

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date: 12.05.2017

Version No: 1

Revision: 12.05.2017

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

- **1.1 Product identifier**
- **Trade name:** LEUBIT® Primer Plus (10 Liter Eimer)
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the preparation:** Adhesives
- **Uses advised against:** No further relevant information available.
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
 BVH  
 BITUMEN Vertrieb und Handel GmbH  
 Aue-Park-Allee 7  
 06237 Leuna  
 Tel.: +49 (0)346 38 3603-0  
 Fax: +49 (0)346 38 3603-29  
 Email: info@bvh-bitumen.de
- **1.4 Emergency telephone number:** Tel.: +49 (0)361 730730, 24h (Erfurt)

## SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**

Flam. Liq. 2	H225	Highly flammable liquid and vapour.
Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2	H319	Causes serious eye irritation.
Repr. 2	H361	Suspected of damaging fertility or the unborn child.
STOT SE 3	H336	May cause drowsiness or dizziness.
STOT RE 2	H373	May cause damage to the central nervous system through prolonged or repeated exposure. Route of exposure: Inhalation.
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.
Aquatic Chronic 3	H412	Harmful to aquatic life with long lasting effects.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
 The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS02 GHS07 GHS08

- **Signal word** Danger
- **Hazard-determining components of labelling:**  
toluene
- **Hazard statements**  
 H225 Highly flammable liquid and vapour.  
 H315 Causes skin irritation.  
 H319 Causes serious eye irritation.  
 H361 Suspected of damaging fertility or the unborn child.  
 H336 May cause drowsiness or dizziness.  
 H373 May cause damage to the central nervous system through prolonged or repeated exposure. Route of exposure: Inhalation.

(Contd. on page 2)

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## according to 1907/2006/EC, Article 31

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Revision: 12.05.2017

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(Contd. of page 1)

H304 May be fatal if swallowed and enters airways.  
H412 Harmful to aquatic life with long lasting effects.

### · Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P241 Use explosion-proof electrical/ventilating/lighting equipment.  
P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

### · 2.3 Other hazards

### · Results of PBT and vPvB assessment

· **PBT:** Not determined.  
· **vPvB:** Not determined.

## SECTION 3: Composition/information on ingredients

### · 3.2 Chemical characterisation: Mixtures

#### · Dangerous components:

CAS: 108-88-3	toluene	35-45%
EINECS: 203-625-9	Flam. Liq. 2, H225; Repr. 2, H361d; STOT RE 2, H373;	
Index number: 601-021-00-3	Asp. Tox. 1, H304; Skin Irrit. 2, H315; Eye Irrit. 2, H319;	
Reg.nr.: 01-2119471310-51-XXXX	STOT SE 3, H336; Aquatic Chronic 3, H412	

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

## SECTION 4: First aid measures

### · 4.1 Description of first aid measures

#### · General information:

Take affected persons out of danger area and lay down.  
Immediately remove any clothing soiled by the product.  
In case of irregular breathing or respiratory arrest provide artificial respiration.

· **After inhalation:** Supply fresh air.

#### · After skin contact:

Immediately rinse with water.  
If skin irritation continues, consult a doctor.

#### · After eye contact:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Seek medical treatment.

#### · After swallowing:

Rinse out mouth and then drink plenty of water.  
Do NOT induce vomiting.  
Call for a doctor immediately.

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

No further relevant information available.

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

No further relevant information available.

(Contd. on page 3)

## Safety data sheet

according to 1907/2006/EC, Article 31

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(Contd. of page 2)

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.  
CO<sub>2</sub>, sand, extinguishing powder. Do not use water.  
Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture**  
Formation of toxic gases is possible during heating or in case of fire.  
In case of fire, the following can be released:  
Carbon monoxide  
Carbon dioxide
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.
- **Additional information**  
Cool endangered receptacles with water spray.  
Collect contaminated fire fighting water separately. It must not enter the sewage system.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Ensure adequate ventilation.  
Wear protective equipment. Keep unprotected persons away.  
Keep away from ignition sources.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Ensure adequate ventilation.  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Do not flush with water or aqueous cleansing agents  
Dispose of the material collected according to regulations.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- **Information about fire and explosion protection:** Keep ignition sources away - Do not smoke.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Store in a cool location.  
Store only in the original receptacle.
- **Information about storage in one common storage facility:** Store away from oxidising agents.
- **Further information about storage conditions:**  
Keep container tightly sealed.  
Store in cool, dry conditions in well sealed receptacles.
- **7.3 Specific end use(s)** No further relevant information available.

