

Material Safety Data Sheet
According to 91/155/EC

Printing date: 18/6/2004

Revised on 13.10.95

Multi 2000**1. Identification of substance**- Trade name: **Multi 2000****2. Composition /Data on Components****- Chemical characterization:**

Description (acc. to EC recommendation):

< 5% cationic tensides / 5-15% nonionic tensides / < 5% NTA

Hazardous substances:

CAS-no.	Description	%	Symb.	R-phrase
10213-79-3	Sodiummetasilicate	1-5	C	34-36
5064-31-3	Trisodium-nitriлотriacetate	1-5	Xn	22-36
112-34-5	Diethyleneglycol-n-butylether	1-5	Xi	36

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

R 34: Causes burns

Water hazard class: WGK 1 - Minor hazard to water

4. First aid measures

- General information: Diluting the concentrate with water always decreases its harmful effects!

- After inhalation: Not applicable.

- After contact with the skin: Rinse thoroughly with water.

- After contact with the eyes: Flush open eyes thoroughly with flowing water for 15 minutes. See an oculist for post-examination.

- After swallowing: Wash out your mouth immediately and drink plenty of water. Consult a doctor.

5. Fire and explosion hazard

not applicable

- Extinguishing media:

- Extinguishing media not suited for safety reasons:

- Special protecting equipment:

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Multi 2000**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.*

7. Handling and storage

- **Handling:**
Notes on safe handling: *In concentrated form, the product causes burns on 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 ist 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:** *Store away from foodstuff.*
- Additional notes on storage conditions:** *Store in a cool location and in sealed containers.*
- **VbF-Class:** *Not applicable.*

8. Exposition limitation and personal protection equipment

- **Additional information as to the layout of technical facilities:**
Light alloy parts (aluminum, zinc, brass) may be attacked by the product.
- **Ingredients with limiting values to be monitored at the workplace:**
The product does not contain any such ingredients.
- **General protective and hygienic measures:** *After contact with product, wash with water immediately.*
- **Breathing equipment:** *Do not breath mist.*
- **Hand protection:** *Protective gloves (rubber gloves).*
- **Eye protection:** *Safety goggles.*
- **Body protection:** *When handled properly, no special clothing required.*

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Multi 2000**9. Physical and chemical data**

- Physical state:	Liquid
- Color:	reddish
- Odor:	product specific
- Melting point / range:	approx. -1
- Boiling point / range:	approx. 100
- Flash point:	n.a.
- Ignition temperature:	n.a.
- Autoignition:	n.a.
- Explosion hazard:	n.a.
- Inflammability limits in air.:	n.a.
- Vapor pressure:	n.d.a.
- Density:	1,05 kg/Ltr.
- Solubility in / miscibility with water:	at any proportion
- pH-Value:	(concentrate) approx. 12,8
- 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:** None.

11. Toxicological data

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

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Multi 2000**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**- General information**

UN no. 1824

- Street and rail transport

GGVS/ADR: Class 8, item 42 b

GGVE/RID: Class 8, item 42 b

Kemler no.: 80

- Transport by sea vessels

IMDG code: Class 8

UN no.: 1824 Packaging group: II

EMS no. 8 / 06 MFAG: 705

- Transport by airplanes

ICAO/IATA-DGR: Class 8

UN/ID no.: 1824 Packaging group: II

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Multi 2000**15. Regulations**

- **Labeling according to EC directive:** 38/379/EC
- **Danger symbol and classification:** C - Corrosive
- **Dangerous ingredient(s):** < 5% sodium metasilicate (forms soda lye in aqueous solution).
- **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