

## **SECTION 1: Identification of the substance/mixture and of the company/undertaking**

### **1.1. Product identifier**

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### **1.2. Relevant identified uses of the substance or mixture and uses advised against**

#### **Use of the substance/mixture**

Enzymatic cleaner.

### **1.3. Details of the supplier of the safety data sheet**

Company name: Dr. Schumacher GmbH  
Street: Postfach 11 62  
Place: D-34201 Melsungen  
Telephone: +49 (0) 5664/9496-0 Telefax: +49 (0) 5664/8444  
Responsible Department: Responsible for the safety data sheet: sds@gbk-ingelheim.de

### **1.4. Emergency telephone number:**

INTERNATIONAL: +49 - (0) 6132 - 84463, GBK GmbH (24h - 7d/w - 365d/a)  
England and Wales: NHS Direct - 0845 4647; Scotland: NHS 24 - 08454 24 24  
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## **SECTION 2: Hazards identification**

### **2.1. Classification of the substance or mixture**

Indications of danger: Xi - Irritant

R phrases:

Irritating to eyes.

#### **GHS classification**

Hazard categories:

Serious eye damage/eye irritation: Eye Dam. 1

Hazard Statements:

Causes serious eye damage.

### **2.2. Label elements**

#### **Hazardous components which must be listed on the label**

Alcohol ethoxylate C9-C11

Signal word: Danger

Pictograms: GHS05



#### **Hazard statements**

H318 Causes serious eye damage.

#### **Precautionary statements**

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

#### **Special labelling of certain mixtures**

EUH208 Contains Amylase, alpha, Subtilisin, Lipase, triacylglycerol. May produce an allergic reaction.

### **2.3. Other hazards**

Not known.

**SECTION 3: Composition/information on ingredients**

**3.2. Mixtures**

**Chemical characterization**

Mixture of the following substances with non-hazardous admixtures

**Hazardous components**

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
	Alcohol ethoxylate C9-C11	< 10 %
68439-46-3	Xn - Harmful, Xi - Irritant R22-41	
	Acute Tox. 4, Eye Dam. 1; H302 H318	
201-069-1	Citric acid, monohydrate	< 5 %
5949-29-1	Xi - Irritant R36	
	Eye Irrit. 2; H319	
01-2119457026-42		
233-139-2	boric acid	< 5 %
10043-35-3	Repr. Cat. 2 R60-61	
005-007-00-2	Repr. 1B; H360FD	
01-2119486683-25		
232-752-2	Subtilisin	< 1 %
9014-01-1	Xi - Irritant R37/38-41-42	
647-012-00-8	Skin Irrit. 2, Eye Dam. 1, Resp. Sens. 1, STOT SE 3, Aquatic Acute 1; H315 H318 H334 H335 H400	
01-2119480434-38		
232-565-6	Amylase, alpha	< 1 %
9000-90-2	R42	
647-015-00-4	Resp. Sens. 1; H334	
01-2119938627-26		
232-619-9	Lipase, triacylglycerol	< 1 %
9001-62-1	R42	
	Resp. Sens. 1; H334	
01-2119972939-13		

Full text of R and H phrases: see Section 16.

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**General information**

Remove contaminated soaked clothing immediately.

If you feel unwell, seek medical advice.

**After inhalation**

Move to fresh air in case of accidental inhalation of vapours or decomposition products.

In the event of symptoms refer for medical treatment.

**After contact with skin**

In case of contact with skin wash off with soap and water.

Consult a doctor if skin irritation persists.

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#### **After contact with eyes**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Seek medical treatment by eye specialist.

#### **After ingestion**

Do not induce vomiting.  
Rinse out mouth and give plenty of water to drink.  
Never give anything by mouth to an unconscious person.  
Consult a physician.  
Induce vomiting only upon the advice of a physician.

#### **4.2. Most important symptoms and effects, both acute and delayed**

Causes serious eye damage.  
Watch out. Beware, hazard of foam aspiration.

#### **4.3. Indication of any immediate medical attention and special treatment needed**

Treat symptoms.

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### **SECTION 5: Firefighting measures**

#### **5.1. Extinguishing media**

##### **Suitable extinguishing media**

Alcohol-resistant foam, dry chemical, carbon dioxide (CO<sub>2</sub>), water-spray.  
Product does not burn, fire-extinguishing activities according to surrounding.

