

# Material Safety Data Sheet

according to 91/155/EEC



**Product name :** Biladur EP C90  
**Revision :** 01.02.2007      **Version :** 2.1.0  
**Print date :** 31.05.2007

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## 01. Identification of substance, preparation and company

### Product name:

Biladur EP C90

### Manufacturer/Supplier

MONOPOL AG

### Street/P.O.Box

Oberrohrdorferstrasse 51

### Country code/Postal code/Town/City

CH-5442 Fislisbach

### Telephone / Telefax

+41 56 484 77 77 / +41 56 484 77 99

### Emergency information

+41 44 251 51 51

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## 02. Composition/information on ingredients

### Chemical characterization

Paint material, solventborne

### Hazardous components

SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM. ; EC-No. : 265-199-0 ; CAS-No. : 64742-95-6

Percentage : 5 - 10 %

Classification : Xn ; R 65

1-METHOXY-2-PROPANOL ; EC-No. : 203-539-1 ; CAS-No. : 107-98-2

Percentage : 5 - 10 %

Classification : R 10

ISO-BUTANOL ; EC-No. : 201-148-0 ; CAS-No. : 78-83-1

Percentage : 5 - 10 %

Classification : R 10 Xi ; R 41 Xi ; R 37/38 R 67

XYLENE ; EC-No. : 215-535-7 ; CAS-No. : 1330-20-7

Percentage : 1 - 5 %

Classification : R 10 Xn ; R 20/21 Xi ; R 38

ETHYLBENZENE ; EC-No. : 202-849-4 ; CAS-No. : 100-41-4

Percentage : 1 - 5 %

Classification : F ; R 11 Xn ; R 20

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## 03. Hazards identification

### Hazard designation

Flammable · Irritating to eyes

Classification : R 10 · Xi ; R 36

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## 04. First-aid measures

### General

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

### After inhalation

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Take the casualty into the fresh air and keep warm. Keep at rest. Irregular breathing/no breathing: artificial respiration.  
Unconsciousness: lateral position - call a physician.

## **After skin contact**

Immediately remove all contaminated clothing. Wash away with soap and water and rinse. Do NOT use solvents or thinners.

## **After eye contact**

Remove contact lenses, keep eyelids open. Flush with plenty of water (10 - 15 min.). Call a physician.

## **After ingestion**

Contact a doctor immediately. Keep at rest. Do not induce vomiting.

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## **05. Fire-fighting measures**

### **Suitable extinguishing media**

Alcohol resistant foam, CO<sub>2</sub>, powders, water spray.

### **Unsuitable extinguishing media**

Waterjet.

### **Special risk posed by the substance or by the actual preparation, its combustion products or gases discharged**

Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

### **Special protective equipment**

Appropriate breathing apparatus may be required.

### **Additional information**

Cool endangered containers with water in case of fire. Do not allow the quenching water into the sewage system.

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## **06. Accidental release measures**

### **Personal precautions**

Remove ignition sources. Provide for sufficient ventilation. Do not inhale the vapour. Refer to protective measures listed in sections 7 and 8.

### **Environmental precautions**

Do not empty into drains. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.

### **Methods for cleaning up/collecting**

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Clean preferably with a detergent; avoid use of solvents.

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## **07. Handling and storage**

### **Information for safe handling**

Prevent the creation of inflammable or explosive concentrations of vapour in air and avoid vapour concentrations higher than the OEL (=Occupational Exposure Limit). Additionally, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Preparation may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear antistatic footwear and clothing. No sparking tools should be used. Avoid contact with skin and eyes. Do not inhale the vapour. Do not eat or drink during work - no smoking. Comply with the health and safety at work laws. For personal protection see Section 8. Gas mask in case of spray processing.

### **Information about protection against explosions and fires**

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

### **Requirements to be met by storerooms and containers**

Keep container tightly closed. Never use pressure to empty: container is not a pressure vessel. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical equipment should be protected to the appropriate standard. Floors should be of the conducting type.

