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

### 1.1. Product identifier

Name of product Harzlöser

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

#### ! Recommended intended purpose(s)

Removing of resin

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

#### Manufacturer

F.W.Klever  
Hauptstraße 20, D-84168 Aham  
Phone +49 (0) 8744 96 99 10, Fax + 49 (0) 8744 96 99 96  
E-Mail info@ballistol.de  
Internet www.ballistol.de

#### Advice

Qualitätssicherung  
Phone +49 (0) 8744 96 99 30  
E-mail (competent person):  
info@ballistol.de

### 1.4. Emergency telephone number

#### Emergency advice

Dr.Zettler (Werktags von 8.00 Uhr bis 16.00 Uhr)  
Phone +49 (0) 8744 96 99 30  
This number is only available at office times.

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## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to 67/548/EEC or 1999/45/EC

Xi; R36/38

#### R-phrases

36/38 Irritating to eyes and skin.

#### Additional hints

To be kept away from children

#### Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]

Hazard classes and Hazard categories	Hazard Statements	Classification procedure
Skin Irrit. 2	H315	
Eye Irrit. 2	H319	
STOT SE 3		

#### Hazard statements for health hazards

H315 Causes skin irritation.  
H319 Causes serious eye irritation.

## 2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]



GHS07

### Signal word

Warning

### Hazard statements for health hazards

H315 Causes skin irritation.  
H319 Causes serious eye irritation.

### Precautionary Statements

#### ! Prevention

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 Wash hands thoroughly after handling.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

#### Response

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P304 + P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P312 Call a POISON CENTER or doctor/physician if you feel unwell.  
P332 + P313 If skin irritation occurs: Get medical advice/attention.  
P337 + P313 If eye irritation persists: Get medical advice/attention.  
P362 Take off contaminated clothing and wash before reuse.

#### ! Storage

P405 Store locked up.

## 2.3. Other hazards

No information available.

## ! SECTION 3: Composition/ information on ingredients

### 3.1. Substances

not applicable

### 3.2. Mixtures

#### Hazardous ingredients

CAS No	EC No	Name	[% weight]	Classification according to 67/548/EEC
1310-58-3	215-181-3	potassium-hydroxide	< 5	Xn R22; C R35



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#### Hazardous ingredients (continued)

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
1310-58-3	215-181-3	potassium-hydroxide	< 5	Acute Tox. 4, H302 / Skin Corr. 1A, H314

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## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### In case of inhalation

Remove the casualty into fresh air and keep him immobile.  
If intensive inhalation of fumes seek medical treatment immediately.

#### In case of skin contact

In case of contact with skin wash off immediately with plenty of water.  
Consult a doctor if skin irritation persists.

#### In case of eye contact

In case of contact with eyes rinse with plenty of water carefully. In the event of persistent symptoms seek medical treatment.

#### In case of ingestion

If swallowed seek medical advice immediately and show the doctor packing or label.  
Rinse out mouth and give plenty of water to drink.

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

No information available.

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

#### Treatment (Advice to doctor)

Treat symptoms.

After swallowing: Early endoscopy, to evaluate possibly occurred alternation of the mucous membrane in oesophagus and stomach. If necessary suction of remained substance.

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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

No information available.

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

No information available.

### 5.3. Advice for firefighters

#### Additional information

Product is incombustible

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## ! SECTION 6: Accidental release measures

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

Use personal protective clothing.  
Avoid contact with substance



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#### 6.2. Environmental precautions

Do not discharge into surface waters/groundwater.

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

Dilute with water.

Flush away residues with water.

Take up mechanically and send for disposal.

#### 6.4. Reference to other sections

No information available.

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### ! SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

##### Advice on safe handling

No special measures necessary if used correctly.

##### General protective measures

Avoid contact with eyes and skin

##### Hygiene measures

Clean skin thoroughly after working.

At work do not eat, drink, smoke or take drugs.

Remove soiled or soaked clothing immediately.

##### Advice on protection against fire and explosion

The product is not combustible.

No special measures necessary.

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

##### Requirements for storage rooms and vessels

Keep in closed original container.

##### Advice on storage compatibility

Do not store together with food.

#### ! Further information on storage conditions

Keep container tightly closed, open and handle carefully.

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

No information available.

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No information available.