##### **Unsuitable extinguishing media**

Full water jet.

#### **5.2. Special hazards arising from the substance or mixture**

Fire may produce:  
Carbon monoxide and carbon dioxide.

#### **5.3. Advice for firefighters**

Use breathing apparatus with independent air supply.  
Protective suit.

#### **Additional information**

Cool containers at risk with water spray jet.  
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

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### **SECTION 6: Accidental release measures**

#### **6.1. Personal precautions, protective equipment and emergency procedures**

In case of vapour formation use respirator.  
Ensure adequate ventilation.  
Use personal protective clothing.

#### **6.2. Environmental precautions**

Do not discharge into the drains/surface waters/ground water.

#### **6.3. Methods and material for containment and cleaning up**

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).  
Shovel into suitable container for disposal.

#### **6.4. Reference to other sections**

Observe protective instructions (see Sections 7 and 8).  
Information for disposal see section 13.

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### **SECTION 7: Handling and storage**

#### **7.1. Precautions for safe handling**

##### **Advice on safe handling**

Keep container tightly closed.

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Use only in thoroughly ventilated areas.

Avoid contact with skin, eyes and clothing.

**Advice on protection against fire and explosion**

No special protective measures against fire required.

**7.2. Conditions for safe storage, including any incompatibilities**

**Requirements for storage rooms and vessels**

Keep containers tightly closed in a dry, well-ventilated place.

**Advice on storage compatibility**

Incompatible with oxidizing agents.

**Further information on storage conditions**

Keep away from food, drink and animal feeding stuffs.

**7.3. Specific end use(s)**

Enzymatic cleaner.

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**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
57-55-6	Propane-1,2-diol, particulates	-	10		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL
9014-01-1	Subtilisins (Bacillus subtilis Carlsberg)	-	0.00004		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

**8.2. Exposure controls**

**Appropriate engineering controls**

Ensure adequate ventilation, especially in confined areas.

**Protective and hygiene measures**

Wash hands before breaks and after work.

When using, do not eat, drink or smoke.

Avoid contact with eyes and skin.

Remove and wash contaminated clothes before re-use.

**Eye/face protection**

Tightly fitting goggles (EN 166).

Eye wash bottle with pure water (EN 15154).

**Hand protection**

Suitable are gloves made of following materials (breakthrough time  $\geq$  8 hours):

Natural rubber/latex - NR (0,5 mm) (use powder free and allergene-free products)

Polychloropren - CR (0,5 mm)

Nitrile rubber/nitrile latex - NBR (0,35 mm)

Butyl rubber - Butyl (0,5 mm)

Fluoro-rubber - FKM (0.4 mm)

Polyvinyl chloride - PVC (0.5 mm)

**Skin protection**

Long sleeved clothing (EN 368).

**Respiratory protection**

No personal respiratory protective equipment normally required.

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## **SECTION 9: Physical and chemical properties**

### **9.1. Information on basic physical and chemical properties**

Physical state: Liquid  
Colour: Blue  
Odour: Mild

pH-Value (at 20 °C): 8,03 **Test method**

#### **Changes in the physical state**

Flash point: n.d.  
Lower explosion limits: n.d.  
Upper explosion limits:  
Ignition temperature: n.d.  
Density (at 20 °C): 1,0203 g/cm<sup>3</sup>  
Water solubility: Miscible  
(at 20 °C)

### **9.2. Other information**

No data available.

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## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

No decomposition if stored and applied as directed.

### **10.2. Chemical stability**

Stable under normal conditions.

### **10.3. Possibility of hazardous reactions**

Reactions with oxidizing agents.

### **10.4. Conditions to avoid**

To avoid thermal decomposition, do not overheat.

### **10.5. Incompatible materials**

Strong oxidizing agents

### **10.6. Hazardous decomposition products**

Carbon monoxide and carbon dioxide.

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## **SECTION 11: Toxicological information**

### **11.1. Information on toxicological effects**

#### **Acute toxicity**

Based on available data, the classification criteria are not met.

No toxicological data available.

