exposure routes: Skin contact
		Potential health effects: Long-term systemic effects
		Value: 1,49 mg/kg
		End Use: Consumers
		Exposure routes: Ingestion
		Potential health effects: Long-term systemic effects
		Value: 0,74 mg/kg
		End Use: Consumers
		Exposure routes: Inhalation
		Potential health effects: Long-term systemic effects
sodium carbonate	:	End Use: Consumers
		Exposure routes: Inhalation
		Potential health effects: Long-term systemic effects
		Value: 1,55 mg/m ³
		End Use: Consumers
		Exposure routes: Skin contact
		Potential health effects: Long-term systemic effects
		Value: 0,74 mg/kg
	:	End Use: Industrial use
		Exposure routes: Inhalation
		Potential health effects: Acute local effects
		Value: 10 mg/m ³
		End Use: Industrial use
		Exposure routes: Inhalation
		Potential health effects: Long-term local effects
		Value: 10 mg/m ³

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Silicic acid, disodium salt, pentahydrate	:	Fresh water
		Value: 7,5 mg/l
		Marine water
		Value: 1 mg/l
		Water - intermittent release
		Value: 7,5 mg/l
		Sewage treatment plant
		Value: 1000 mg/l

8.2 Exposure controls

Engineering measures

Provide sufficient air exchange and/or exhaust in work rooms.

Personal protective equipment



DENIMCOL NCD

Version 2.0

Revision Date 15.11.2016

Print Date 16.11.2016

Eye protection	: Wear eye/face protection.
Hand protection	
Material	: Nitrile rubber
Break through time	: > 480 min
Glove thickness	: >= 0,35 mm
Protective index	: Class 6
	Neoprene
	> 480 min
	>= 0,5 mm
	Class 6
Remarks	: The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. The obtained break through times according to EN 374 Part III are not measured under normal operating conditions. Therefore a maximum usage time of 50% of the break through time is recommended.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: In case of inadequate ventilation wear respiratory protection. In case of suspended matter/dust formation: Recommended Filter type: filter P

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: powder, granular
Colour	: white
Odour	: odourless
pH	: ca. 12, Concentration: 10 g/l (20 °C)
Melting point/range	: No data available
Boiling point/boiling range	: Not applicable
Flash point	: Not applicable
Evaporation rate	: Not applicable
Upper explosion limit	: Not applicable
Lower explosion limit	: Not applicable
Vapour pressure	: Not applicable
Vapour density	: Not applicable
Density	: Not applicable



DENIMCOL NCD

Version 2.0

Revision Date 15.11.2016

Print Date 16.11.2016

Bulk density	: 880 - 980 kg/m ³ (20 °C)
Water solubility	: ca. 100 g/l (20 °C)
Partition coefficient: n-octanol/water	: Not applicable
Auto-ignition temperature	: not auto-flammable
Viscosity, dynamic	: No data available
Oxidizing properties	: Not applicable

9.2 Other information

Conductivity	: Not determined
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SECTION 10: Stability and reactivity

10.1 Reactivity

No hazards to be specially mentioned.

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid : Not applicable

10.5 Incompatible materials

Materials to avoid : Fluorine

10.6 Hazardous decomposition products

Hazardous decomposition products : No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:



DENIMCOL NCD

Version 2.0

Revision Date 15.11.2016

Print Date 16.11.2016

- Acute oral toxicity : Based on available data, the classification criteria are not met.
- Acute inhalation toxicity : No data is available on the product itself.
- Acute dermal toxicity : Based on available data, the classification criteria are not met.

Components:

Silicic acid, disodium salt, pentahydrate:

Acute inhalation toxicity : LC50 Rat: > 2,06 mg/l
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 Rat: > 5.000 mg/kg

sodium carbonate:

Acute oral toxicity : LD50 Rat: 2.800 mg/kg

Acute dermal toxicity : LD50 Rabbit: > 2.000 mg/kg

Skin corrosion/irritation

Product:

Causes severe burns.

Components:

Silicic acid, disodium salt, pentahydrate:

Species: Rabbit

Result: Causes burns.

Method: OECD Test Guideline 404

sodium carbonate:

Species: Rabbit

Result: No skin irritation

Method: OECD Test Guideline 404

Serious eye damage/eye irritation

Product:

Causes serious eye damage.

Components:

Silicic acid, disodium salt, pentahydrate:

Species: Rabbit

Causes burns.



DENIMCOL NCD

Version 2.0

Revision Date 15.11.2016

Print Date 16.11.2016

sodium carbonate:

Species: Rabbit

Classification: Irritating to eyes.

Respiratory or skin sensitisation

Product:

No known sensitising effect.

Germ cell mutagenicity

Product:

Germ cell mutagenicity- Assessment : Based on available data, the classification criteria are not met.

