

wfk Testgewebe GmbH



Revised: 21.07.2006, Date printed: 21.08.2006

### 01 Identification of the substance / preparation and of the company

**Product:** IEC 60436 Dishwasher Reference Detergent Typ A  
**Use:** Dishwash detergent

**Company:** wfk Testgewebe GmbH  
Christenfeld 10  
41379 Brüggen-Bracht

**Phone:** +49-2157-871977 **Fax:** +49-2157-90657  
**eMail:** info@testgewebe.de **Homepage:** www.testgewebe.de  
**Emergency phone:** +49-2157-871977

### 02 Composition / Information on ingredients

Substance	EINECS/ELINCS	CAS	Range [%]	Symbol / R-phr.
Sodium carbonate	207-838-8	497-19-8	1 - < 20	Xi-36
Sodium dichloroisocyanurate dihydrate	220-767-7	51580-86-0	0,25 - < 2,5	N-Xn-22-31-36/37-50/53
Disodium metasilicate	229-912-9	6834-92-0	40 - < 60	C-34-37

### 03 Hazards identification

R 31: Contact with acids liberates toxic gas. R 34: Causes burns. R 37: Irritating to respiratory system. R 52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### 04 First aid measures

**General information** Remove contaminated soaked clothing immediately and dispose of safely.

**Inhalation** Ensure supply of fresh air. Summon a doctor immediately.

**Skin contact** In case of contact with skin wash off immediately with soap and water. Immediate medical treatment necessary, as untreated burns can result in slow-healing wounds.

**Eye contact** In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice. Shield unaffected eye.

**Ingestion** Do not induce vomiting. Rinse out mouth and give plenty of water to drink. Summon a doctor immediately.

**Advice to doctor** Treat symptomatically.

### 05 Fire-fighting measures

**Suitable extinguishing media** Product itself is non-combustible, fire extinguishing method of surrounding areas must be considered.

**Extinguishing media that must not be used** Full water jet.

**Special exposure hazards arising from the substance or preparation itself or combustion products** Risk of formation of toxic pyrolysis products. Hydrogen cyanide (HCN).

**Special protective equipment for firefighters** Use self-contained breathing apparatus. Wear full protective suit. Do not inhale explosion and/or combustion gases.

**Additional information** Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

#### 06 Accidental release measures

<b>Personal precautions</b>	Ensure adequate ventilation. Avoid dust formation. Use personal protective clothing. Use breathing apparatus if exposed to vapours/dust/aerosol.
<b>Environmental precautions</b>	Do not discharge into the drains/ surface waters/ groundwater.
<b>Methods for cleaning up/taking up</b>	Avoid raising dust. Dispose of absorbed material in accordance with the regulations. Take up mechanically.

#### 07 Handling and storage

<b>Advice on safe handling</b>	Avoid the formation and deposition of dust. Use only in well-ventilated areas.
<b>Advice on protection against fire and explosion</b>	The product is not combustible. No special measures necessary.
<b>Requirements for storage rooms and vessels</b>	Provide alkali-resistant floor. Keep only in original container.
<b>Advice on storage compatibility</b>	Do not store together with acids.
<b>Further information on storage conditions</b>	Keep in a cool place. Keep container in a well-ventilated place. Keep container tightly closed. Store in a dry place. Store in a dark place. Protect from heat/overheating.

#### 08 Exposure controls / personal protection

##### Additional advice on system design

Ensure adequate ventilation on workstation.

**Ingredients with occupational exposure limits to be monitored: Not applicable.**

<b>Respiratory protection</b>	Breathing apparatus in the event of high concentrations. Short term: filter apparatus, Filter P2.
<b>Hand protection</b>	Butyl rubber, >480 min (EN 374)
<b>Eye protection</b>	Tightly fitting goggles.
<b>Skin protection</b>	Alkali-resistant protective clothing.
<b>General protective measures</b>	Do not inhale dust. Avoid contact with eyes and skin.
<b>Hygiene measures</b>	At work do not eat, drink, smoke or take drugs. Remove soiled or soaked clothing immediately. After worktime and before work breaks the affected skin areas must be thoroughly cleaned. Use barrier skin cream.
<b>Delimitation and monitoring of the environmental exposition</b>	Not determined.

