

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 05.04.2011

Version number 1

Revision: 05.04.2011

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

- **Date of issue:** 31.05.2005
- **Product identifier**
- **Trade name:** KÖSTROSOL
- **Registration number:** CAS: 7631-86-9 REACH: 01-2119379499-16
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the preparation:** Polishing agent / Burnishing compound
- **Details of the supplier of the safety data sheet**
- **Manufacturer / Supplier:**
N. Bucher AG Tel.: ++41-56 418 19 90
Pfadackerstraße 9 Fax: ++41-56 418 19 99
CH-8957 Spreitenbach
Switzerland
- **E-mail address of the competent person responsible for the Safety Data Sheet:** info@nbucherag.com
- **Informing department:** Sales
- **Emergency telephone number:** As above or next toxicological information centre

2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
The product is not classified according to the CLP regulation.
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC Void**
- **Classification system:**
The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- **Label elements**
- **Labelling according to EU guidelines:**
The product is not subject to classification according to the calculation methods of the "General Classification Guideline for Preparations of the EC" as issued in the last version.
Although this product is not subject to identification regulations, we recommend that the safety suggestions are observed.
- **Safety phrases:**
23 Do not breathe aerosol.
24/25 Avoid contact with skin and eyes.
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterization:** Mixtures
- **Description:** Colloidal solution

· **Dangerous components:**

CAS: 7631-86-9	Silicon dioxide	25-50%
EINECS: 231-545-4		

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4 First aid measures

- **Description of first aid measures**
- **General information:** Remove contaminated clothing.
- **After inhalation:** Supply fresh air; consult doctor in case of symptoms.
- **After skin contact:**
Instantly rinse with water.
If skin irritation continues, consult a doctor.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.
Remove contact lenses, if present and easy to do. Continue rinsing.
- **After swallowing:**
Rinse out mouth and then drink plenty of water.
Do not induce vomiting!
In case of persistent symptoms consult doctor.

5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents** Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **Special hazards arising from the substance or mixture** Silica fumes
- **Advice for firefighters**
- **Protective equipment:** Wear self-contained breathing apparatus.
- **Additional information**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation.
Use breathing protection against the effects of fumes/dust/aerosol.
Avoid contact with skin and eyes.
- **Environmental precautions:** Do not allow to enter drainage system, surface or ground water.
- **Methods and material for containment and cleaning up:**
Ensure adequate ventilation.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of the material collected according to regulations.
- **Reference to other sections**
See Section 8 for information on personal protection equipment.

7 Handling and storage

- **Handling**
- **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
Do not inhale aerosols.
Avoid prolonged or repeated skin contact.
Avoid contact with eyes.
Make sure that all applicable workplace limits are observed.
- **Information about protection against explosions and fires:** No special measures required.

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- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:**
Observe all local and national regulations for storage of water polluting products.
- **Information about storage in one common storage facility:** *Not required.*
- **Further information about storage conditions:**
Keep container tightly sealed.
Recommended storage temperature: 20 - 30°C
Protect from frost.
Protect from overexposure to light.
Prevent from drying out.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** *No further data; see item 7.*
- **Control parameters**
- **Components with critical values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** *The lists that were valid during the compilation were used as basis.*
- **Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**
Keep away from foodstuffs, beverages and food.
Do not inhale gases / fumes / aerosols.
Avoid close or long term contact with the skin.
Avoid contact with the eyes.
Wash hands during breaks and at the end of the work.
- **Breathing equipment:**
Use breathing protection when aerosol or mist is formed.
Dust mask
If all workplace limits are observed and good ventilation is ensured, no special precautions necessary.
- **Protection of hands:**
Protective gloves
To avoid skin problems reduce the wearing of gloves to the required minimum.
Check the permeability prior to each renewed use of the glove.
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
Preventive skin protection by use of skin-protecting agents is recommended.
- **Material of gloves**
Nitrile rubber - NBR
Recommended thickness of the material: ≥ 0.4 mm
Butyl rubber - BR
Recommended thickness of the material: ≥ 0.7 mm
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**
Value for the permeation: Level ≥ 1
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** *Safety glasses*

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- **Body protection:**
Protective work clothing
Protective clothing should be selected specifically for the working place.