(Contd. on page 4)

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date: 12.05.2017

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Trade name: LEUBIT® Primer Plus (10 Liter Eimer)

(Contd. of page 3)

### SECTION 8: Exposure controls/personal protection

#### · 8.1 Control parameters

##### · Ingredients with limit values that require monitoring at the workplace:

###### CAS: 108-88-3 toluene

WEL (Great Britain)	Short-term value: 384 mg/m <sup>3</sup> , 100 ppm
	Long-term value: 191 mg/m <sup>3</sup> , 50 ppm Sk

##### · DNELs

###### CAS: 108-88-3 toluene

Oral	DNEL(long/systemic)	8.13 mg/kg bw/day (Consumer)
Dermal	DNEL(long/systemic)	226 mg/kg bw/day (Consumer)
		384 mg/kg bw/day (Workers (Industrial/Professional))
Inhalative	DNEL(long/local)	56.5 mg/m <sup>3</sup> (Consumer)
		192 mg/m <sup>3</sup> (Workers (Industrial/Professional))
	DNEL(long/systemic)	226 mg/m <sup>3</sup> (Consumer)
		192 mg/m <sup>3</sup> (Workers (Industrial/Professional))
	DNEL(short/local)	226 mg/m <sup>3</sup> (Consumer)
DNEL(short/systemic)	384 mg/m <sup>3</sup> (Workers (Industrial/Professional))	

##### · PNECs

###### CAS: 108-88-3 toluene

PNEC(aqua)	0.68 mg/L (freshwater)
	0.68 mg/L (marine water)
PNEC(STP)	13.61 mg/L (sewage treatment plant)
PNEC(sediment)	16.39 mg/kg sedi. dw (freshwater)
	16.39 mg/kg sedi. dw (marine water)
PNEC(soil)	2.89 mg/kg soil dw (soil)

#### · 8.2 Exposure controls

##### · Personal protective equipment:

##### · General protective and hygienic measures:

Do not eat, drink, smoke or sniff while working.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Avoid contact with the eyes and skin.

The usual precautionary measures are to be adhered to when handling chemicals.

##### · Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

##### · Protection of hands:



Protective gloves

Only use chemical-protective gloves with CE-labelling of category III.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

(Contd. on page 5)

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date: 12.05.2017

Version No: 1

Revision: 12.05.2017

Trade name: LEUBIT® Primer Plus (10 Liter Eimer)

(Contd. of page 4)

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles

- **Body protection:** Protective work clothing

### SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

<b>Form:</b>	Fluid
<b>Colour:</b>	Black
<b>Odour:</b>	Petrol-like
<b>Odour threshold:</b>	Not determined.

- **pH-value:** Not determined.

- **Change in condition**

<b>Melting point/freezing point:</b>	Not determined.
<b>Initial boiling point and boiling range:</b>	110 °C

- **Flash point:** >4.5 °C

- **Flammability (solid, gas):** Not applicable.

- **Ignition temperature:** Not determined.

- **Decomposition temperature:** Not determined.

- **Auto-ignition temperature:** Product is not selfigniting.

- **Explosive properties:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

- **Explosion limits:**

<b>Lower:</b>	1.2 Vol %
<b>Upper:</b>	7.0 Vol %

- **Oxidising properties**

No

- **Vapour pressure at 20 °C:** 30.9 hPa

- **Density at 15 °C:** 0.95 g/cm<sup>3</sup>

- **Relative density** Not determined.

- **Vapour density** Not determined.

- **Evaporation rate** Not determined.

- **Solubility in / Miscibility with water:**

Insoluble.

- **Partition coefficient: n-octanol/water:** Not determined.

108-88-3 | toluene | 2,73 logPow @ 20 °C

(Contd. on page 6)

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date: 12.05.2017

Version No: 1

Revision: 12.05.2017

Trade name: LEUBIT® Primer Plus (10 Liter Eimer)

(Contd. of page 5)

· <b>Viscosity:</b> <b>Dynamic:</b>	Not determined.
· <b>9.2 Other information</b>	No further relevant information available.

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability** No decomposition if used and stored according to specifications.
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** Keep away from heat and direct sunlight.
- **10.5 Incompatible materials:** Strong oxidizing agents
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

#### · LD/LC50 values relevant for classification:

##### CAS: 108-88-3 toluene

Oral	LD50	5580 mg/kg (Rat) (EU Method B.1)
Dermal	LD50	> 5000 mg/kg (Rabbit)
Inhalative	LC50 (4h)	> 20 mg/L (Rat) (OECD Guideline 403, inhalation:vapour)

- **Primary irritant effect:**
- **Skin corrosion/irritation**  
Causes skin irritation.
- **Serious eye damage/irritation**  
Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity**  
Suspected of damaging fertility or the unborn child.
- **STOT-single exposure**  
May cause drowsiness or dizziness.
- **STOT-repeated exposure**  
May cause damage to the central nervous system through prolonged or repeated exposure. Route of exposure: Inhalation.
- **Aspiration hazard**  
May be fatal if swallowed and enters airways.

