

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

### Identification of the substance or preparation

**Trade name**  
SIGNKOTE

**Use of the substance/preparation**  
Liquid laminate

### Company/undertaking identification

**Name and address**  
FTC (UK) Ltd  
46 Wellington Road, Raunds, WELLINGBOROUGH, NN9 6DL, UK  
Telephone no. +44 (0)1933 460641 Fax no. +44 (0)1933 698799

**E-mail address of person responsible for this SDS**  
liquids@ftcuk.com

**Information provided by / telephone**  
Product safety +44 (0)1933 460641

**Emergency telephone**  
+44 (0)1933 460641

## 2. Hazards possibilities

**Classification** R52/53

**R phrases**  
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Specific hazards to man and the environment**  
The product is water polluting.

## 3. Composition / information on ingredients

### Chemical characterization

Liquid laminate containing water, based on polyurethane

### Hazardous ingredients

#### (2--METHOXYMETHYLETHOXY)PROPANOL

CAS no. 34590-94-8  
EINECS no. 252-104-2  
Concentration >=1 <5 %-b.w.

#### N-METHYL-2-PYRROLIDONE

CAS no. 872-50-4  
EINECS no. 212-828-1  
Concentration >= <5 %-b.w.  
Classification Xi;R36/38

#### 1-METHOXY--22--PROPANOL

CAS no. 107-98-2  
EINECS no. 203-539-1  
Concentration >=1 <5 %-b.w.  
Classification R10

**MIXTURE OF ALPHA-3-(3-(2H--BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXYPHENYL)PROPIONYL-OMEGA--HYDROXPOLY(OXYETHYLENE) AND ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXYPHENYL)PROPIONYL-OMEGA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL)PROPIION(OXYETHYLENE)**

ELINCS number 400-830-7  
Concentration >= 0,5 < 1 %-b.w.  
Classification Xi;R43  
N;R51/53

**SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM.**

CAS no. 64742 -95-6  
EINECS no. 265-199-0  
Concentration >= 0,5 < 1 %-b.w.  
Classification Xn;R65  
Xi;R37  
N;R51/53  
R10  
R66  
R67

**BIS(1,2,2,6,6--PENTAMETHYL-4-PIPERIDYL) SEBACATE**

CAS no. 41556 -26-7  
EINECS no. 255-437-1  
Concentration < 0,5 %-b.w.  
Classification R43  
N;R50/53

**TELOMER B MONOETHER WITH POLYETHYLENE GLYCOL**

CAS no. 65545 -80-4  
Concentration < 0,5 %-b.w.  
Classification N;R51/53

**1,2,4--TRIMETHYLBENZENE**

CAS no. 95-63-6  
EINECS no. 202-436-9  
Concentration < 0,5 %-b.w.  
Classification R10  
Xn;R20  
Xi;R36/37/38  
N;R51/53

**METHYL 1,2,2,6,6--PENTAMETHYL-4-PIPERIDYL SEBACATE**

CAS no. 82919 -37-7  
EINECS no. 280-060-4  
Concentration < 0,5 %-b.w.  
Classification R43  
N;R50/53

**ANHYDROUS AMMONIA**

CAS no. 7664-41-7  
EINECS no. 231-635-3  
Concentration < 0,5 %-b.w.  
Classification R10  
T;R23

C;R34  
N;R50

#### 4. **First aid measures**

**General information**

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 physician.

**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.).

**After ingestion**

Call a physician. Keep at rest. Do not induce vomiting.

#### 5. **Fire--fighting measures**

**Suitable extinguishing media**

Carbon dioxide, foam, sand, water.

**Special exposure hazards arising from the substance or preparation itself, its combustion products or from resulting gases**

Material supports the burning only after evaporation of the watery content. In this case, dangerous smoke gases such as carbon dioxide, carbon monoxide, soot and nitrogen oxides can be produced. Therefore, take suitable precautionary measures for fire fighting. Residues remaining after a fire have to be disposed of appropriately.

**Special protective equipment for fire-fighting**

Breathing apparatus with an independent source of air may be required.

