

## Material safety data sheet

### 1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

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#### Reference Dishwashing detergent Formula D

Order Code: 88104, WFK GSM D

Company/undertaking identification:  
wfk -Testgewebe GmbH

Telephone: +49-2157-871977  
Fax: +49-2157-90657

### 2. COMPOSITION/INFORMATION IN INGREDIENTS

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reference dishwashing detergent for performance testing

Declaration according 91/155/ECC:

**10 % Disilicates**  
Symbol: Xi  
R-Phrases: 37/38/41  
**30 % Citrate**  
**41 % Sodium carbonate**  
Symbol : Xi  
R-Phrases: 36  
**7 % Bleaching agent on oxygen basis**  
Symbol: Xn, O  
R-Phrases: 8, 22, 36/38  
**2 % Non-ionic surfactants**  
Symbol: Xi  
R-Phrases: 38  
**6 % Polycarboxylate**  
**2 % TAED**  
**2 % Sulphate, enzymes and water**

### 3. HAZARDS IDENTIFICATION OF THE PRODUCT

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Xi: irritant  
R 41 Risk of serious damage to eyes.

### 4. FIRST AID MEASURES

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**after inhalation:** Supply fresh air, oxygen, call for doctor.  
**after skin contact:** Rinse with running water and Soap. Skin care. Remove contaminated clothes.  
**after eye contact:** Immediately flush eyes with water (for 10 minutes), put on a bandage with sterile gauze, see an oculist.  
**after ingestion:** Flush oral cavity, drink plenty of water, see a physician.

### 5. FIRE-FIGHTING MEASURES

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**Suitable extinguishing media:** Non-combustible – danger of decomposition if exposed to heat.

**Extinguishing media which must not be used for safety reasons:**  
none known

**Special exposure hazards arising from the product itself, from combustion products or from resulting gases:**  
intensifies fire by releasing oxygen

**Special protective equipment for fire-fighters:** no special measures necessary;

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### 6. ACCIDENTIAL RELEASE MEASURES

**Personal precautions:** Avoid contact with skin and eyes.  
**Environmental precautions:** Do not allow large amounts to be released into sewer system.  
**Methods of cleaning up/of removing:** Remove dry, forms a slippery coating with water;

### 7. HANDLING AND STORAGE

**Handling:** no special measures required  
**Storage:** store in a cool, dry place;

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Information on the system design:** no special measures required.  
**Components with specific control parameters:** none  
**Personal protection:** avoid eye-contact; avoid skin-contact.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state** powder  
**Colour** white  
**Odour** neutral  
**pH** (at 10 g/l H<sub>2</sub>O) (20 °C) ca. 11  
**Flash point** not applicable  
**Solubility** (20 °C) soluble in water  
**Bulk density** ca. 850 kg/m<sup>3</sup>

### 10. STABILITY AND REACTIVITY

**Conditions to avoid:** Avoid heating.  
**Materials to avoid:** Reacts with acids: heat generated and carbon dioxide released.  
**Hazardous decomposition products:** none if used for intended purpose.

### 11. TOXICOLOGICAL INFORMATION

No data from animal studies available.

### 12. ECOLOGICAL INFORMATION

The following ecological data are estimated on the basis of the raw materials contained in the product and/or of structurally comparable substances.

**Persistence and degradability:** The surfactants contained in the product obliged by biodegradability requirements of the surfactant regulation of June 4, 1986 (Germany) are in the mean degradable for at least 90 %. In tests for ready degradability (e.g. OECD 301 A-F) the total organic products contained in the product achieved only values below 60 % BOD/COD and 70 % DOC reduction (tolerance value for classification as "ready degradable":  $\geq 70$  % DOC reduction and  $\geq 60$  % BOD/COD in 28 days).

**aquatic Toxicity:** Acute fish toxicity: LC 50 > 10 to 100 mg product/l.  
Acute bacteria toxicity: EC 50 > 10 – 100 mg product/l.

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### 13. DISPOSAL CONSIDERATIONS

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Can be added to household waste in small quantities.

### 14. TRANSPORT INFORMATION

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Not hazardous material according to RID/ADR, GGVS/GGVE, ADN, IMDG, ICAO-TI/IATA-GDR.

### 15. REGULATORY INFORMATION

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#### Classification and labelling according to GefStoffV:

**Symbols of danger:** Xi irritant

**R-Phrases:**

R 41: Risk of serious damage to eyes

R 37/38: Irritating to respiratory system and skin

**S-Phrases:**

S 2: Keep out of reach of children

S 22: Do not breathe dust

S 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 36/37/39: Wear suitable protective clothing, gloves and eye/face protection.

S 46: If swallowed, seek medical advice immediately and show this container or label.

#### National prescriptions:

Water hazard class (WGK): 1 (self classification on the basis of component assessments or analogy conclusions without addition/subtraction of points for good/poor biodegradability etc.)

### 16. OTHER INFORMATION

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This information is not related to the use of the product