### 09 Physical and chemical properties

<b>Form:</b>	Powder.	<b>Vapour pressure [kPa]:</b>	Not applicable.
<b>Colour:</b>	White.	<b>Density [g/ml]:</b>	Not determined. 20°C
<b>Odour:</b>	Characteristic.	<b>Bulk density [kg/m<sup>3</sup>]:</b>	Not determined.
<b>pH-value:</b>	Strongly alkaline.	<b>Solubility in water:</b>	Soluble.
<b>pH-value, 1%</b>	Not determined.	<b>Partition coefficient: n-octanol / water:</b>	Not determined.
<b>Boiling point [°C]:</b>	Not determined.	<b>Viscosity:</b>	Not applicable.
<b>Flash point [°C]:</b>	Not applicable.	<b>Relative vapour density determined in air:</b>	Not applicable.
<b>Flammability:[°C]</b>	Not applicable.	<b>Evaporation speed:</b>	Not applicable.
<b>Lower explosion limit:</b>	Not applicable.	<b>Melting point [°C]:</b>	Not determined.
<b>Upper explosion limit:</b>	Not applicable.	<b>Autoignition temperature [°C]:</b>	Not applicable.
<b>Combustible properties:</b>	No.	<b>Decomposition temperature [°C]:</b>	Not determined.

### 10 Stability and reactivity

<b>Hazardous reactions</b>	Reactions with acids. Contact with acids liberates toxic gases.
<b>Hazardous decomposition products</b>	No hazardous decomposition products known.

### 11 Toxicological information

<b>Acute oral toxicity OECD 401</b>	Not determined.
<b>Experiences made in practice</b>	Product is caustic.
<b>General remarks</b>	No toxicological data are available. The product was classified on the basis of the calculation procedure of the preparation directive.

### 12 Ecological information

<b>AOX-advice</b>	The product contains organically bound halogen in accordance with the formulation.
<b>76/464/EC</b>	Yes.
<b>General information</b>	Ecological data are not available.

### 13 Disposal considerations

<b>Disposal / Product</b>	Dispose of as hazardous waste.
<b>Waste no. (recommended)</b>	060205*
<b>Disposal / Contaminated packaging</b>	Uncontaminated packaging may be taken for recycling. Packaging that cannot be cleaned should be disposed of as for product.

#### 14 Transport information

**Classification according to** 8

**ADR:**

**Declaration:** UN 3253 Disodium trioxosilicate, mixture, 8, III  
**Labelling:** UN 3253  
**Factor, ADR 1.1.3.6:** 1  
**LQ, ADR 3.4.6:** LQ24  
**Hazard-no:** 80  
**Label:** 8  
**Vapour pressure [kPa]:** Not applicable.

**Classification according to** 8

**IMDG:**

**Declaration:** UN 3253, Disodium trioxosilicate, mixture, 8, PG: III  
**Labelling:** Disodium trioxosilicate, mixture, UN 3253, Class: 8  
**Label:** 8  
**LQ, [l, kg]:** 5  
**EmS:** F-A, S-B

**Classification according to** 8 III

**IATA:**

**Declaration:** Disodium trioxosilicate, mixture, Class: 8 UN 3253 III  
**Labelling:** Disodium trioxosilicate, mixture UN 3253  
**Label:** Corrosive

#### 15 Regulatory information

**Labelling:** The product is classified and labelled in accordance with EC directives

**Hazard symbols**



Contains: Disodium metasilicate

R 31: Contact with acids liberates toxic gas. R 34: Causes burns. R 37: Irritating to respiratory system. R 52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S 22: Do not breathe dust. S 25: Avoid contact with eyes. 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 45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S 60: This material and its container must be disposed of as hazardous waste.

#### 15.1 Special labelling for certain preparations

Not applicable.

#### 15.2 Sources of documentation

EEC: 91/155 (2001/58); 67/548 (2004/73), 29. ATP; 1999/45 (2001/60); 91/689 (2001/118); 89/542; 1999/13; 2004/42

Transport information: ADR (2005); IMDG-Code (32.Amdt.); IATA-DGR (2006)

#### 15.3 National regulations(gb)

EH40/2002 Occupational Exposure Limits Supplement 2003

Revised: 21.07.2006, Date printed: 21.08.2006

## 16 Other informations

### (Information on ingredients - Position 02)

R 22: Harmful if swallowed.

R 31: Contact with acids liberates toxic gas.

R 34: Causes burns.

R 36: Irritating to eyes.

R 36/37: Irritating to eyes and respiratory system.

R 37: Irritating to respiratory system.

R 50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### 16.1 Additional information

**Observe employment restrictions for people** Yes.

**VOC, 1999/13/EG** Not applicable.

**Customs Tariff** Not determined.

### 16.2 Information on ingredients

**2004/42/EG** , VOC max.: g/l, Contains: g/l

**UBA-Registration** 6083 0001

**648/2004/EG, Contains:** <5% chlorine-based bleaching agents  
15% - 30% phosphates

### 16.3 Modified position:

chapter	modified
---------	----------

05	Product itself is non-combustible, fire extinguishing method of surrounding areas must be considered. (plus)
----	--

07	The product is not combustible. (plus)
----	--