

# Safety data sheet

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BASF Safety data sheet  
Date / Revised: 02.03.2010  
Product: **EMACO S40 ZR**

Version: 2.0

(30366738/SDS\_GEN\_SG/EN)

Date of print 13.03.2010

## 1. Substance/preparation and company identification

### EMACO S40 ZR

Use: Product for construction chemicals

Company:

BASF South East Asia Pte Ltd.  
7 Temasek Boulevard,  
#35-01 Suntec Tower One, 038987, SINGAPORE  
Telephone: +65 6 337-0330  
Telefax number: +65 6 334-0330  
E-mail address: tommy.chng@basf.com

Emergency information:

International emergency number:  
Telephone: +49 180 2273-112

## 2. Composition/information on ingredients

### Chemical nature

| additives, zinc, organic solvents

### Hazardous ingredients

| Zinc

Content (W/W):  $\geq 50\%$  -  $\leq 75\%$ 

| CAS Number: 7440-66-6

| EC-Number: 231-175-3

| INDEX-Number: 030-001-01-9

| Hazard symbol(s): N

| R-phrase(s): 50/53

| Methyl ethyl ketone

Content (W/W):  $\geq 10\%$  -  $\leq 15\%$

CAS Number: 78-93-3

EC-Number: 201-159-0

INDEX-Number: 606-002-00-3

Hazard symbol(s): F, Xi

R-phrases: 11, 36, 66, 67

#### | xylene

Content (W/W):  $\geq 5\%$  -  $\leq 10\%$

CAS Number: 1330-20-7

EC-Number: 215-535-7

INDEX-Number: 601-022-00-9

Hazard symbol(s): Xn

R-phrases: 10, 20/21, 38

#### | 1-methoxy-2-propylacetate

Content (W/W):  $\geq 5\%$  -  $\leq 10\%$

CAS Number: 108-65-6

EC-Number: 203-603-9

INDEX-Number: 607-195-00-7

Hazard symbol(s): Xi

R-phrases: 10, 36

The wording of the hazard symbols and R-phrases is specified in chapter 16 if dangerous ingredients are mentioned.

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### 3. Hazard identification

Highly flammable.

Irritating to eyes.

Vapours may cause drowsiness and dizziness.

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### 4. First-Aid Measures

General advice:

| First aid personnel should pay attention to their own safety. Remove contaminated clothing.

If inhaled:

| Remove the affected individual into fresh air and keep the person calm. If breathing difficulties develop, aid in breathing and seek immediate medical attention.

On skin contact:

| Wash thoroughly with soap and water. Under no circumstances should organic solvent be used. If irritation develops, seek medical attention.

On contact with eyes:

| Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:

Rinse mouth and then drink plenty of water. Do not induce vomiting due to aspiration hazard. Do not induce vomiting unless told to by a poison control center or doctor.

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## 5. Fire-Fighting Measures

Suitable extinguishing media:

dry extinguishing media, alcohol-resistant foam

Unsuitable extinguishing media for safety reasons:

water jet

Specific hazards:

carbon dioxide, carbon monoxide, harmful vapours, nitrogen oxides, fumes/smoke, carbon black

Special protective equipment:

Wear a self-contained breathing apparatus.

Further information:

The degree of risk is governed by the burning substance and the fire conditions. Containers may rocket or explode in heat of fire. Keep containers cool by spraying with water if exposed to fire. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Contaminated extinguishing water must be disposed of in accordance with official regulations.

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## 6. Accidental Release Measures

Personal precautions:

Use personal protective clothing. Avoid prolonged inhalation. Avoid contact with the skin, eyes and clothing. Avoid all sources of ignition: heat, sparks, open flame.

Environmental precautions:

Prevent spread over a wide area (e.g. by containment or oil barriers). Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

Methods for cleaning up or taking up:

For large amounts: Pump off product.

For residues: Pick up with inert absorbent material (e.g. sand, earth etc.). Correctly dispose of recovered product immediately.

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## 7. Handling and Storage

Handling

Take precautionary measures against static discharges. Keep away from sources of ignition - No smoking. Provide good room ventilation even at ground level (vapours are heavier than air).

Protection against fire and explosion:

Sources of ignition should be kept well clear. Take precautionary measures against static discharges. Substance/product can form explosive mixture with air. Vapours are heavier than air and may accumulate in low areas and travel a considerable distance up to the source of ignition.

#### Storage

Suitable materials for containers: High density polyethylene (HDPE)

Further information on storage conditions: Keep container tightly closed and in a well-ventilated place. Keep away from heat. Avoid all sources of ignition: heat, sparks, open flame.

