

# Material Safety Data Sheet

according to Regulation (EC) 1907/2006



**Product name :** Einbrenngrundierung 5601, Weiß (5601.-.9102)  
**Revision :** 29.07.2011  
**Print date :** 29.07.2011

**Version (Revision) :** 5.0.0 (4.0.0)

## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Einbrenngrundierung 5601, Weiß (5601.-.9102)

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

Solvent-based coating. Intended purpose see technical data sheet.

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

**Manufacturer/Supplier :** Brillux GmbH & Co. KG, Industrielack  
www.brillux-industrielack.de  
**Street/P.O.Box :** Otto-Hahn-Straße 14  
**Country code/Postal code/Town/City :** D-59423 Unna  
**Telephone :** +49 (0)2303 8805-0  
**Telefax :** +49 (0)2303 8805-119  
**Contact :** sdb@brillux-industrielack.de

### 1.4 Emergency telephone number

Outside the business hours:  
(Giftnotruf Berlin, consultation in the german and english language)  
Telephone: +49 (0)30 30686 790.

## 2. Hazards identification

### 2.1 Classification of the substance or mixture

#### Directive 67/548/EEC or 1999/45/EC

Flammable. · Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. · Harmful by inhalation and in contact with skin. · Irritating to skin.

R 10 · N ; R 51/53 · Xn ; R 20/21 · Xi ; R 38

#### Regulation (EC) No 1272/2008 (GHS)

Flammable liquid and vapour. · Harmful in contact with skin. · Causes skin irritation. · Toxic to aquatic life with long lasting effects.  
Flam. Liq. 3 ; H226 · Acute Tox. 4 ; H312 · Aquatic Chronic 2 ; H411 · Acute Tox. 4 ; H332 · Skin Irrit. 2 ; H315

### 2.2 Label elements

#### Directive 67/548/EEC or 1999/45/EC

##### Danger symbol and danger designation



Xn ; Harmful



N ; Dangerous for the environment

##### Hazard-determining components of labelling

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

##### R-phrases

10	Flammable.
51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
20/21	Harmful by inhalation and in contact with skin.
38	Irritating to skin.

##### S-phrases

29/35	Do not empty into drains; dispose of this material and its container in a safe way.
61	Avoid release to the environment. Refer to special instructions/Safety data sheets.

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51 Use only in well-ventilated areas.  
36/37 Wear suitable protective clothing and gloves.  
23.1 Do not breathe spray.

### Regulation (EC) No 1272/2008 (GHS)

#### Hazard pictograms



Flame (GHS02) · Environment (GHS09) · Exclamation mark (GHS07)

#### Signal word

Warning

#### Hazard-determining components of labelling

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

#### Hazard statements

H226 Flammable liquid and vapour.  
H312 Harmful in contact with skin.  
H332 Harmful if inhaled.  
H315 Causes skin irritation.  
H411 Toxic to aquatic life with long lasting effects.

#### Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P233 Keep container tightly closed.  
P312 Call a POISON CENTER or doctor/physician if you feel unwell.  
P332/313 If skin irritation occurs: Get medical advice/attention.  
P403/235 Store in a well-ventilated place. Keep cool.  
P501 Dispose of contents/container to ...

### 2.3 Other hazards

None.

### 2.4 Additional information

This product is dangerous concerning EC-guideline 1999/45/EC.

## 3. Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous components

XYLENE ; Registration number (EC) : 01-2119486136-34 ; EC-No. : 215-535-7 ; CAS-No. : 1330-20-7

Percentage : 20 - 25 %  
Classification 67/548/EEC : R10 Xn ; R20/21 Xn ; R65 Xi ; R38  
Classification 1907/2006 (GHS) : Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 Acute Tox. 4 ; H312 Acute Tox. 4 ; H332 Skin Irrit. 2 ; H315

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

Percentage : 1 - 5 %  
Classification 67/548/EEC : F ; R11 Xn ; R20  
Classification 1907/2006 (GHS) : Flam. Liq. 2 ; H225 Acute Tox. 4 ; H332

SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM.

