



## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 22.07.2011

Revision: 06.08.2009

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

- **Product identifier**
- **Trade name:** SELLACK URETHANE SYNTHETIC METALLIC
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Sector of Use** METAL PROTECTION
- **Application of the substance / the preparation** METAL COATINGS//GENERAL INDUSTRIAL
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Betek Boya ve Kimya Sanayi A.S.  
G.O.S.B. Tembelova Alani 3200 Sokak No:3206  
41400 Gebze/ Kocaeli/ Türkiye  
Tel: 00 90 262 678 30 00  
Fax: 00 90 262 641 21 68  
Pelin.Ayar@betek.com.tr
- **Further information obtainable from:** R&D department.
- **Emergency telephone number:** +90 262 678 30 00

### 2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
GHS02 flame  
Flam. Liq. 2 H225 Highly flammable liquid and vapour.  
GHS08 health hazard  
Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.  
GHS05 corrosion  
Eye Dam. 1 H318 Causes serious eye damage.  
Skin Irrit. 2 H315 Causes skin irritation.  
Skin Sens. 1 H317 May cause an allergic skin reaction.
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**  
Xn; Harmful  
R48/20-63-65: Harmful: danger of serious damage to health by prolonged exposure through inhalation.  
Possible risk of harm to the unborn child. Harmful: may cause lung damage if swallowed.  
Xi; Irritant  
R36: Irritating to eyes.  
R10-67: Flammable. Vapours may cause drowsiness and dizziness.
- **Information concerning particular hazards for human and environment:**  
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- **Classification system:**  
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.
- **Label elements**
- **Labelling according to EU guidelines:**  
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

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- **Code letter and hazard designation of product:**  
*Xn Harmful*
- **Hazard-determining components of labelling:**  
*toluene*
- **Risk phrases:**
  - 10 *Flammable.*
  - 36 *Irritating to eyes.*
  - 48/20 *Harmful: danger of serious damage to health by prolonged exposure through inhalation.*
  - 63 *Possible risk of harm to the unborn child.*
  - 65 *Harmful: may cause lung damage if swallowed.*
  - 67 *Vapours may cause drowsiness and dizziness.*
- **Safety phrases:**
  - 7/9 *Keep container tightly closed and in a well-ventilated place.*
  - 23 *Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).*
  - 26 *In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.*
  - 36/37/39 *Wear suitable protective clothing, gloves and eye/face protection.*
  - 43 *In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water.*
  - 60 *This material and its container must be disposed of as hazardous waste.*
- **Special labelling of certain preparations:**  
*Contains 2-butanone oxime. May produce an allergic reaction.*
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** *Not applicable.*
- **vPvB:** *Not applicable.*

### 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** *Mixture of substances listed below with nonhazardous additions.*

· **Dangerous components:**

CAS: 108-88-3 EINECS: 203-625-9	<i>toluene</i> <i>Xn R48/20-63-65; Xi R38; F R11</i> <i>R67</i> <i>GHS02 Flam. Liq. 2, H225; GHS08 Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304; GHS07 Skin Irrit. 2, H315; STOT SE 3, H336</i>	10-25%
CAS: 71-36-3 EINECS: 200-751-6	<i>butan-1-ol</i> <i>Xn R22; Xi R37/38-41</i> <i>R10-67</i> <i>GHS02 Flam. Liq. 3, H226; GHS05 Eye Dam. 1, H318; GHS07 Acute Tox. 4, H302; STOT SE 3, H335+H336; Skin Irrit. 2, H315</i>	2.5-10%
CAS: 67-63-0 EINECS: 200-661-7	<i>propan-2-ol</i> <i>Xi R36; F R11</i> <i>R67</i> <i>GHS02 Flam. Liq. 2, H225; GHS07 Eye Irrit. 2, H319; STOT SE 3, H336</i>	2.5-10%

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CAS: 1330-20-7 EINECS: 215-535-7	xylene Xn R20/21; Xi R38 R10 GHS02 Flam. Liq. 3, H226; GHS07 Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	≤ 2.5%
CAS: 96-29-7 EINECS: 202-496-6	2-butanone oxime Xn R21-40; Xi R41; Xi R43 GHS08 Carc. 2, H351; GHS05 Eye Dam. 1, H318; GHS07 Acute Tox. 4, H312; Skin Sens. 1, H317	≤ 2.5%

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

### 4 First aid measures

- **Description of first aid measures**
- **General information:**  
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.

### 5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** CO<sub>2</sub>, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.  
Do not flush with water or aqueous cleansing agents
- **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.

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## 7 Handling and storage

- **Handling:**
- **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.  
Protect against electrostatic charges.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.

