



## Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

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

#### 1.1. Product identifiers

**Eschol SR-Super**

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

Use of the substance/ preparation: Edelstahlbeize

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

Supplier (manufacturer/importer/  
downstream user/distributor): Dr.Hoeck GmbH

Chemietechnik  
Prinz-Regent-Straße 48  
44795 Bochum

Telephone: 0234-3384747

Telefax: 0234-3384874

E-mail (competent person): www.dr-hoeck.de info@dr-hoeck.de

#### 1.4. Emergency telephone number

### SECTION 2: Hazards identification

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

Classification according to Directive 67/548/EEC or 1999/45/EC:

Causes burns.

#### 2.2. Label elements

Labelling (67/548/EEC or 1999/45/EC):

Hazard symbol(s) and hazard identifier(s) for dangerous materials and preparations:

C



#### R phrases:

R phrases	
R34	Causes burns.

#### S-phrases:

S-phrases	
S22	Do not breathe dust.
S23.g	Do not breathe gas/vapour/aerosol.
S24/25	Avoid contact with skin and eyes.
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S-phrases	
S60	This material and its container must be disposed of as hazardous waste.

**2.3. Other hazards****SECTION 3: Composition / Information on ingredients****3.2. Mixtures****Hazardous ingredients:**

CAS No.	EC No	Chemical name:/ REACH registration No.	of (%)	up to (%)	Unit/ Content	Hazard symbol(s)	R phrases	INDEX no.
7664-38-2	231-633-2	orthophosphoric acid	20	50	% by weight	C	34	015-011-00-6
85536-14-7	287-494-3	Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.	1	10	% by weight	C	22-34	

Full text of R-phrases: see section 16.

**Labelling (CLP):**

CAS No.	EC No	Chemical name:/ REACH registration No.	Hazard pictograms	Signal word	Hazard statements
7664-38-2	231-633-2	orthophosphoric acid	GHS05	Danger	314
85536-14-7	287-494-3	Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.			

Full text of H-phrases: see section 16.

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information:**

Take off immediately all contaminated clothing. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**After inhalation:**

In case of inhaling spray mist, consult a doctor immediately and show him packing or label.

Remove casualty to fresh air and keep warm and at rest.

**In case of skin contact:**

After contact with skin, wash immediately with:

Water and soap.

In case of skin irritation, consult a physician.

**In case of eye contact:**

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart.

Subsequently consult an ophthalmologist.

Consult an ophthalmologist.

**After ingestion:**

Do not induce vomiting.

Rinse mouth immediately and drink plenty of water.

Consult physician immediately.

**4.2. Most important symptoms and effects, both acute and delayed****4.3. Indication of any immediate medical attention and special treatment needed****SECTION 5: Firefighting measures****5.1. Extinguishing media**

**Suitable extinguishing media:**

Co-ordinate fire-fighting measures to the fire surroundings.

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

Special exposure hazards arising from the substance or preparation itself, its combustion products or from resulting gases:

Phosphorus oxides.

**5.3. Advice for firefighters**

**Special protective equipment for firefighters:**

Use appropriate respiratory protection.

**Additional information:**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

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**SECTION 6: Accidental release measures**

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

**6.1.1. For non-emergency personnel**

**Personal precautions:**

Wear personal protection equipment.

Remove persons to safety.

**6.1.2. For emergency responders**

**6.2. Environmental precautions**

Do not allow to enter into soil/subsoil.

Do not allow to enter into surface water or drains.

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

**Methods for cleaning up:**

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Contaminated material as waste according to item 13.

Neutralizing agent to apply.

**6.4. Reference to other sections**

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**SECTION 7: Handling and storage**

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**7.1. Precautions for safe handling**

**Advices on safe handling:**

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

When diluting, always add the product to water. Never add water to the product.

Avoid aerosols.

\07-EC-01.01.01.11000\

Do not get in contact with skin and eye.

**Precautions against fire and explosion:**

No special fire protection measures are necessary.

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

**Requirements for storerooms and containers:**

take note of water law.

**Hints on joint storage:**

Not required

**Further information on storage conditions:**

Keep container tightly closed in a cool, well-ventilated place.

Recommended storage temperature above 15 ° C

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

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters**

Components with occupational exposure limits resp. biological occupational exposure limits requiring monitoring:

Occupational exposure limit values:

CAS No.	Chemical name	AGW (DE)	Unit	ppm	Peak limitation	Remark
7664-38-2	orthophosphoric acid	2E	mg/m3		2(I)	DFG, AGS, Y, EU

**Remarks:**

Als Grundlagen dienen die bei der Erstellung gültigen Listen.

**8.2. Exposure controls****8.2.1. Appropriate engineering controls****8.2.2. Personal protective equipment**

**Respiratory protection:** Wear breathing apparatus if exposed to vapours/dusts/aerosols.

**Hand protection:** Wear suitable protective clothing, gloves and eye/face protection.

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

**Suitable material:** NR (natural rubber, natural latex).

CR (polychloroprene, chloroprene rubber).

NBR (Nitrile rubber).

Butyl caoutchouc (butyl rubber).

FKM (fluoro rubber).