Benzene < 0,1% (Note P, Annex I Directive 67/548/EEC) ; Registration number (EC) : 01-2119455851-35 ; EC-No. : 265-199-0 ; CAS-No. : 64742-95-6

Percentage : 2,5 - 5 %  
Classification 67/548/EEC : R10 N ; R51/53 Xn ; R65 Xi ; R37 R67 R66  
Classification 1907/2006 (GHS) : Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 STOT SE 3 ; H335 STOT SE 3 ; H336 Aquatic Chronic 2 ; H411

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TRIZINC BIS(ORTHOPHOSPHATE) ; Registration number (EC) : 01-2119485044-40 ; EC-No. : 231-944-3; CAS-No. : 7779-90-0

Percentage : 2,5 - 5 %  
Classification 67/548/EEC : N ; R50/53  
Classification 1907/2006 (GHS) : Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

BUTYL CELLOSOLVE ; EC-No. : 203-905-0; CAS-No. : 111-76-2

Percentage : 1 - 5 %  
Classification 67/548/EEC : Xn ; R20/21/22 Xi ; R36/38  
Classification 1907/2006 (GHS) : Acute Tox. 4 ; H302 Acute Tox. 4 ; H312 Acute Tox. 4 ; H332 Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319

4-HYDROXY-4-METHYLPENTAN-2-ONE ; EC-No. : 204-626-7; CAS-No. : 123-42-2

Percentage : 1 - 5 %  
Classification 67/548/EEC : Xi ; R36  
Classification 1907/2006 (GHS) : Eye Irrit. 2 ; H319

For the wording of the listed risk phrases refer to section 16.

## 4. First-aid measures

### 4.1 Description of first aid measures

#### General

Immediately remove all contaminated clothing.  
In all cases of doubt, or when symptoms persist, seek medical attention.  
Unconsciousness: lateral position - call a physician.

#### After inhalation

Take the casualty into the fresh air and keep warm. Irregular breathing/no breathing: artificial respiration. Call a doctor in case.

#### After skin contact

Wash away with soap and water and rinse. Do NOT use solvents or thinners.

#### After eye contact

Flush with plenty of water (10 - 15 min.). Call a doctor in case.

#### After ingestion

Call a doctor and tell him the exactly substance. Keep at rest. Do not induce vomiting.

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

None known.

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

None.

## 5. Fire-fighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

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

#### Unsuitable extinguishing media

Waterjet.

### 5.2 Special hazards arising from the substance or mixture

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

### 5.3 Advice for firefighters

Appropriate breathing apparatus may be required.

### 5.4 Additional information

Cool endangered containers with water in case of fire.

## 6. Accidental release measures

# Material Safety Data Sheet

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### 6.1 Personal precautions, protective equipment and emergency procedures

Remove ignition sources. Provide for sufficient ventilation. Refer to protective measures listed in sections 7 and 8.

### 6.2 Environmental precautions

Prevent seepage into ground, water and sewage system. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.

### 6.3 Methods and material for containment and cleaning up

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.

### 6.4 Reference to other sections

Note sections 7, 8 and 13.

## 7. Handling and storage

### 7.1 Precautions for safe handling

#### 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. Comply with the health and safety at work laws.

Only use in locations with adequate suction ventilation.

#### Information about protection against explosions and fires

Keep away from ignition sources - No smoking.

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Take precautionary measures against static discharges. Operators should wear antistatic footwear and clothing. No sparking tools should be used.

### 7.2 Conditions for safe storage, including any incompatibilities

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

Electrical equipment should be protected to the appropriate standard. Floors should be of the conducting type. Make sure that ventilation is adequate. 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.

#### Information about separation of incompatible products

Keep away from oxidizing agents, from strongly alkaline and strongly acid materials. Store the foodstuffs separately.

#### 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 containers dry and cool.

**Storage class (VCI) :** 3

### 7.3 Specific end use(s)

Solvent-based coating. Intended purpose see technical data sheet.

## 8. Exposure controls/personal protection

### 8.1 Control parameters

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 : 2(II)

Remarks : H

Version date : 02.07.2009

Specification : TRGS 903 - biological maximum limits ( D )

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

Value : 1,5 mg/l

Version date : 31.03.2004

# Material Safety Data Sheet

according to Regulation (EC) 1907/2006



**Product name :** Einbrenngrundierung 5601, Weiß (5601.-.9102)  
**Revision :** 29.07.2011  
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**Version (Revision) :** 5.0.0 (4.0.0)

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Specification : TRGS 903 - biological maximum limits ( D )  
Parameter : Methylhippuric acid / urine / end of exposure or shift  
Value : 2 g/l  
Version date : 31.03.2004

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

Specification : Limit value (8 hours) ( 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 : 2(II)  
Remarks : H  
Version date : 02.07.2009

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

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

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

Specification : Limit value (8 hours) ( EC )  
Value : 100 ppm / 442 mg/m<sup>3</sup>  
Remarks : H  
Version date : 08.06.2000