9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form: liquid
Colour: milky
opalescent

- **Smell:** odourless
- **Odour threshold:** no data available

· **pH-value at 20°C:** 8 - 10.5

- **Change in condition**

Melting point/Melting range: 0°C
Boiling point/Boiling range: 100°C

· **Flash point:** not applicable

· **Inflammability (solid, gaseous)** not applicable

· **Self-inflammability:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive.

- **Critical values for explosion:**

Oxidizing properties not classified as oxidising

· **Vapor pressure at 20°C:** ~ 20 hPa

· **Density at 20°C:** 1.05 - 1.45 g/cm³

- **Solubility in / Miscibility with**

Water: fully miscible

- **Viscosity:**

dynamic at 20°C: 2 - 50 mPas
kinematic: not determined

10 Stability and reactivity

- **Reactivity**

- **Chemical stability**

- **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

Temperatures below 5 °C

- **Possibility of hazardous reactions** No dangerous reactions known.

- **Incompatible materials:**

Substances reactive to water

Cationic agents

Electrolytes

- **Hazardous decomposition products:** Silica fumes

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11 Toxicological information

- **Information on toxicological effects**

- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

7631-86-9 Silicon dioxide

Oral	LD50	> 10000 mg/kg (rat)
Dermal	LD50	> 2000 mg/kg (rabbit)
Inhalative	LC50/4 h	> 2 mg/l (rat)

- **Primary irritant effect:**

- **on the skin:** Longer lasting and/or repeated skin contact may cause irritation.

- **on the eye:** Short time, reversible irritating effect.

- **Sensitization:** No sensitizing effect known.

- **Additional toxicological information:**

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

12 Ecological information

- **Toxicity**

- **Aquatic toxicity:**

7631-86-9 Silicon dioxide

EC50/24 h	> 10000 mg/l (water flea (daphnia magna))
EC50/72 h	> 10000 mg/l (algae (Scenedesmus subspicatus))
LC50/96 h	> 10000 mg/l (danio rerio)

- **Persistence and degradability** not applicable

- **Behaviour in environmental systems:**

- **Bioaccumulative potential** not applicable

- **Mobility in soil** not applicable

- **Additional ecological information:**

- **General notes:** Generally not hazardous for water.

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

13 Disposal considerations

- **Waste treatment methods**

- **Recommendation**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Disposal must be made according to official regulations.

- **Waste disposal key number:** According to local/national regulations.

- **European waste catalogue:**

Waste disposal key numbers from EWC have to be assigned depending on origin and processing.

- **Uncleaned packagings:**

- **Recommendation:** Disposal must be made according to official regulations.

- **Recommended cleaning agent:** Water, if necessary with cleaning agent.

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14 Transport information

- **Land transport ADR/RID (cross-border):**

- **ADR/RID Class:** -

- **Maritime transport IMDG-Code:**

- **IMDG Class:** -

- **Air transport ICAO-TI and IATA-DGR:**

- **ICAO/IATA Class:** -

- **UN "Model Regulation":** -

- **Special precautions for user** Not applicable.

- **Transport/Additional information:** Not dangerous according to the above specifications.

15 Regulatory information

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

- **Designation according to EC guidelines:**

The product is not subject to classification according to the calculation methods of the "General Classification Guideline for Preparations of the EC" as issued in the last version.

Although this product is not subject to identification regulations, we recommend that the safety suggestions are observed.

- **Safety phrases:**

23 Do not breathe aerosol.

24/25 Avoid contact with skin and eyes.

- **National regulations**

- **Decree to be applied in case of technical fault:** -

- **Water hazard class:** Generally not hazardous for water.

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Reasons for changes:**

The Material Safety Data Sheet has been revised. Changes in the respective chapters are characterized in the left side edge by *.

- **Department issuing MSDS:**

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Parkstraße 29 Fax: +49 - 2151 - 652086-9

D-47829 Krefeld

Germany

- **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

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

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

- *** Data compared to the previous version altered.**