**Penetration time (maximum wearing period):** Permeationszeit/Durchbruchzeit: > 8 Stunden (DIN EN 374)

**Eye protection:** Avoid contact with skin and eyes. Wear suitable protective clothing, gloves and eye/face protection.

**Body protection:** Wear suitable protective clothing, gloves and eye/face protection.

Avoid contact with skin and eyes.

**General protection and hygiene measures:**

Keep away from food, beverages and feed.

Take off immediately all contaminated clothing.

Gases, aerosols and do not breathe fumes.

Avoid contact with skin and eyes.

Wash hands before breaks and after work.

**8.2.3. Environmental exposure controls:****SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

**Physical state:** flüssig

**Colour:** grau

**Odour:** charakteristisch

**Important health, safety and environmental information:**

		Unit		Method
pH:	n.a.		at °C 20	
Boiling temperature / boiling range:	100	°C	1014	mbar
Melting point / melting range:	n.a.	°C		
Flash point (°C):	n.a.	°C		
Ignition temperature in °C:	n.a.	°C		
Explosion limits (LEL, UEL):	n.a.			

**Flammability:** Gemisch ist nicht entzündlich.

**Spontaneously flammable:** Gemisch besitzt keine Selbstentzündlichkeit.

Vapour pressure: n.a.  
 Density: 1,8741 g/cm<sup>3</sup> at °C 20  
 Bulk density: n.a.  
 Water solubility (g/l): voll  
 Solubility (g/l) in: n.a.  
 Partition coefficient n-octanol /water (log P O/W): n.a.  
 Viscosity: n.b.  
 Solvent separation test (%): n.a.  
 Solvent content (%): n.a.

## 9.2. Other information

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

### 10.2. Chemical stability

### 10.3. Possibility of hazardous reactions

### 10.4. Conditions to avoid

Zur Vermeidung thermischer Zersetzung nicht überhitzen.

### 10.5. Incompatible materials

Alkalis (alkalis).

Light metals.

Heavy metals.

Metal, base.

### 10.6. Hazardous decomposition products

Decomposition under formation of: hydrogen.

phosphorus oxides.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity:

CAS No.	Chemical name	LD50: oral	Unit	Species	LD50: dermal	Unit	Species	LC50: inhalat iv	Unit	Species
7664-38-2	orthophosphoric acid	1530	mg/kg	Ratte	2740	mg/kg	Ratte			

#### Specific symptoms in animal studies:

nicht bestimmt

#### Irritant and corrosive effects:

an der Haut: Ätzende Wirkung auf der Haut und Schleimhäute.

am Auge: Starke Ätzwirkung.

#### Sensitisation:

Keine sensibilisierende Wirkung.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Aquatic toxicity:

nicht bestimmt

#### Terrestrial toxicity:

nicht bestimmt

#### Effects in sewage plants:

nicht bestimmt

**12.2. Persistence and degradability****12.3. Bioaccumulative potential**

CAS No.	Chemical name	Bioaccumulative potential
7664-38-2	orthophosphoric acid	In case of contact with eyes rinse thoroughly with water. In case of contact skin wash off immediately with plenty of water. Remove contaminated soaked clothing immediately and dispose of safely. The product does not burn; select suitable extinguishing media for surroundings.

**12.4. Mobility in soil****12.5. Results of PBT and vPvB assessment****12.6. Other adverse effects****SECTION 13: Disposal considerations****13.1. Waste treatment methods****Recommendation:**

This material and its container must be disposed of as hazardous waste.

**Recommendation:**

Die Abfallschlüsselnummer nach der Abfallverzeichnis-verordnung (AVV) ist abhängig vom Abfallerzeuger und kann dadurch für ein Produkt unterschiedlich sein. Die Abfallschlüsselnummer ist daher von jedem Abfallerzeuger gesondert zu ermitteln.

**Contaminated packaging:****Recommendation:**

This material and its container must be disposed of as hazardous waste.

Entsorgung gemäß den behördentlichen Vorschriften.

**SECTION 14: Transport information**

UN-No.: 1805

Hazard label: 8

**14.1. Land transport (ADR/RID)**

Class: 8

Classification code: C1 Packing Group: III

Tunnel restriction code: E

Special provisions: LQ7

Proper Shipping Name: UN 1805 PHOSPHORSÄURE, LÖSUNG

Remark: Beförderungskategorie: 3 Tunnelsbeschränkungscode: E

**14.2. Inland waterway craft (ADN/ADNR)****14.3. Sea transport (IMDG)**

IMDG-CODE-Class: 8

Packing Group: III EmS-No.: F-A,S-B

Marine pollutant: No

Proper Shipping Name: PHOSPHORIC ACID, SOLUTION

**14.4. Air transport (ICAO-TI / IATA-DGR)**

Class or Division: 8

Packing Group: III

Proper Shipping Name: PHOSPHORIC ACID, SOLUTION

**14.5. Additional information:****SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Water Hazard Class: 1

**15.2. Chemical Safety Assessment****SECTION 16: Other information****Relevant R-and H-phrases (Number and full text):**

R phrases	
R22	Harmful if swallowed.
R34	Causes burns.

Hazard statements	
H314	Causes severe skin burns and eye damage.