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## Information about separation of incompatible products

Keep away from oxidizing agents, from strongly alkaline and strongly acid materials.

## Further information about storage conditions

Always keep in containers of same material as the original one. See also instructions on the label. Avoid heating and direct sunlight. Keep away from ignition sources - No smoking. Keep containers dry and cool. Keep containers in a well-ventilated place. Comply with the health and safety at work laws.

**Storage class (VCI) :** 3A

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## 08. Exposure controls and personal protection

### Additional information about engineering measures

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (=Occupational Exposure Limit), suitable respiratory protection must be worn.

### Components with critical values that require monitoring at the workplace (exposure limits)

1-METHOXY-2-PROPANOL ; CAS-No. : 107-98-2

Specification : TRGS 900 - maximum limit in the atmosphere at the workplace ( D )

Value : 100 ppm / 370 mg/m<sup>3</sup>

Category : = 1 =

Remarks : Y

Version date : 01.05.2004

Specification : Short term exposure limit ( EC )

Value : 150 ppm / 568 mg/m<sup>3</sup>

Remarks : H

Version date : 08.06.2000

Specification : threshold limit value ( EC )

Value : 100 ppm / 375 mg/m<sup>3</sup>

Remarks : H

Version date : 08.06.2000

ISO-BUTANOL ; CAS-No. : 78-83-1

Specification : TRGS 900 - maximum limit in the atmosphere at the workplace ( D )

Value : 100 ppm / 310 mg/m<sup>3</sup>

Category : = 1 =

Remarks : Y

Version date : 01.05.2004

XYLENE ; CAS-No. : 1330-20-7

Specification : TRGS 900 - maximum limit in the atmosphere at the workplace ( D )

Value : 100 ppm / 440 mg/m<sup>3</sup>

Category : 4

Remarks : H

Version date : 01.05.2004

Specification : TRGS 903 - biological workplace tolerance values ( D )

Parameter : Xylene / whole blood / end of exposure or shift

Value : 1.5 mg/l

Version date : 31.03.2004

Specification : TRGS 903 - biological workplace tolerance values ( D )

Parameter : Methylhippuric acid / urine / end of exposure or shift

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Value : 2 g/l  
Version date : 31.03.2004  
Specification : Short term exposure limit ( EC )  
Value : 100 ppm / 442 mg/m<sup>3</sup>  
Remarks : H  
Version date : 08.06.2000  
Specification : threshold limit value ( EC )  
Value : 50 ppm / 221 mg/m<sup>3</sup>  
Remarks : H  
Version date : 08.06.2000

ETHYLBENZENE ; CAS-No. : 100-41-4

Specification : TRGS 900 - maximum limit in the atmosphere at the workplace ( D )  
Value : 100 ppm / 440 mg/m<sup>3</sup>  
Category : = 1 =  
Remarks : H  
Version date : 01.05.2004

Specification : TRGS 903 - biological workplace tolerance values ( D )  
Parameter : Ethylbenzene/ whole blood / end of exposure or shift  
Value : 1 mg/l  
Version date : 31.03.2004

Specification : TRGS 903 - biological workplace tolerance values ( D )  
Parameter : Mandelic acid + Phenylglyoxyl acid / urine / end of exposure or shift  
Value : 800 mg/g Kr  
Version date : 31.03.2004

Specification : Short term exposure limit ( EC )  
Value : 200 ppm / 884 mg/m<sup>3</sup>  
Remarks : H  
Version date : 08.06.2000

Specification : threshold limit value ( EC )  
Value : 100 ppm / 442 mg/m<sup>3</sup>  
Remarks : H  
Version date : 08.06.2000

## Personal protective equipment

### Respiratory protection

If workplace limits are exceeded, a gas mask approved for this purpose must be worn.

