1. Product and company identification

Product identifier

Trade name: Bevi Draft conc.

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

General use: Cleaning agent

Details of the supplier of the safety data sheet

Company name: BeviClean GmbH
Street/POB-No.: Carl-Benz-Straße 5
Postal Code, city: 56218 Mülheim-Kärlich
Germany
E-mail: info@beviclean.com
Telephone: +49 (0) 2630 / 966 30-0
Telefax: +49 (0) 2630 / 966 30-20

Department responsible for information:
Dirk Bersch, Telephone: +49 (0) 2630 / 966 30-0, info@beviclean.com

Emergency phone number

Dirk Bersch, Telephone: +49 (0) 2630 / 966 30-0

2. Hazards identification

Emergency overview

Appearance: Form: liquid
Color: yellow
Odor: characteristic

Classification: Corrosive to Metals - Category 1. Skin Irritation - Category 2. Eye Irritation - Category 2A.

Hazard symbols:

Signal word: **Warning**

Hazard statements:
May be corrosive to metals.
Causes skin irritation.
Causes serious eye irritation.

Precautionary statements:
Keep out of reach of children.
Keep only in original container.
Do not breathe vapors.
IF ON SKIN: Wash with plenty of water/soap.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

Regulatory status

This material is considered hazardous by the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200).

Hazards not otherwise classified

Special danger of slipping by leaking/spilling product.
see section 11: Toxicological information

3. Composition / Information on ingredients

Chemical characterization: Aqueous solution

Relevant ingredients:

CAS No.	Designation	Concentration	Classification
CAS 164462-16-2	N,N-Bis (carboxymethyl)-DL-alanine trisodium salt	< 5 %	Skin Irritation - Category 2. Eye Irritation - Category 2A.
CAS 1310-73-2	Sodium hydroxide	< 2 %	Corrosive to Metals - Category 1. Skin Corrosion - Category 1A.
CAS 132-27-4	Sodium 2-biphenylate	< 2 %	Acute Toxicity - oral - Category 4. Skin Irritation - Category 2. Eye Damage - Category 1. Specific Target Organ Toxicity (Single Exposure) - Category 3. Aquatic toxicity - acute - Category 1.

4. First aid measures

In case of inhalation: Move victim to fresh air.
Seek medical attention if irritation persists.

Following skin contact: Take off immediately all contaminated clothing.
After contact with skin, wash immediately with plenty of water.
Seek medical attention.

After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart.
Subsequently seek the immediate attention of an ophthalmologist.

After swallowing: Rinse mouth immediately and drink plenty of water.
Do not induce vomiting. Seek medical attention.

Most important symptoms/effects, acute and delayed

In case of inhalation: Mucous membrane irritation, cough, shortage of breath.
In case of ingestion: Burns in the mouth, pharynx, oesophagus, and gastrointestinal tract.

Information to physician

Treat symptomatically.

5. Fire fighting measures

Flash point/flash point range: not combustible

Auto-ignition temperature: No data available

Suitable extinguishing media: Product is non-combustible. Extinguishing materials should therefore be selected according to surroundings.

Specific hazards arising from the chemical

Product is non-combustible.
Fires in the immediate vicinity may cause the development of dangerous vapors.
In case of fire may be liberated: Sodium compounds, nitrogen oxides (NOx), carbon monoxide and carbon dioxide.

Protective equipment and precautions for firefighters:
Wear self-contained breathing apparatus. Wear appropriate protective equipment.

Additional information: Cool endangered containers with water spray and, if possible, remove from danger zone.
Use a water fog to control vapors. Do not breathe fumes.
Product reacts alkaline. Do not allow fire water to penetrate into surface or ground water.

6. Accidental release measures

Personal precautions: Avoid contact with the substance.
Do not breathe vapor or spray. Wear suitable protective clothing.
Ensure adequate ventilation, especially in confined areas.

Environmental precautions: Do not allow to enter into ground-water, surface water or drains.

Methods for clean-up: Soak up with absorbent materials such as sand, siliceus earth, acid- or universal binder. Store in special closed containers and dispose of according to ordinance. Final cleaning.
To clean the floor and all object contaminated by this material, use water.

Additional information: Special danger of slipping by leaking/spilling product.

7. Handling and storage

Handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed.
Avoid contact with skin, eyes, and clothing.
Do not breathe vapor or spray. Wear suitable protective clothing.
When using do not eat, drink or smoke.

Storage

Requirements for storerooms and containers:
Keep container tightly closed in a cool, well-ventilated place.
Unsuitable materials: Aluminium, zinc, tin.

Hints on joint storage: Not let come into contact with light metals. Avoid contact with acids.
Keep away from food, drink and animal feedingstuffs.