BUTYL CELLOSOLVE ; CAS-No. : 111-76-2

Specification : TRGS 900 - maximum limit in the atmosphere at the workplace ( D )  
Value : 20 ppm / 98 mg/m<sup>3</sup>  
Category : 4(II)  
Remarks : H,Y  
Version date : 02.07.2009

Specification : TRGS 903 - biological maximum limits ( D )  
Parameter : Butoxy acetic acid / urine / in cases of long term exposure after several shifts  
Value : 100 mg/l  
Version date : 31.03.2004

Specification : Limit value (Short term) ( EC )  
Value : 50 ppm / 246 mg/m<sup>3</sup>  
Remarks : H  
Version date : 08.06.2000

Specification : Limit value (8 hours) ( EC )  
Value : 20 ppm / 98 mg/m<sup>3</sup>  
Remarks : H  
Version date : 08.06.2000

4-HYDROXY-4-METHYLPENTAN-2-ONE ; CAS-No. : 123-42-2

# Material Safety Data Sheet

## according to Regulation (EC) 1907/2006



**Product name :** Einbrenngrundierung 5601, Weiß (5601.-.9102)  
**Revision :** 29.07.2011  
**Print date :** 29.07.2011

**Version (Revision) :** 5.0.0 (4.0.0)

**Specification :** TRGS 900 - maximum limit in the atmosphere at the workplace ( D )  
**Value :** 20 ppm / 96 mg/m<sup>3</sup>  
**Category :** 2(I)  
**Remarks :** H  
**Version date :** 02.07.2009

### 8.2 Exposure controls

#### Personal protective equipment

##### Respiratory protection

Breathing protection equipment required in inadequately ventilated places and during spraying. Combination filter mask A2 - P2 for short-term work. Note BGR 190. Note TRGS 402.

##### Hand protection

Use safety gloves according to EN 374. Suitable glove materials: fluoro-rubber, butyl-rubber or nitrile-rubber. Please pay attention to the glove penetration times of the substances named below in chapter 2, according to the glove manufactures. After washing hands replace lost skin fat by fat containing skin creams. Note BGR 195. Note TRGS 401.

##### Eye protection

Use safety goggles according to EN 166. Note BGR 192.

##### 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. Note BGR 189. Note TRGS 401.

#### 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.

## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Image

**Form :** Liquid.  
**Colour :** According to product identification.  
**Odour :** Like solvent.

#### Relevant safety data

<b>Melting point / range :</b>			not applicable	
<b>Boiling point / range :</b>	( 1013 hPa )	ca.	120 - 200	°C
<b>Decomposition point / range :</b>			no data available	
<b>Flash point:</b>		>	23	°C
<b>Ignition temperature :</b>		>	200	°C
<b>Lower explosion limit :</b>		ca.	0,6	% b.v.
<b>Upper explosion limit :</b>		ca.	10	% b.v.
<b>Vapour pressure :</b>	( 50 °C )	<	50	hPa
<b>Density :</b>	( 20 °C )		1,4 - 1,5	g/cm <sup>3</sup>
<b>Solvent-separation test :</b>	( 20 °C )	<	3	%
<b>Solubility in water :</b>	( 20 °C )		partially soluble	
<b>pH value :</b>			no data available	
<b>Flow time :</b>	( 20 °C )		60 - 65	s
<b>Viscosity :</b>	( 23 °C )		no data available	
<b>Kinematic viscosity:</b>	( 23 °C )	>	20	mm <sup>2</sup> /s
<b>Solids content :</b>			60 - 70	% b.w.

### 9.2 Other information

The physical specifications are approximate values and refer to the used safety relevant component(s).

## 10. Stability and reactivity

# Material Safety Data Sheet

## according to Regulation (EC) 1907/2006



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### 10.1 Reactivity

There are no data available on the product itself.

### 10.2 Chemical stability

There are no data available on the product itself.

### 10.3 Possibility of hazardous reactions

There are no data available on the product itself.

### 10.4 Conditions to avoid

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

### 10.5 Incompatible materials

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

### 10.6 Hazardous decomposition products

None, if handled according to order. When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

## 11. Toxicological information

### 11.1 Information on toxicological effects

There are no data available on the product itself.

### 11.2 Experience on practice

There are no data available on the product itself. Inhalation/eye contact: in high concentrations irritating to the mucous membranes, narcotic effect and influence on power of reaction and loss of coordination possible. Prolonged inhalation of vapours in high concentrations may lead to headache, giddiness and nausea. In case of contact with the product: danger of resorption through the skin, irritation of skin/mucous membranes. Eye contact: irritation.

### 11.3 Additional toxicological information

The product was classified in toxicological terms on the basis of the results of the calculation procedure outlined within General Directive on Preparations (1999/45/EC).