### SECTION 12: Ecological information

#### · 12.1 Toxicity

##### · Aquatic toxicity:

##### CAS: 108-88-3 toluene

LC50 (96h) (dynamic)	5.5 mg/L (Fish) (Oncorhynchus kisutch)
EC50 (48h)	3.78 mg/L (Daphnia) (US EPA 600/4-91-003, Ceriodaphnia dubia)
EC50 (24h) (static)	84 mg/L (Bacteria) (Nitrosomonas sp.)

(Contd. on page 7)

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date: 12.05.2017

Version No: 1

Revision: 12.05.2017

Trade name: LEUBIT® Primer Plus (10 Liter Eimer)

(Contd. of page 6)


EC50 (3h) (static)	134 mg/L (Algae) (Chlorella vulgaris and Chlamydomonas angulosa)
NOEC	0.74 mg/L (Daphnia) (7d, Ceriodaphnia dubia) 1.39 mg/L (Fish) (40d, Oncorhynchus kisutch)
<b>· 12.2 Persistence and degradability</b>	
108-88-3 toluene	86% @ 20d
<b>· 12.3 Bioaccumulative potential</b>	
<b>CAS: 108-88-3 toluene</b>	
	2.73 (logPow)

- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation:** Must be specially treated adhering to official regulations.
- **European waste catalogue** N 05 01 17, N 15 02 02
- **Uncleaned packaging**
- **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

· <b>14.1 UN-Number</b>	UN1133
· <b>ADR/RID/ADN, IMDG, IATA</b>	
· <b>14.2 UN proper shipping name</b>	
· <b>ADR/RID/ADN</b>	1133 ADHESIVES solution
· <b>IMDG, IATA</b>	ADHESIVES solution
· <b>14.3 Transport hazard class(es)</b>	
· <b>ADR/RID/ADN, IMDG, IATA</b>	
	
· <b>Class</b>	3 Flammable liquids.
· <b>Label</b>	3
· <b>14.4 Packing group</b>	
· <b>ADR/RID/ADN, IMDG, IATA</b>	II
· <b>14.5 Environmental hazards:</b>	Not applicable.
· <b>14.6 Special precautions for user</b>	Warning: Flammable liquids.
· <b>Danger code (Kemler):</b>	33
· <b>EMS Number:</b>	F-E,S-D
· <b>Stowage Category</b>	B
· <b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:</b>	Not applicable.

(Contd. on page 8)

— GB —

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Printing date: 12.05.2017

Version No: 1

Revision: 12.05.2017

Trade name: LEUBIT® Primer Plus (10 Liter Eimer)

(Contd. of page 7)

· <b>Transport/Additional information:</b>	
· <b>ADR/RID/ADN</b>	
· <b>Tunnel restriction code</b>	D/E
· <b>UN "Model Regulation":</b>	UN 1133 ADHESIVES SOLUTION, 3, II

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category** P5c FLAMMABLE LIQUIDS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5,000 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50,000 t
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 48
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**
  - H225 Highly flammable liquid and vapour.
  - H304 May be fatal if swallowed and enters airways.
  - H315 Causes skin irritation.
  - H319 Causes serious eye irritation.
  - H336 May cause drowsiness or dizziness.
  - H361d Suspected of damaging the unborn child.
  - H373 May cause damage to the central nervous system through prolonged or repeated exposure. Route of exposure: Inhalation.
  - H412 Harmful to aquatic life with long lasting effects.
- **Department issuing SDS:**
  - BVH
  - BITUMEN Vertrieb und Handel GmbH
  - Aue-Park-Allee 7
  - D-06237 Leuna
- **Abbreviations and acronyms:**
  - REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
  - MARPOL: (from Marine Pollutant) International Convention for the Prevention of Marine Pollution from Ships
  - IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
  - UN: United Nations (also UNO: United Nations Organization)
  - NOEC: No Observed Effect Concentration
  - OECD: Organisation for Economic Co-operation and Development
  - ASTM: American Society for Testing and Materials
  - WAF: Water Accommodated Fraction
  - ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  - IMDG: International Maritime Code for Dangerous Goods
  - IATA: International Air Transport Association
  - GHS: Globally Harmonised System of Classification and Labelling of Chemicals
  - EINECS: European Inventory of Existing Commercial Chemical Substances
  - ELINCS: European List of Notified Chemical Substances
  - CAS: Chemical Abstracts Service (division of the American Chemical Society)
  - DNEL: Derived No-Effect Level (REACH)
  - PNEC: Predicted No-Effect Concentration (REACH)
  - LC50: Lethal concentration, 50 percent
  - LD50: Lethal dose, 50 percent

(Contd. on page 9)



**Safety data sheet**  
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**Trade name: LEUBIT® Primer Plus (10 Liter Eimer)**

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(Contd. of page 8)

PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Flam. Liq. 2: Flammable liquids – Category 2  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
Repr. 2: Reproductive toxicity – Category 2  
Repr. 2: Reproductive toxicity – Category 2  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2  
Asp. Tox. 1: Aspiration hazard – Category 1  
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

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