Components:

Silicic acid, disodium salt, pentahydrate:

Germ cell mutagenicity- Assessment : No indication for a mutagenic effect; in vitro and in vivo examinations.

Carcinogenicity

Product:

Carcinogenicity - Assessment : Based on available data, the classification criteria are not met.

Components:

Silicic acid, disodium salt, pentahydrate:

Carcinogenicity - Assessment : No indication of a carcinogenic effect.

Reproductive toxicity

Product:

Reproductive toxicity - Assessment : Based on available data, the classification criteria are not met.

Components:

Silicic acid, disodium salt, pentahydrate:

Reproductive toxicity - Assessment : No toxicity to reproduction

STOT - single exposure

Product:

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



DENIMCOL NCD

Version 2.0

Revision Date 15.11.2016

Print Date 16.11.2016

Components:

Silicic acid, disodium salt, pentahydrate:

Assessment: May cause respiratory irritation.

STOT - repeated exposure

Product:

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

Aspiration toxicity

Product:

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

Further information

Product:

The damage is mostly due to the corrosive effect.

If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach.

Inhalation of aerosol may cause irritation to the upper respiratory tract.

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : No data is available on the product itself.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 10 - 100 mg/l
Exposure time: 48 h
Method: Acute toxicity for Daphnia
Argument by analogy

Toxicity to algae : No data is available on the product itself.

Toxicity to bacteria : EC50 (Bacteria): > 1.000 mg/l
Argument by analogy

Components:

Silicic acid, disodium salt, pentahydrate:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 210 mg/l
Exposure time: 96 h



DENIMCOL NCD

Version 2.0

Revision Date 15.11.2016

Print Date 16.11.2016

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.700 mg/l
Exposure time: 48 h
Argument by analogy

sodium carbonate:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 300 mg/l
Exposure time: 96 h
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): > 200 mg/l
Exposure time: 48 h
Test Type: semi-static test

12.2 Persistence and degradability

Product:

Biodegradability : The surfactant(s) contained in this mixture complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer. The product is "readily biodegradable" according to the criteria of the OECD.

Biochemical Oxygen Demand (BOD) : ca. 20 mg O₂/g
Incubation time: 5 d
Argument by analogy

Chemical Oxygen Demand (COD) : ca. 100 mg O₂/g
Argument by analogy

12.3 Bioaccumulative potential

Product:

Bioaccumulation : No data is available on the product itself.

Partition coefficient: n-octanol/water : Not applicable

12.4 Mobility in soil

Product:

Mobility : No data available

12.5 Results of PBT and vPvB assessment

Product:



DENIMCOL NCD

Version 2.0

Revision Date 15.11.2016

Print Date 16.11.2016

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Product:

Adsorbed organic bound halogens (AOX) : Because of the components, which do not contain any organic halogens, this product does not increase the AOX-values in the waste water.

Additional ecological information : According to our knowledge, the product does not contain heavy metals and other compounds of EC directive 2000/60 EC.
Damaging effect on aquatic ecosystems possible due to change in the pH value.
Neutralization is normally necessary before waste water is discharged into water treatment plants.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Pay attention to local or official regulations.

Contaminated packaging : Pay attention to local or official regulations.

SECTION 14: Transport information

14.1 UN number

IMDG : UN 3253
IATA : UN 3253

14.2 Proper shipping name

IMDG : Mixture
DISODIUM TRIOXOSILICATE
IATA : Mixture
DISODIUM TRIOXOSILICATE
Mixture

14.3 Transport hazard class

IMDG : 8
IATA : 8

14.4 Packing group



DENIMCOL NCD

Version 2.0

Revision Date 15.11.2016

Print Date 16.11.2016

IMDG

Packaging group : III
Labels : 8
EmS Number : F-A, S-B
Segregation group : -

IATA

Packaging group : III
Labels : 8
Packing instruction (cargo aircraft) : 864
Packing instruction (passenger aircraft) : 860
Packing instruction (passenger aircraft) : Y845

14.5 Environmental hazards

IMDG

Marine pollutant : no

IATA

Environmentally hazardous : no

14.6 Special precautions for user

Remarks : see chapter 6 - 8

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Remarks : Not applicable

SECTION 15: Regulatory information

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

Components according to Detergents Regulation EC 648/2004 : This product is not subject to the Regulation on Detergents.

15.2 Chemical safety assessment

not required

SECTION 16: Other information

Full text of H-Statements

H314 : Causes severe skin burns and eye damage.



DENIMCOL NCD

Version 2.0

Revision Date 15.11.2016

Print Date 16.11.2016

H319 : Causes serious eye irritation.
H335 : May cause respiratory irritation.

Full text of other abbreviations

Eye Irrit. : Eye irritation
Skin Corr. : Skin corrosion
STOT SE : Specific target organ toxicity - single exposure

Further information

Other information : This data sheet contains changes from the previous version in section(s):
2
3
8
11
12
16

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.

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