## 12. Ecological information

### 12.1 Toxicity

#### Aquatic toxicity

Specification :	EC50 ( TRIZINC BIS(ORTHOPHOSPHATE) ; CAS-No. : 7779-90-0 )
Parameters :	Daphnia
Value / dosage :	< 1,7 mg/l
Test-period :	48 h
Specification :	LC50 ( TRIZINC BIS(ORTHOPHOSPHATE) ; CAS-No. : 7779-90-0 )
Parameters :	Fish
Value / dosage :	< 5,1 mg/l
Test-period :	96 h

### 12.2 Persistence and degradability

There are no data available on the product itself.

### 12.3 Bioaccumulative potential

There are no data available on the product itself.

### 12.4 Mobility in soil

There are no data available on the product itself.

### 12.5 Results of PBT and vPvB assessment

There are no data available on the product itself.

### 12.6 Other adverse effects

Do not empty into waters or drains.

# Material Safety Data Sheet

according to Regulation (EC) 1907/2006



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**Version (Revision) :** 5.0.0 (4.0.0)

## 13. Disposal considerations

Note sections 7 and 8.

### 13.1 Waste treatment methods

**Recommendation**

Can be taken to a suitable incineration centre in observance of local regulations.

**Waste key**

EWC-Code: 08 01 11.

### Contaminated packaging

**Recommendation**

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.

**Waste key**

Uncleaned packaging: EWC-Code: 15 01 10. Cleaned packaging: EWC-Code: 15 01 04.

## 14. Transport information

### 14.1 UN number

1263

### 14.2 UN proper shipping name

**ADR/RID**

PAINT

**IMDG-Code**

PAINT ( SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM.  
Benzene < 0,1% (Note P, Annex I · TRIZINC BIS(ORTHOPHOSPHATE) )

**ICAO-TI / IATA-DGR**

PAINT

### 14.3 Transport hazard class(es)

**ADR/RID**

**Class :** 3  
**Classification-Code :** F1  
**Kemlercode :** 30  
**Tunnel restriction code :** D/E  
**Special provisions :** 640E · LQ 7 · E 1  
**Label :** 3 / N

**IMDG-Code**

**Class :** 3  
**EmS number :** F-E / S-E  
**Special provisions :** LQ 5 I · E 1  
**Label :** 3 / N

**ICAO-TI / IATA-DGR**

**Class :** 3  
**Special provisions :** E 1  
**Label :** 3

### 14.4 Packing group

III

### 14.5 Environmental hazards

**ADR/RID :** N

**IMDG-Code :** P

**ICAO-TI / IATA-DGR :** N

### 14.6 Special precautions for user

None.



# Material Safety Data Sheet

## according to Regulation (EC) 1907/2006



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**Version (Revision) :** 5.0.0 (4.0.0)

## 15. Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### National regulatory information

Note the Young Persons Employment Act. Note the Council Directive 92/85/EEC. Note TRGS 001. Note TRGS 400.

#### Emission control act ("TA-Luft")

Sum organic substances class I : < 0,5 %

Sum organic substances class III : < 5 %

#### Water pollution classification

Class : 2 according VwVwS

### 15.2 Chemical safety assessment

There are no data available on the product itself.

## 16. Other information

### Further information

#### Abbreviations and acronyms used:

TRGS: German Technical Rule for Hazardous Substances. BGR(I): Rule (Information) from the German employers liability insurance association. VwVwS: Administrative Regulation on the Classification of Substances Hazardous to Waters. VCI: German chemical industry association. EWC: European Waste Catalogue.

#### Relevant changes

02.2 Hazard-determining components of labelling · 02.2 GHS - Hazard pictograms · 02.2 GHS - Signal word · 02.2 GHS - Hazard statements · 02.2 GHS - Precautionary statements · 03. Hazardous components · 08.1 Control parameters · 14. Substance releasing the danger (IMDG)

#### R-Phrases of components

10	Flammable.
11	Highly flammable.
20	Harmful by inhalation.
20/21	Harmful by inhalation and in contact with skin.
20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
36	Irritating to eyes.
36/38	Irritating to eyes and skin.
37	Irritating to respiratory system.
38	Irritating to skin.
50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
65	Harmful: may cause lung damage if swallowed.
66	Repeated exposure may cause skin dryness or cracking.
67	Vapours may cause drowsiness and dizziness.

#### GHS Hazard statements of components

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

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according to Regulation (EC) 1907/2006



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H411 Toxic to aquatic life with long lasting effects.

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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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