**Other information**

Cool endangered containers with water in case of fire.

#### 6. **Accidental release measures**

**Personal precautions**

Provide for good ventilation. Do not breathe vapours. 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**

Remove by liquid absorbing material and process according to waste regulations.  
Clean preferably with a detergent; avoid use of solvents.

#### 7. **Handling and storage**

## Handling

### Advice on safe handling

Avoid vapour concentration higher than the workplace exposure limits. Do not leave containers open. Avoid contact with skin and eyes. Avoid inhalation of vapour and spray mist. When using do not eat, drink or smoke. Comply with the health and safety at work laws.

### Advice on protection against fire and explosion

Material supports the burning only after evaporation of the watery content.

## Storage

### Requirements for storage rooms and vessels

Store in cool but frostfree conditions in frostfree 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.

### Hints on storage assembly

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

### Further information on storage conditions

Always keep in containers of same material as the original one.

## 8. Expose controls/personal protection

### Exposure limit values

#### ANHYDROUS AMMONIA

2000/39/EC

Value 20 ml/m<sup>3</sup> 14 mg/m<sup>3</sup>

STEL 50 ml/m<sup>3</sup> 36 mg/m<sup>3</sup>

WEL (EH40/2005)

Value 25 ml/m<sup>3</sup> 18 mg/m<sup>3</sup>

STEL 35 ml/m<sup>3</sup> 25 mg/m<sup>3</sup>

#### 1-METHOXY-2-PROPANOL

2000/39/EC

Value 100 ml/m<sup>3</sup> 375 mg/m<sup>3</sup>

STEL 150 ml/m<sup>3</sup> 568 mg/m<sup>3</sup>

Skin resorption /  
sensibilisation skin

WEL (EH40/2005)

Value 100 ml/m<sup>3</sup> 375 mg/m<sup>3</sup>

STEL 150 ml/m<sup>3</sup> 560 mg/m<sup>3</sup>

Skin resorption /  
sensibilisation Sk

#### N-METHYL-2-PYRROLIDONE

WEL (EH40/2005)

Value 25 ml/m<sup>3</sup> 103 mg/m<sup>3</sup>

STEL 75 ml/m<sup>3</sup> 309 mg/m<sup>3</sup>

Skin resorption /  
sensibilisation Sk

#### 1,2,4--TRIMETHYLBENZENE

2000/39/EC				
Value	20	ml/m <sup>3</sup>	100	mg/m <sup>3</sup>
WEL (EH40/2005)				
Value	25	ml/m <sup>3</sup>	125	mg/m <sup>3</sup>

**(2--METHOXYMETHYLETHOXY)PROPANOL**

2000/39/EC				
Value	50	ml/m <sup>3</sup>	308	mg/m <sup>3</sup>
Skin resorption / sensibilisation	skin			
WEL (EH40/2005)				
Value	50	ml/m <sup>3</sup>	308	mg/m <sup>3</sup>
Skin resorption / sensibilisation	Sk			

**Exposure controls**

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, suitable respiratory protection must be worn.

**Occupational exposure controls****Respiratory protection**

Breathing protection equipment required in inadequately ventilated places and during spraying.

Respiratory filter (gas) : A

Respiratory filter (part): P2

**Hand protection**

Chemical protection gloves are suitable, which are tested according to EN 374.

Recommendation for protection against components normally found in the products:

For short-term contact (e.g. spray protection) as well as for long-term contact (e.g. cleaning purposes):

Suitable material: LLDPE  
Material thickness: 0.06 mm  
Penetration time: >480 min.

Protective gloves must always be tested and confirmed with regard to suitability to each specific working environment (e.g. mechanical resistance, product compatibility, antistatic).

Follow the instructions and information from the glove manufacturer in reference to use, storage, care, and frequency of glove exchange.

Protective gloves should be immediately replaced upon being damaged or when showing first signs of wear. Preventive skin protection (skin protective cream) is recommended. Contaminated skin areas should immediately be washed (follow data sheet for skin protection M 042).

