

<b>Trade Name:</b>	<b>STAHL Chemical Anchor M 20 – M 30</b>
<b>Producer/Supplier:</b>	<b>Stahl GmbH</b>
<b>Printing Date:</b>	<b>28.06.2001</b>

**1. Identification of the substance/preparation and of the company/undertaking****1.1 Description of substance or preparation**

**STAHL Chemical Anchor M 20 A- und B- Compound**  
**STAHL Chemical Anchor M 24 A- und B- Compound**  
**STAHL Chemical Anchor M 30 A- und B- Compound**

**1.2 Firm Name**

Stahl GmbH, Gerberstr. 18, D - 73650 Winterbach  
Telephone 07181/97772-0 Telefax 07181/97772-22

**1.3 Telephone in case of emergencies/Office for advice**

Alternative contact within the North America:

Wej-it Fastening Systems, 2415 E. 13<sup>th</sup> Place, Tulsa, OK 74104  
Telephone (918) 744-7444 Fax (918) 744-9918

**1.3.1 Telephone number of the firm in case of emergencies:**

Tel.: 07181/97772-0

Or Wej-it Fastening Systems Telephone (918) 744-7444 Fax (918) 744-9918

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**2. Composition/information on ingredients****2.1 Chem. name / % content / symbol / R-phrases**

Dibenzoyl peroxide; 10 - 30; E/Xi; 2-7-36-43; CAS 94-36-0  
Styrene; 1 < 12,5; Xi/Xn; 10-20-36/38; CAS 100-42-5

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**3. Hazards identification****3.1 To people**

Product is flammable

Skin contact:

May cause sensitization by skin contact.

Product is oxidizing.

Eye contact:

Irritation of the eyes.

These details refer to the cartridge before usage.

**3.2 To the environment**

See point 12.

Toxicity to fish:

LC50 Leuciscus idus 35 mg/l/48h (Styrene)

LC50/96h 2 mg/L Poecilia reticulata (Dibenzoyl peroxide); NOEC/96h 0,7 mg/l

Toxicity to daphnia:

LC50/96h 3,7 mg/l Daphnia magna (Dibenzoyl peroxide)

Toxicity to bacteria:

EC10 Pseudomonas putida 250 ul/l/18h (Styrene)

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#### **4. First aid measures**

##### **4.1 Inhalation**

Remove person from danger area.  
Supply person with fresh air.  
Keep data sheet available.

##### **4.2 Eye contact**

Wash thoroughly for several minutes using ample water  
(eye-wash bottle if possible) - call doctor immediately.  
Have data sheet available.

##### **4.3 Skin contact**

Wash thoroughly with soap and water - consult doctor if necessary.  
Remove contaminated clothing immediately.

##### **4.4 Ingestion**

Call doctor immediately, have data sheet available.  
Delayed effects from exposure can be expected (Styrene).

##### **4.5 Special resources necessary for first aid**

n.c.

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#### **5. Fire-fighting measures**

CO<sub>2</sub>

Water jet spray

Dry extinguisher

##### **5.2 Unsuitable fire extinguisher for reasons of safety**

Water jet

##### **5.3 Special dangers caused by the substance of preparation itself, results of fire/burning, or ensuring gases**

In case of fire the following can develop:

Gases hazardous to health

Carboxylic acids

Oxides of carbon

Organic decomposition products

Flammable vapour/air mixtures

Vapours hazardous to health

##### **5.4 Special protective equipment for fire fighting**

Protective respirator with independent air supply.

According to size of fire

Full protection, if necessary

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#### **6. Accidental release measures**

##### **6.1 Personal precautions**

Remove possible causes of ignition - do not smoke.

Avoid contact with eyes of skin.

Caution - possibility of sliding.

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## 6.2 Environmental measures

Prevent from entering drainage system.  
If leakage occurs, dam up.

## 6.3 Procedure for cleaning up

Collect using absorbant material (e.g. Universal binding medium), and dispose according to point 13. Collect mechanically and dispose according to point 13.

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## 7. Handling and storage

### 7.1 Handling

#### Tips for safe handling:

Only use working methods according to operating instructions.  
Keep away from sources of ignition - do not smoke.  
General hygiene measures for the handling of chemicals are applicable.

### 7.2 Storage

Not to be stored in gangways or stair wells.  
Only store products unopened, in original packing.  
Observe TRGS 515.

#### Special storage conditions:

See point 10.2  
Store cool  
Do not store over 25° C.  
Protect against moisture and store closed.  
Danger of explosion by storing in sealed containers.

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## 8. Exposure controls/personal protection

### Chem. name / % content / MAK-value / TRK-value / BAT-value / CAS

Dibenzoyl peroxide; 10 - 30; MAK 5 mg/m<sup>3</sup> / = 1  
Styrene; 1 - 12,5; MAK 20 ppm (86 mg/m<sup>3</sup>); BAT 600 mg/g

- |     |                                     |   |
|-----|-------------------------------------|---|
| 8.1 | Respiration protection:             | If MAK-value is exceeded. A or A-P2                     |
| 8.2 | Handprotection:                     | Protective PVC gloves                                   |
| 8.3 | Eye protection,<br>face protection: | Tightly fitting protective goggles with side protection |
| 8.4 | Body protection:                    | Protective working garments                             |

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## 9. Physical and chemical properties