## 8. Exposure controls and personal protection

#### Components with workplace control parameters

Methylethylketone, 78-93-3;

TWA value 200 ppm (ACGIHTLV)

STEL value 300 ppm (ACGIHTLV)

TWA value 590 mg/m<sup>3</sup> ; 200 ppm (OEL (SG))

STEL value 885 mg/m<sup>3</sup> ; 300 ppm (OEL (SG))

xylene, 1330-20-7;

TWA value 100 ppm (ACGIHTLV)

STEL value 150 ppm (ACGIHTLV)

TWA value 434 mg/m<sup>3</sup> ; 100 ppm (OEL (SG))

STEL value 651 mg/m<sup>3</sup> ; 150 ppm (OEL (SG))

1-methoxy-2-propylacetate, 108-65-6;

#### Personal protective equipment

Respiratory protection:

Respiratory protection in case of vapour/aerosol release. Suitable respiratory protection for higher concentrations or long-term effect: Gas filter for gases/vapours of organic compounds (boiling point <65 °C, f.e. EN 14387 Type AX)

Hand protection:

Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) and other  
Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection:

Tightly fitting safety goggles (splash goggles) (e.g. EN 166)

Body protection:

Body protection must be chosen based on level of activity and exposure., Antistatic apron

**General safety and hygiene measures:**

Avoid inhalation of dusts/mists/vapours. Avoid contact with the skin, eyes and clothing. Avoid prolonged and/or repeated contact with the skin. Handle in accordance with good building materials hygiene and safety practice. When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. At the end of the shift the skin should be cleaned and skin-care agents applied. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks).

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## 9. Physical and Chemical Properties

Form:	liquid
Odour:	product specific
pH value:	slightly alkaline
Melting point:	not applicable
Flash point:	approx. 7 °C
Flammability:	Highly flammable.
Lower explosion limit:	1.0 %(V)
Upper explosion limit:	11.5 %(V)
Explosion hazard:	not explosive
Fire promoting properties:	not fire-propagating
Density:	approx. 2 g/cm <sup>3</sup> (20 °C)
Solubility in water:	moderately soluble (20 °C)

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## 10. Stability and Reactivity

**Conditions to avoid:**

See MSDS section 7 - Handling and storage.

**Thermal decomposition:** Vapours may form explosive mixture with air. No decomposition if stored and handled as prescribed/indicated.

**Substances to avoid:**

Keep away from highly acidic or alkaline substances as well as oxidants in order to prevent exothermal reactions.

**Hazardous reactions:**

No hazardous reactions if stored and handled as prescribed/indicated.

**Hazardous decomposition products:**

Incomplete combustion results in formation of toxic gases, containing mainly carbon monoxide and carbon dioxide.

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## 11. Toxicological Information

### Acute toxicity

Assessment of acute toxicity:  
Virtually nontoxic after a single ingestion.

### Irritation

Assessment of irritating effects:  
Skin contact causes irritation.

### Other relevant toxicity information

Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.

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## 12. Ecological Information

### Ecotoxicity

Information on: zinc  
Assessment of aquatic toxicity:  
Very toxic (acute effect) to aquatic organisms.  
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Information on: zinc  
Toxicity to fish:  
LC50 (96 h) 0.14 mg/l, *Oncorhynchus mykiss* (static)  
Literature data.  
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Information on: zinc  
Aquatic invertebrates:  
EC50 (48 h) 0.07 mg/l, *Daphnia magna* (static)  
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### Additional information

Other ecotoxicological advice:  
Very toxic (acute effect) to aquatic organisms. The product should not be allowed to reach either ground or open waters. The product has not been tested. The statement has been derived from the properties of the individual components.

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## 13. Disposal Considerations

Observe national and local legal requirements.  
The waste code in accordance with the European waste catalog (EWC) must be specified in cooperation with disposal agency/manufacturer/authorities.  
Residues should be disposed of in the same manner as the substance/product.

Contaminated packaging:

Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

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## 14. Transport Information

### Domestic transport:

Hazard class: 3  
Packing group: II  
ID number: UN 1263  
Hazard label: 3  
Proper shipping name: PAINT (contains METHYLETHYLKETONE)

### Sea transport

#### IMDG

Hazard class: 3  
Packing group: II  
ID number: UN 1263  
Hazard label: 3  
Marine pollutant: NO  
Proper shipping name: PAINT (contains METHYLETHYLKETONE)

### Air transport

#### IATA/ICAO

Hazard class: 3  
Packing group: II  
ID number: UN 1263  
Hazard label: 3  
Proper shipping name: PAINT (contains METHYLETHYLKETONE)

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## 15. Regulatory Information

### Regulations of the European union (Labelling)

#### Directive 1999/45/EC ('Preparation Directive'):

#### Hazard symbol(s)

N Dangerous for the environment.  
Xi Irritant.  
F Highly flammable.

#### R-phrases(s)

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R36	Irritating to eyes.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R11	Highly flammable.
R67	Vapours may cause drowsiness and dizziness.
S-phrases(s)	
S2	Keep out of the reach of children.
S25	Avoid contact with eyes.
S61	Avoid release to the environment. Refer to special instructions/safety data sheets.

### Other regulations

## 16. Other Information

Full text of hazard symbols and R-phrases if mentioned as hazardous components in chapter 2:

N	Dangerous for the environment.
F	Highly flammable.
Xi	Irritant.
Xn	Harmful.
50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
11	Highly flammable.
36	Irritating to eyes.
66	Repeated exposure may cause skin dryness or cracking.
67	Vapours may cause drowsiness and dizziness.
10	Flammable.
20/21	Harmful by inhalation and in contact with skin.
38	Irritating to skin.

Vertical lines in the left hand margin indicate an amendment from the previous version.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.