## 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**

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

<b>108-88-3 toluene</b>	
WEL	Short-term value: 384 mg/m <sup>3</sup> , 100 ppm Long-term value: 191 mg/m <sup>3</sup> , 50 ppm Sk
<b>71-36-3 butan-1-ol</b>	
WEL	Short-term value: 154 mg/m <sup>3</sup> , 50 ppm Sk
<b>67-63-0 propan-2-ol</b>	
WEL	Short-term value: 1250 mg/m <sup>3</sup> , 500 ppm Long-term value: 999 mg/m <sup>3</sup> , 400 ppm
<b>1330-20-7 xylene</b>	
WEL	Short-term value: 441 mg/m <sup>3</sup> , 100 ppm Long-term value: 220 mg/m <sup>3</sup> , 50 ppm Sk; BMGV

- **Additional information:** The lists valid during the making were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes.  
Avoid contact with the eyes and skin.
- **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.

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· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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

· **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

## 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

**Form:** Fluid  
**Colour:** According to product specification  
**Odour:** Characteristic

· **Change in condition**

**Melting point/Melting range:** Undetermined.  
**Boiling point/Boiling range:** Undetermined.

· **Flash point:** < 23°C

· **Ignition temperature:** 340°C

· **Self-igniting:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· **Explosion limits:**

**Lower:** 1.2 Vol %  
**Upper:** 7.0 Vol %

· **Vapour pressure at 20°C:** 29 hPa

· **Density at 20°C:** 1.46 g/cm<sup>3</sup>

· **Solubility in / Miscibility with**

**water:** Fully miscible.

· **Solvent content:**

**Organic solvents:** 22.8 %

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<b>VOC (EC)</b>	22.75 %
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## 10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values relevant for classification:**

### 108-88-3 toluene

Oral	LD50	5000 mg/kg (rat)
Dermal	LD50	12124 mg/kg (rabbit)
Inhalative	LC50/4 h	5320 mg/l (mouse)

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**  
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:  
Irritant

## 12 Ecological information

- **Toxicity**
- **Acquatic toxicity:** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

## 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

### · Land transport ADR/RID (cross-border)



- **ADR/RID class:** 3 (F1) Flammable liquids.
- **Danger code (Kemler):** 33
- **UN-Number:** 1263
- **Packaging group:** II
- **Hazard label:** 3
- **UN proper shipping name:** PAINT OR PAINT RELATED MATERIAL(XYLENE)
- **Tunnel restriction code** D1E

### · Maritime transport IMDG:



- **IMDG Class:** 3
- **UN Number:** 1263
- **Label** 3
- **Packaging group:** II
- **EMS Number:** F-E,S-E
- **Marine pollutant:** No
- **Proper shipping name:** PAINT OR PAINT RELATED MATERIAL(XYLENE)

### · Air transport ICAO-TI and IATA-DGR:



- **ICAO/IATA Class:** 3
- **UN/ID Number:** 1263
- **Label** 3
- **Packaging group:** II
- **Proper shipping name:** PAINT OR PAINT RELATED MATERIAL(XYLENE)

- **UN "Model Regulation":** UN1263, PAINT, 3, II
- **Special precautions for user** Warning: Flammable liquids.

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## 15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **National regulations:**

Class	Share in %
I	0.3
NK	22.8

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 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.*

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.*

H317 *May cause an allergic skin reaction.*

H318 *Causes serious eye damage.*

H319 *Causes serious eye irritation.*

H332 *Harmful if inhaled.*

H335 *May cause respiratory irritation.*

H336 *May cause drowsiness or dizziness.*

H351 *Suspected of causing cancer.*

H361d *Suspected of damaging the unborn child.*

H373 *May cause damage to organs through prolonged or repeated exposure.*

R10 *Flammable.*

R11 *Highly flammable.*

R20/21 *Harmful by inhalation and in contact with skin.*

R21 *Harmful in contact with skin.*

R22 *Harmful if swallowed.*

R36 *Irritating to eyes.*

R37/38 *Irritating to respiratory system and skin.*

R38 *Irritating to skin.*

R40 *Limited evidence of a carcinogenic effect.*

R41 *Risk of serious damage to eyes.*

R43 *May cause sensitisation by skin contact.*

R48/20 *Harmful: danger of serious damage to health by prolonged exposure through inhalation.*

R63 *Possible risk of harm to the unborn child.*

R65 *Harmful: may cause lung damage if swallowed.*

R67 *Vapours may cause drowsiness and dizziness.*

· **Department issuing MSDS: R&D DEPARTMENT**

· **Contact: R&D DEPARTMENT**

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

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*IATA: International Air Transport Association*

*IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)*

*ICAO: International Civil Aviation Organization*

*ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)*

*GHS: Globally Harmonized System of Classification and Labelling of Chemicals*

*VOC: Volatile Organic Compounds (USA, EU)*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

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