#### 8.2. Exposure controls

##### Respiratory protection

Not required with correct application

##### Hand protection

Gloves (alkali-resistant)

The material of the gloves has to be impermeable and consistent for the substance. Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

##### Eye protection

With demand: protective glasses



**Skin protection**  
Not required with correct application

## ! SECTION 9: Physical and chemical properties

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

<b>Form</b>	<b>Colour</b>	<b>Odour</b>
viscous	brownish	product-specific

### Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
<b>pH value in delivery state</b>	ca. 12,5	20 °C			
<b>pourpoint</b>	-15 °C				
<b>Flash point</b>					No flash point Measurement had been done until boiling temperature.
<b>Relative density</b>	1,055 g/cm <sup>3</sup>	20 °C	1013 hPa		
<b>Solubility in water</b>					multimiscible
<b>Viscosity kinematic</b>	ca. 35 mm <sup>2</sup> /s	20 °C			

**9.2. Other information**  
No information available.

## ! SECTION 10: Stability and reactivity

**10.1. Reactivity**  
No information available.

**10.2. Chemical stability**  
No information available.

**10.3. Possibility of hazardous reactions**  
Acid, concentrated  
Oxidising agent, strong

**10.4. Conditions to avoid**  
No hazardous reactions known.

**10.5. Incompatible materials**  
No information available.

**10.6. Hazardous decomposition products**  
No hazardous decomposition products known.

**Additional information**  
Product is stable under normal storage conditions



## ! SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity/Irritability/Sensitization

	Value/Validation	Species	Method	Remark
<b>LD50 acute oral</b>	6400 mg/kg	rat		
<b>Irritability skin</b>	irritant			experiences
<b>Irritability eye</b>	strong irritant			experiences
<b>Skin sensitization</b>	non-sensitizing			experiences

#### ! Toxicity test (Additional information)

No experimental indication of genotoxicity in vitro ( Ames-test negative ).  
No experimental indication of genotoxicity in vivo (micronucleus test negative ).  
There is no risk for a normal operation application

#### Additional information

The product has to be handled with usual caution for chemicals

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Ecotoxicological effects

	Value	Species	Method	Validation
<b>Fish</b>	LC50 > 5000 mg/l (96 h)	Oncorhynchus mykiss		
<b>Daphnia</b>	EC50 > 1500 mg/l (48 h)	Daphnia magna		
<b>Algae</b>	EC50 > 1000 mg/l (72 h)	Selenastrum capricornutum		
<b>Bacteria</b>	EC50 > 10000 mg/l (4 h)	Nitrifizierende Bakterien		

### 12.2. Persistence and degradability

#### Biological

#### degradability

The used surfactants comply the terms of the biodegradability in the regulation (EG) Nr. 648/2004. readily degradable

#### Biological

#### eliminability

The product is readily biodegradable to OECD criteria.

### 12.3. Bioaccumulative potential

No information available.

### 12.4. Mobility in soil

No information available.

### 12.5. Results of PBT and vPvB assessment

No information available.

### 12.6. Other adverse effects



### Behaviour in sewage plant

When low concentrations are discharged correctly into adapted biological sewage treatment plants, interference with the degradation activity of activated sludge is not likely.

### General regulation

The breakdown properties of the product have not been tested. The information on these is given on the basis of details in the literature.

The behaviour of the product in sewage treatment plants has not been tested. The information on this is given on the basis of details in the literature.

The ecotoxic effect of the product has not been tested. The information on this is given on the basis of details in the literature.

This surfactant complies with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Recommendations for the product

Incinerate in suitable incineration plant, but care for official regulations.

#### Recommendations for packaging

Uncontaminated packaging may be taken for recycling.

Barrel: return by DSD ( Dualistic System Germany )

#### Recommended cleansing agent

Water

#### General information

Waste removal corresponding to official directives

## ! SECTION 14: Transport information

### Land and inland navigation transport ADR/RID

No dangerous goods as defined by these transport regulations.

### Marine transport IMDG

No dangerous goods as defined by these transport regulations.

### Air transport ICAO/IATA-DGR

No dangerous goods as defined by these transport regulations.

### Transport/further information

No dangerous goods as defined by the transport regulations - ADR/RID, IMDG, ICAO/IATA-DGR.

### Special precautions for user

No information available.

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No information available.

## SECTION 15: Regulatory information

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

#### National regulations

Water hazard class 1 self-classification

No information available.



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### 15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

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## SECTION 16: Other information

### Recommended uses and restrictions

National and local regulations concerning chemicals shall be observed.

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.

Keep out of the reach of children.

### Further information

The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

### Wording of the R/H-phrases specified in chapter 3 (not the classification of the mixture!)

R 22 Harmful if swallowed.

R 35 Causes severe burns.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.