Physical state:	B: solid, powder A: liquid
Colour:	B: white A: yellow
Odour:	B: odourless A: characteristic
pH-value undiluted:	B: 8
Boiling point/range (in ° C):	B: decomposition > 50 A: 145 (Styrene)

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Melting point/range (in ° C) :	B: ≈ 100 A: -31 (Styrene)
Flash point in ° C:	A: 31 (Styrene)
Autoflammability:	B: No
Oxidizing properties:	B: Yes A: No
Minimum limit of explosion:	A: 1,1 Vol% (Styrene)
Maximum limit of explosion:	A: 8,9 Vol% (Styrene)
Vapour pressure:	A: 6 hPa/20° C (Styrene)
Relative density (g/cm <sup>3</sup> ):	A: 1,2/20° C
Bulk density (kg/m <sup>3</sup> ):	B: 740/20° C A: 630/20° C
Solubility in water:	A/B: Insoluble
Viscosity:	A: 2200 mPas/23° C
A = Resin compound B = Peroxide compound	

## 10. Stability and reactivity

### 10.1 Conditions to avoid

see point 7.

Heating > 50° C - exothermic decomposition/polymerisation.

Protect from humidity.

Heating, open flame, ignition sources.

### 10.2 Materials to avoid

see point 7.

Avoid contact with other chemicals.

Rust, bases, amines, acids - violent reaction.

Heavy metal salts.

Avoid contact with strong alkalis.

avoid contact with oxidizing agents.

### 10.3 Hazardous decomposition products

See point 5.3

### 10.4 Additional information

Stabilizers necessary: Yes

Stabilizers available: Yes

Effects of changes in physical state, on safety: Yes

## 11. Toxicological information

### 11.1 Acute toxicity

11.1.1 Ingestion, LD50 rat oral (mg/kg): n.d.a.

11.1.2 Inhalation, LC50 rat inhaling (mg/l/4h): n.d.a.

11.1.3 Skin contact, LD50 rat dermal (mg/kg): n.d.a.

11.1.4 Eye contact: B: Irritant

### 11.2 Chronic effects

11.2.1 Sensitization: B: Yes (skin contact)

11.2.2 Carcinogenicity: n.d.a.

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11.2.4 Reproductive toxicity: n.d.a.

11.2.5 Narcosis: n.d.a.

### 11.3 Further information

Classification according to calculation method.

## 12. Ecological information

- 12.1 Water hazard class: B: 1 A: 2
- 12.2 Self classification: Yes (VwVwS)
- 12.3 Degradability: CE50/30 Min. 35 mg/l  
(degradability of activated sludge  
Dibenzoyl peroxide)  
Styrene: 64% OECD 301B,  
resin: n.d.a.
- 12.4 Behaviour in sewage plants: n.d.a.
- 12.5 Aquatic toxicity: see point 3
- 12.6 Ecological toxicity: see point 3.

## 13. Disposal considerations

### 13.1. for the material/preparation/residue

EC disposal code number: 08 04 04 (hardened adhesives and sealants)

Recommendation:

Pay attention to local and national official regulations.

E.g. dispose at suitable refuse site.

### 13.2 For contaminated packing material

See point 13.1

Pay attention to local and national official regulations.

## 14. Transport information

### General statements

UN-Number: 1866

### Road/Rail-transport (GGVS/ADR/GGVE/RID)

GGVS/ADR: 3/31c) (class/number)

Transport is possible according to note E No. 2301 ADR

### Transport by sea

GGVSee/IMDG-Code: 3.3/3379-1/III (class/code/packing group)

EmS-Number: 3-05

MFAG-Number: 310

Marine Pollutant: Yes

Polyester resin kit (Styrene monomer, inhibited)

### Transport by air

IATA: 3/-/III (class/code/packing group)

Polyester resin kit

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**Additional information:**

**Minimum amount regulations have not been taken into account.**

Danger code and packing code on request.

**15. Regulatory information**

**Classification according to Dangerous Product Regulations incl.**

**EEC Guidelines**

**(67/548/EEC and 88/379/EEC)**

Symbol: B: Xi/O A: --

Description of danger:

Compound B:

Irritant

Oxidizing

Compound A:

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R-phrases:

Compound B:

7 May cause fire.

36 Irritating to eyes.

43 May cause sensitization by skin contact.

Compound A:

10 Flammable.

S-phrases:

Compound B:

(2) Keep out of the reach of children.

3/7 Keep container tightly closed in a cool place.

14 Keep away from dirt, rust, alcalis, acids and accelerators (like heavy metal salts and amines).

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

(46) If swallowed, seek medical advice immediately and show this container or label.

Compound A:

(2) Keep out of the reach of children.

(46) If swallowed, seek medical advice immediately and show this container or label.

Additions:

B: Dibenzoyl peroxide A: --

VbF:

n.a.

Observe restrictions:

Yes

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**16. Other details**

These details refer to the product as it is delivered.

Storage class VCI: 5.2

Revised points: 1 - 16

**Legend:**

n.a. = not applicable / n.c. = not checked / n.d.a. = no data available

VbF = regulations for flammable liquids / MAK = maximum concentration per work place in ml/m<sup>3</sup> = ppm

BAT = biological tolerance for work places / TRbF = technical regulations for flammable liquids

WGK = water hazard class

WGK3 = very hazardous to water    WGK2 = hazardous to water

WGK1 = slightly hazardous to water    WGKO = generally not hazardous to water

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics, but they are based on our present up-to-date knowledge. No responsibility.