8. Exposure controls / personal protection

Exposure guidelines

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
1310-73-2	Sodium hydroxide	USA: ACGIH: Ceiling	2 mg/m³
		USA: IDLH: TWA	10 mg/m³
		USA: NIOSH: Ceiling	2 mg/m³
		USA: OSHA: TWA	2 mg/m³

Engineering controls

Provide good ventilation.
See also information in chapter 7, section storage.

Personal protection equipment (PPE)

Eye/face protection: Tightly sealed goggles according to OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2010.

Skin protection: Wear suitable protective clothing.

Protective gloves according to OSHA Standard - 29 CFR: 1910.138.
Glove material: Nitrile rubber
Layer thickness: 0.11 mm.
Breakthrough time: >480 min.
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Respiratory protection: Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded.
Half mask with particle filter P2/P3 according to OSHA Standard - 29 CFR: 1910.134 or ANSI Z88.2.

General hygiene considerations: Avoid contact with skin, eyes, and clothing. Take off immediately all contaminated clothing. Do not breathe vapor or spray. Wear appropriate protective equipment. Work place should be equipped with a shower and an eye rinsing apparatus. After work, wash hands and face.

Environmental exposure controls

Refer to 6.: Section "Environmental precautions".

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance:	Form: liquid Color: yellow
Odor:	characteristic
Odor threshold:	No data available
pH:	approx. >= 11.5
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flash point/flash point range:	not combustible
Evaporation rate:	No data available
Flammability:	No data available
Explosion limits:	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Density:	at 68 °F: 1.01 - 1.05 g/mL
Water solubility:	at 68 °F: soluble
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Thermal decomposition:	No data available
Additional information:	No data available

10. Stability and reactivity

Reactivity: May be corrosive to metals.

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: Exothermic reactions with acids ammonium compounds. Reactions with base metals under hydrogen development

Conditions to avoid: Heating

Incompatible materials: Light metals, acids

Hazardous decomposition products: In case of fire may be liberated: Sodium compounds, nitrogen oxides (NOx), carbon monoxide and carbon dioxide.

Thermal decomposition: No data available

11. Toxicological information

Toxicological tests

Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such.

Acute toxicity (oral): Lack of data.

Acute toxicity (dermal): Lack of data.

Acute toxicity (inhalative): Lack of data.

Skin corrosion/irritation: Skin Irritation - Category 2 = Causes skin irritation.

Serious eye damage/irritation: Eye Irritation - Category 2A = Causes serious eye irritation.

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Lack of data.

Germ cell mutagenicity/Genotoxicity: Lack of data.

Carcinogenicity: Lack of data.

Reproductive toxicity: Lack of data.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Lack of data.

Specific target organ toxicity (repeated exposure): Lack of data.

Aspiration hazard: Lack of data.

Other information: A corrosive effect cannot be ruled out because of the pH value.

Symptoms

In case of inhalation: Mucous membrane irritation, cough, shortage of breath.
In case of ingestion: Burns in the mouth, pharynx, oesophagus, and gastrointestinal tract.

12. Ecological information

Ecotoxicity

Aquatic toxicity: Harmful effects on water organisms by modification of pH-value.

Mobility in soil

No data available

Persistence and degradability

Further details: No data available

Additional ecological information

General information: Do not allow to enter into ground-water, surface water or drains.

13. Disposal considerations

Product

Recommendation: Dispose of waste according to applicable legislation.
Do not dispose of with household waste.

Package

Recommendation: Dispose of waste according to applicable legislation.
Handle contaminated packages in the same way as the substance itself.
Non-contaminated packages may be recycled.

Additional information

Discharge into the environment must be avoided.

14. Transport information

UN number

ADR/RID, IMDG, IATA-DGR: UN 1719

UN proper shipping name

ADR/RID, IMDG, IATA-DGR: UN 1719, CAUSTIC ALKALI LIQUID, N.O.S. (Sodium hydroxide)

Transport hazard class(es)

ADR/RID: Class 8, Code: C5
IMDG: Class 8, Subrisk -
IATA-DGR: Class 8

Packing group

ADR/RID: III

Environmental hazards

Marine pollutant: no

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

No data available

USA: Department of Transportation (DOT)

Identification number:	UN1719
Proper shipping name:	UN 1719, CAUSTIC ALKALI LIQUIDS, N.O.S. (Sodium hydroxide)
Hazard class or Division:	8
Labels:	8
Symbols:	G
Special Provisions:	IB3, T7, TP1, TP28
Packaging – Exceptions:	154
Packaging – Non-bulk:	203
Packaging – Bulk:	241
Quantity limitations – Passenger aircraft / rail:	5 L
Quantity limitations – Cargo only:	60 L
Vessel stowage – Location:	A
Vessel stowage – Other:	29, 52

Sea transport (IMDG)

