

Printing date: 95/03/24

Revised on 95/01/11

Jumbo-Cleaner**1 Identification of substance****- Trade name: Jumbo-Cleaner****- Manufacturer/Supplier:**TEGEE-CHEMIE BREMEN GmbH
Bergedorfer Str. 6-8
D-28219 Bremen

Tel.: +49 421 389970

- Informing department: R+D**- Emergency information:**During normal opening times: +49 421 3899760-62
At other times: +49 4242 8186**2 Composition / Data on components****- Chemical characterization:****- Description (acc. to EEC recommendation):**< 5% phosphates / < 5% nonionic tensides /6-15% cationic tensides
Further ingredients: silicates, water-miscible special solvents, fragrance.**Hazardous substances:**

CAS-#	Description	%	Symb.	R-phrase
1310-58-3	Potassium hydroxide	1-5	C	35
1312-76-1	Potassium silicate	1-5	Xi	38-41
111-76-2	Ethylene glycol n-butyl ether	1-5	Xi	20/21/22-37
141-43-5	2-aminoethanol	1-5	Xi	20-36/37/38

3 Hazards identification**- Hazard designation: C - Caustic****- Information pertaining to particular dangers for man and environment:**

R 34: Causes burns

Water hazard class: WGK 1 (minor hazard to water)

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4 First aid measures

- **General information:** Diluting the concentrate with water always decreases its harmful effects!
- After inhalation:** (Do not inhale spraying mist!)
- **After contact with the skin:** Rinse thoroughly with water.
- **After contact with the eyes:** Flush open eyes thoroughly with flowing water. See an oculist for post-examination.
- **After swallowing:** Wash out your mouth immediately and drink plenty of water. Consult a physician.

5 Fire and explosion hazard

- **Extinguishing media:** Not applicable
- **Extinguishing media not suited for safety reasons:**
- **Special protection equipment:**

6 Measures in case of unintentional release

- **Protective measures regarding persons:** Wear safety glasses and rubber gloves.
- **Environmental protection measures:** Do not allow the concentrate to enter into drains, as this will result in harmful effects on water organisms due to increase in pH.
- **Destruction and cleanup procedures:** Dilute minor quantities of concentrate with large amounts of water (min. 1:1000) and rinse off. Neutralize major quantities of concentrate with acids and dispose of as special waste.

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Jumbo-Cleaner**7 Handling and storage****- Handling****Notes on safe handling:**

In concentrated form, the product causes burns of the skin. We, therefore, recommend to wear protective gloves (rubber gloves) and safety glasses when handling the product.

Notes on fire and explosion hazards:

The product is nonflammable.

- Storage**Requirements on storage locations and containers:**

Store containers in a dry location. Keep containers tightly sealed and protect from damage.

Notes on the storage with other materials: Not applicable.

Additional notes on storage conditions: Store at a cool location and in sealed containers.

- VbF class:

Not applicable.

8 Exposition limitation and personal protection equipment**- Ingredients with limiting values to be monitored at the workplace**

<u>CAS-no.</u>	<u>Designation</u>	<u>%</u>	<u>Index</u>	<u>Value</u>	<u>Unit</u>
141-43-5	2-aminoethanol	1-5	MAC	8	mg/m ³
111-76-2	Ethylene glycol n-butylether	1-5	MAC	100	mg/m ³

- General protective and hygienic measures: Should contact with product occur, wash with water.

- Breathing equipment:

Not required. However, the inhalation of concentrate vapors should be avoided.

- Hand protection:

Protective gloves.

- Eye protection:

Safety glasses.

- Body protection:

When handled properly, no special clothing required.

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9 Physical and chemical data

- **Physical state:** liquid
- **Color:** yellowish
- **Odor:** of citrus

	<u>Value/Range</u>	<u>Unit</u>	<u>Method</u>
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- | | | | |
|--|-------------------|------|--|
| - Clarification temperature: | -7 | °C | |
| - Boiling point/range: | approx. 100 | °C | |
| - Flash point: | n.a. | | |
| - Ignition temperature: | n.a. | | |
| - Inflammability limits in air: | n.a. | | |
| - Vapor pressure: | n.d.a. | | |
| - Density: | 1.07 | kg/l | |
| - Solubility in / miscibility with water: | at any proportion | | |
| - pH: (of the concentrate) | approx. 13.5-14 | | |
| - Viscosity: | n.d. | | |

10 Stability and reactivity

- **Conditions to be avoided:** Do not mix with acids or any other acid products (as those have a neutralizing effect).
- **Hazardous decomposition products:** When burnt, nitrogen oxides may develop.

11 Toxicological data

- **Acute toxicity:**
 - Swallowing, LD50, rat, oral (mg/kg): n.d.
 - Inhalation, LC50, rat, inhalational (mg/l/4h): n.d.
 - Skin contact, DL50, rat, dermal (mg/kg): (causes burns)
 - Eye contact: (causes burns)

- **Additional toxicological information:**

The increased alkalinity makes the product harmful to the eyes and the mucous membranes. However, when used to specifications, no negative effects have become known so far.

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Jumbo-Cleaner**12 Ecological information****- General Information:**

Major quantities rinsed into waters or the sewage system may cause an increase in pH. An increased pH is harmful to water organisms. After diluting the product for use, the pH is decreased considerably so that the sewage waters entering the sewage system after use do not have a harmful effect.

The product's washing-active ingredients are in accordance with the German Law on the environmental compatibility of washing and cleaning products and are biodegradable.

The product does not contain organically bound halogens.

Water hazard class: WGK 1 (minor hazard to water)

13 Disposal information

- Product: Dispose of as special waste according to local regulations (concentrate only!). Minor quantities may be diluted with plenty of water (min. 1:1000) and rinsed off.

- Waste code: 52402 (concentrate)

- Uncleaned packages: Possible re-use after cleaning with water.

14 Transport classification**- Street and rail transport**

GGVS/ADR: Class 8, item 42 b

GGVE/RID: Class 8, item 42 b

Kemler no.: 80

UN no.: 1814

- Transport by sea vessels

IMDG code: Class 8

UN no.: 1814

Packaging group: II

EMS no. 8 / 06

MFAG: 705

- Transport by airplanes

ICAO/IATA-DGR: Class 8

UN/ID no.: 1814

Packaging group: II

- Additional information:

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15 Regulations

- **Labeling according to EC directive:** 38/379/EEC

- **Dangerous ingredient(s):** Potassium hydroxide < 5%

- **R-phrases:** R 34: Causes burns.

- **S-phrases:** S2: Keep out of reach of children.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28: After contact with skin, wash immediately with plenty of water.

S37/39: Wear suitable gloves and eye/face protection.

S 45: In case of accident or if you feel unwell, seek medical advice immediately (show product label where possible).

Additional information: When handling the concentrate we recommend to wear safety glasses and protective gloves.

- **Classification acc. to VbF:** Not applicable

16 Miscellaneous: n.a. = not applicable
n.d. = not defined
n.d.a. = no data available