

according to 1907/2006/EC, Article 31

Printing date 12.02.2010

Revision: 07.09.2007

1 Identification of the substance/preparation and of the company/undertaking

- · Product details
- · Trade name: BETEK ROAD MARKING PAINT THINNER
- · Application of the substance / the preparation Road marking paint thinner.
- Manufacturer/Supplier: Betek Boya ve Kimya Sanayi A.S Inönü Mahallesi Güzeller Mevkii G.O.S.B. 41400 Gebze/Kocaeli/Türkiye Tel:0090 262 678 3000 Fax:0090 262 641 2168 Pelin.Ayar@betek.com.tr

• Further information obtainable from: R&D Department • Information in case of emergency: 00 90 262 678 30 00

2 Hazards identification

· Hazard description: Repr. Cat. 3 Xn Harmful F Highly flammable · Information concerning particular hazards for human and environment: R 11 Highly flammable. R 38 Irritating to skin. R 48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation. R 63 Possible risk of harm to the unborn child. R 65 Harmful: may cause lung damage if swallowed. R 67 Vapours may cause drowsiness and dizziness. · GHS label elements flame Danger H225 - Highly flammable liquid and vapour. health hazard Danger H304 - May be fatal if swallowed and enters airways. H361d - Suspected of damaging the unborn child. H373 - May cause damage to organs through prolonged or repeated exposure. exclamation mark Warning H315 - Causes skin irritation. H336 - May cause drowsiness or dizziness. · Prevention: P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P241 Use explosion-proof electrical/ventilating/lighting/equipment. · Response: P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. · Storage: P405 Store locked up. · Disposal: P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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3 Composition/information on ingredients

· Chemical characterization:

- · CAS No. Description 108-88-3 toluene
- Identification number(s)
- · EINECS Number: 203-625-9
- · Index number: 601-021-00-3

4 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: In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.

5 Fire-fighting measures

- · Suitable extinguishing agents:
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · Protective equipment: No special measures required.

6 Accidental release measures

- · Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.
- Measures for environmental protection: Do not allow to enter sewers/ surface or ground water.

• *Measures for cleaning/collecting:* Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

7 Handling and storage

- · Handling:
- · Information for safe handling: Ensure good ventilation/ exhaustion at the workplace.
- · Information about fire and explosion protection:

Keep ignition sources away - Do not smoke. Protect against electrostatic charges.

• Storage:

- Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions:

Keep container tightly sealed.

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Store in cool, dry conditions in well sealed receptacles.

8 Exposure controls/personal protection

• Additional information about design of technical facilities: No further data; see item 7.

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

108-88-3 toluene

WEL Short-term value: 574 mg/m³, 150 ppm Long-term value: 191 mg/m³, 50 ppm Sk

• Additional information: The lists valid during the making were used as basis.

· 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 skin.

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.

• 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.

· Penetration time of glove material

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

• Eye protection:



Tightly sealed goggles

General Information		
Form:	Fluid	
Colour:	Colourless	
Odour:	Aromatic	

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• Change in condition Melting point/Melting range: Boiling point/Boiling range:	
· Flash point:	4°C
· Ignition temperature:	535°C
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Explosion limits: Lower: Upper:	1.2 Vol % 7 Vol %
• Vapour pressure at 20°C:	29 hPa
· Density at 20°C:	0.870 g/cm ³
• Solubility in / Miscibility with water at 15°C:	0.5 g/l

10 Stability and reactivity

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

· Dangerous reactions No dangerous reactions known.

· Dangerous decomposition products: No dangerous decomposition products known.

11 Toxicological information

· 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	5000 mg/kg (rat) 12124 mg/kg (rabbit) 5320 mg/l (mouse)	

• Primary irritant effect:

• on the skin: Irritant to skin and mucous membranes.

• on the eye: No irritating effect.

• Sensitization: No sensitizing effects known.

• CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Repr. Cat. 3

12 Ecological information

· General notes:

Water hazard class 2 (German Regulation) (Assessment by list): 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.

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13 Disposal considerations

- · Product:
- · Recommendation Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- · Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.

14 Transport information

Land transport ADR/R		
ADR/RID class:	3 (F1) Flammable liquids.	
Danger code (Kemler):		
UN-Number:	1294	
Packaging group:		
Hazard label:	3 1204 TOLLIENE	
Description of goods:		
Maritime transport IM	DG:	
IMDG Class:	3	
UN Number:	1294	
Label	3	
Packaging group:		
EMS Number:	F-E,S-D	
Marine pollutant: Proper shipping name:	No	
Air transport ICAO-TI	and IATA-DGR:	
ICAO/IATA Class:	3	
UN/ID Number:	1294	
Label	3	
Packaging group:	II	
Proper shipping name:	TOLUENE	
UN "Model Regulation	'': UN1294, TOLUENE, 3, II	
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15 Regulatory information

- Labelling according to EU guidelines: The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
- Code letter and hazard designation of product: Repr. Cat. 3 Xn Harmful F Highly flammable

· Risk phrases:

- 11 Highly flammable.
- 38 Irritating to skin.
- 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:

- 2 Keep out of the reach of children.
- 36/37 Wear suitable protective clothing and gloves.
- 46 If swallowed, seek medical advice immediately and show this container or label.
- 62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

· National regulations:

Class	Share in %
NK	100.0

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.

· 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 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 EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent

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