UN number:	UN 1719
Proper shipping name:	UN 1719, CAUSTIC ALKALI LIQUID, N.O.S. (Sodium hydroxide)
Class or division, Subsidary risk:	Class 8, Subrisk -
EmS:	F-A, S-B
Special Provisions:	223 274
Limited quantities:	5 L
Excepted quantities:	E1
Package - Instructions:	P001
Package - Provisions:	-
IBC - Instructions:	IBC03
IBC - Provisions:	-
Tank instructions - IMO:	-
Tank instructions - UN:	T7
Tank instructions - Provisions:	TP1, TP28
Stowage and handling:	Category A.
Segregation:	SG22 SG35
Properties and observations:	Corrosive to aluminium, zinc and tin. Reacts violently with acids.Reacts with ammonium sals, evolving ammonia gas. Causes burns to skin, eyes and mucous membranes.
Marine pollutant:	no
Segregation group:	18

Air transport (IATA)

UN/ID number:	UN 1719
Proper shipping name:	UN 1719, CAUSTIC ALKALI LIQUID, N.O.S. (Sodium hydroxide)
Class or division, Subsidary risk:	Class 8
Hazard label:	Corrosive
Excepted Quantity Code:	E1
Passenger and Cargo Aircraft: Ltd.Qty.:	Pack.Instr. Y841 - Max. Net Qty/Pkg. 1 L
Passenger and Cargo Aircraft:	Pack.Instr. 852 - Max. Net Qty/Pkg. 5 L
Cargo Aircraft only:	Pack.Instr. 856 - Max. Net Qty/Pkg. 60 L
Special Provisions:	A3 A803
Emergency Response Guide-Code (ERG):	8L

15. Regulatory information

National regulations - U.S. Federal Regulations

N,N-Bis(carboxymethyl)-DL-alanine trisodium salt:
TSCA Inventory: listed; EPA flags PMN
TSCA HPVC: not listed

Sodium hydroxide:
TSCA Inventory: listed
TSCA HPVC: not listed
Clean Water Act:
Hazardous Substances: RQ 1000 lbs.
Other Environmental Laws:
CERCLA: RQ 1000 lbs.
NIOSH Recommendations:
Occupational Health Guideline: 0565

Sodium 2-biphenylate:
TSCA Inventory: listed
TSCA HPVC: not listed
Carcinogen Status:
IARC Rating: Group 2B
OSHA Carcinogen: not listed
NTP Rating: not listed
Other Environmental Laws:
SARA Title III Section 313, Toxic Release: Conc. 0.1% / Threshold Standard

National regulations - Great Britain

Hazchem-Code: 2R

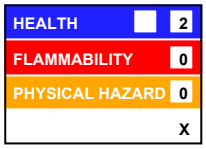
16. Other information

Text for labeling:
Contains < 5 % N,N-Bis(carboxymethyl)-DL-alanine trisodium salt, < 2 % Sodium hydroxide, < 2 % Sodium 2-biphenylate. Safety data sheet available on request.

Hazard rating systems:

NFPA Hazard Rating:
Health: 2 (Moderate)
Fire: 0 (Minimal)
Reactivity: 0 (Minimal)

HMIS Version III Rating:
Health: 2 (Moderate)
Flammability: 0 (Minimal)
Physical Hazard: 0 (Minimal)
Personal Protection: X = Consult your supervisor



JT Baker Storage Color Code: White (Contact Hazard)

Abbreviations and acronyms:
Acute Toxicity: Acute toxicity
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
Aquatic toxicity - acute: Hazardous to the aquatic environment - acute
AS/NZS: Australian Standards/New Zealand Standards
CAS: Chemical Abstracts Service
CFR: Code of Federal Regulations
CLP: Classification, Labelling and Packaging
Corrosive to Metals: Corrosive to metals
DMEL: Derived minimal effect level
DNEL: Derived no-effect level
EC: European Community
EN: European Standard
EQ: Excepted quantities
Eye Damage: Eye damage
Eye Irritation: Eye irritation
IATA: International Air Transport Association
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations
IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IMDG Code: International Maritime Dangerous Goods Code
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OEL: Occupational Exposure Limit Value
OSHA: Occupational Safety and Health Administration
PBT: Persistent, bioaccumulative and toxic
PNEC: Predicted no-effect concentration
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail
Skin Corrosion: Skin corrosion
Skin Irritation: Skin irritation
STOT SE: Specific target organ toxicity - single exposure
TLV: Threshold Limit Value
TRGS: Technical Rules for Hazardous Substances
UN: United Nations
vPvB: Very persistent and very bioaccumulative
WEL: Workplace Exposure Limit

Reason of change: Changes in section 1: UFI

Date of first version: 4/2/2007

Department issuing data sheet

Contact person: see section 1: Department responsible for information

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.

Most recent product information is available at
http://sumdat.net/k1rxerb