### Hand protection

Solvent-resistant protective gloves must be worn. For prolonged or repeated handling, use barrier creams to protect the exposed areas of the skin.

### Eye protection

Use safety glasses.

### Body protection

Personal should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber. All parts of the body should be washed after contact. After skin contact wash thoroughly with soap and water or use recognised skin cleanser. Do Not use solvents or thinners.

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## 09. Physical and chemical properties

### Image

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**Form :** Liquid.  
**Colour :** Coloured.  
**Odour :** Like solvent.

## Relevant safety data

<b>Boiling point / range :</b>	( 1013 hPa )	not applicable	°C
<b>Flash point :</b>		25	°C
<b>Vapour pressure :</b>	( 50 °C )	not applicable	hPa
<b>Density :</b>	( 20 °C )	1.7	g/cm <sup>3</sup>
<b>Solvent-separation test :</b>	( 20 °C )	<	3 %
<b>Flow time :</b>	( 20 °C )	>	100 s      DIN-cup 4 mm

## 10. Stability and reactivity

### Conditions to avoid

Stable under recommended storage and handling conditions(See section 7).

### Materials to avoid

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

### Hazardous decomposition products

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

## 11. Toxicological information

### Experience on practice

Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage.

### Additional toxicological information

There no data available on the preparation itself. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly. See Sections 2 and 15 for details.

## 12. Ecological information

### Additional ecological information

#### General ecological information

There are no data available on the product itself. Do not empty into waters or drains.

## 13. Disposal considerations

Contaminated packaging must be emptied of all residues and, following appropriate cleaning, may be sent to a recycling plant. Uncleaned packaging must be disposed of in the same manner as the medium.

## 14. Transport information

### Land transport ADR/RID (2003)

#### Classification

<b>Class :</b>	3	<b>Kemlercode :</b>	30
<b>Substance number :</b>	1263	<b>Classification-Code :</b>	F1

ADR : - (be left out <= 450 l)

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## Proper shipping name

PAINT

## Packaging

**Packaging group :** III  
**Label :** 3

## Maritime transport IMDG/GGVSea

### Classification

**IMDG-Code :** 3      **EmS number :** F-E / S-E  
**UN number :** 1263      **Marine Poll. :** -

## Proper shipping name

PAINT

## Packaging

**Packaging group :** III  
**Label :** 3

## Air transport ICAO-TI and IATA-DGR

### Classification

**Class :** 3  
**UN number :** 1263

## Proper shipping name

PAINT

## Packaging

**Packaging group :** III  
**Label :** 3

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## 15. Regulatory information

### Classification according to EEC directives

#### Danger symbol and danger designation



Xi ; Irritant

#### R-phrases

10      Flammable  
36      Irritating to eyes

#### S-phrases

35      This material and its container must be disposed of in a safe way  
51      Use only in well-ventilated areas.  
26      In case of contact with eyes, rinse immediately with plenty of water and seek medical advice  
25      Avoid contact with eyes  
17      Keep away from combustible material

### National regulatory information

#### Regulation on inflammable liquids (VbF)

VbF-Class : Not dangerous according to VbF

#### Water pollution classification

Class : 2 according VwVwS

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## 16. Other information

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## Further information

The details in this material safety data sheet satisfy national and EU legislation. We have no knowledge or control over the user's working conditions however. The product may not be used for any purpose other than that specified in chapter 1 unless written consent has been obtained. The user is responsible for the observance of all required statutory provisions.

### Relevant changes

14. Classification (ADR 2003) · 14. Maritime transport IMDG/GGVSea

### R-Phrases of components

10	Flammable
11	Highly flammable
20	Harmful by inhalation
20/21	Harmful by inhalation and in contact with skin
37/38	Irritating to respiratory system and skin
38	Irritating to skin
41	Risk of serious damage to eyes
65	Harmful: may cause lung damage if swallowed
67	Vapours may cause drowsiness and dizziness

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These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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