CAS No	Chemical name	Exposure routes	Method	Dose	Species	Source
68439-46-3	Alcohol ethoxylate C9-C11	oral	LD50 mg/kg	300 - 2000	Rat	
5949-29-1	Citric acid, monohydrate	oral	LD50	3000 mg/kg	Rat	

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**Irritation and corrosivity**

Causes serious eye damage.  
Skin irritation: Not classified.

**Sensitising effects**

Based on available data, the classification criteria are not met.

**STOT-single exposure**

Based on available data, the classification criteria are not met.

**Severe effects after repeated or prolonged exposure**

Based on available data, the classification criteria are not met.

**Carcinogenic/mutagenic/toxic effects for reproduction**

Based on available data, the classification criteria are not met.  
Carcinogenicity: Not classified.  
Mutagenicity: Not classified.  
Reproductive toxicity: Not classified.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**Additional information on tests**

Classification in compliance with the assessment procedure specified in the Regulation (EC) no 1272/2008.

**Practical experience**

**Other observations**

Repeated or long-term contact with enzymes will lead to allergic reactions of skin and respiratory tract  
Watch out. Beware, hazard of foam aspiration.

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**SECTION 12: Ecological information**

**12.1. Toxicity**

Ecological data are not available.

**12.2. Persistence and degradability**

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

**12.3. Bioaccumulative potential**

No data available.

**12.4. Mobility in soil**

No data available.

**12.5. Results of PBT and vPvB assessment**

According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT / vPvB substance.

**12.6. Other adverse effects**

Hazardous water pollutant.

**Further information**

This concentrate is not allowed to be released into the sewerage, surface water or groundwater.

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**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Advice on disposal**

Where possible recycling is preferred to disposal.  
Can be incinerated, when in compliance with local regulations.

**Waste disposal number of waste from residues/unused products**

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070699 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; wastes not otherwise specified

#### **Contaminated packaging**

Empty containers should be taken for local recycling, recovery or waste disposal.

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

Packaging that cannot be cleaned should be disposed of like the product.

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### **SECTION 14: Transport information**

#### **Other applicable information**

No hazardous material as defined by the transport regulations.

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### **SECTION 15: Regulatory information**

#### **15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

##### **EU regulatory information**

1999/13/EC (VOC): 0 %

##### **Additional information**

Regulation (EC) No 648/2004 (Regulation on detergents):

5 - 15% Non-ionic surfactants, 2-methyl-2H-isothiazol-3-one, 1,2-benzisothiazol-3(2H)-one,

1,2-benzisothiazolin-3-one,

Enzymes Protease, amylase, lipase

##### **National regulatory information**

Employment restrictions: Observe employment restrictions for young people. Observe employment restrictions for child bearing mothers and nursing.

Water contaminating class (D): 2 - water contaminating

#### **15.2. Chemical safety assessment**

For this substance a chemical safety assessment has not been carried out.

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### **SECTION 16: Other information**

#### **Abbreviations and acronyms**

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route

RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses

ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure

IMDG = International Maritime Code for Dangerous Goods

IATA/ICAO = International Air Transport Association / International Civil Aviation Organization

MARPOL = International Convention for the Prevention of Pollution from Ships

IBC = Code International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

REACH = Registration, Evaluation, Authorization and Restriction of Chemicals

CAS = Chemical Abstract Service

EN = European norm

ISO = International Organization for Standardization

VOC = Volatile organic compound

STOT SE = Specific target organ toxicity single exposure

STOT RE = Specific target organ toxicity repeated exposure

PBT = Persistent Bioaccumulative and Toxic

vPvB = Very Persistent and very Bio-accumulative

bw = body weight

LD = Lethal dose

LC = Lethal concentration

EC = Effect concentration

IC = Median immobilisation concentration or median inhibitory concentration

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**Full text of R phrases referred to under Sections 2 and 3**

- 22 Harmful if swallowed.
- 36 Irritating to eyes.
- 37/38 Irritating to respiratory system and skin.
- 41 Risk of serious damage to eyes.
- 42 May cause sensitisation by inhalation.
- 60 May impair fertility.
- 61 May cause harm to the unborn child.

**Full text of H statements referred to under Sections 2 and 3**

- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.
- H360FD May damage fertility. May damage the unborn child.
- H400 Very toxic to aquatic life.

**Further Information**

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

(n.a. = not applicable; n.d. = not determined)

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*