Working procedures are to be so arranged that the permanent wearing of gloves will not be necessary.

We recommend to set up a hand protection plan, which is adapted to the needs of the local business.

**Eye protection**

Use safety glasses.

**Skin protection**

All parts of the body should be washed after contact. Use re-greasing skin cream.

**General protective and hygiene measures**

The usual precautionary measures for the handling of chemicals have to be observed.

## 9. Physical and chemical properties

**General information**

Form	liquid
Colour	milky
Odour	characteristic

**Important health, safety and environmental information****Changes in physical state**

Type	Starts to boil
Value	100 °C
Reference substance	(water)

**Flash point**

Value	not applicable
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**Ignition temperature**

Value	not applicable
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**Explosion limits**

Remarks	not applicable
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**Vapour pressure**

Value	23 hPa
Reference temperature	20 °C
Reference substance	(water)

**Density**

Value	1,03 g/cm <sup>3</sup>
Reference temperature	20 °C

**Solubility in water**

Remarks	mixable
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**pH value**

Value	8 - 9
Reference temperature	20 °C

**Other information**

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

## 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, dangerous decomposition products such as carbon dioxide, carbon monoxide, soot and nitrogen oxides can be produced.

**11. Toxicological information**

**Experience in practice**

Exposure to component solvents vapours concentration in excess of the stated workplace exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

May cause sensitization by skin contact.  
 Splashes in the eyes may cause mild irritation and cause the eyelids to stick together.  
 If swallowed, stomach complaints and irritation of the digestive organs may result.  
 Ingredient N-methyl-2-pyrrolidone may cause harm to the unborn child.

**Other information**

There are no data available on the preparation itself.  
 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/EEC).

**12. Ecological information**

**General information / ecology**

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

**13. Disposal considerations**

**Product**

EWC waste code 08 01 11\* waste paint and varnish containing organic solvents or other dangerous substances  
 Dispose of or incinerate in accordance with corresponding regulations.

**Uncontaminated packaging**

Dispose of only completely emptied containers!  
 Code of waste pursuant to European Council Directive on waste: 150102 (Waste of packaging; absorbents, wiping cloths, filter materials and protective clothing not otherwise specified - packaging (including separately collected municipal packaging waste) - plastic packaging).

**14. Transport information**

**Land transport ADR/RID**

Remarks non-dangerous goods

**Marine transport IMDG/GGVSee**

Remarks The product does not constitute a hazardous substance in sea transport.

**Air transport ICAO/IATA**

Remarks The product does not constitute a hazardous substance in air transport.

**15. Regulatory information**

**Labelling in accordance with EC directives**

The product is classified and labelled in accordance with EC directives/GefStoff V

**R phrases**

52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**S phrases**

29 Do not empty into drains.

**contains**

BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE; METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL SEBACATE; MIXTURE OF ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXYPHENYL)PROPIONYL-OMEGA-HYDROXYPOLY(OXYETHYLENE) AND ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXYPHENYL)PROPIONYL-OMEGA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXYPHENYL)PROPIONYLOXYPOLY(OXYETHYLENE); May produce an allergic reaction.

**16. Other information**

**Other information**

According to their chemical structure, the applied raw materials do not contain any antimony, arsenic, soluble barium, lead, cadmium, chromium, mercury and selenium.

**N-METHYL-2-PYRROLIDONE**

36/38 Irritating to eyes and skin.

**1-METHOXY-2-PROPANOL**

10 Flammable.

**MIXTURE OF ALPHA-3(3(2H-BENZOTRIAZOL-YL)-5-TERT-4-HYDROXYPHENYL)PROPIONYL-OMEGA-HYDROXYPOLY(OXYETHYLENE) AND ALPHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXYPHENYL)PROPIONYL-OMEGA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXYPHENYL)PROPIONYLOXYPOLY(OXYETHYLENE)**

43 May cause sensitization by skin contact.

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM.**

65 Harmful: may cause lung damage if swallowed.

10 Flammable.

37 Irritating to respiratory system.

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

66 Repeated exposure may cause skin dryness or cracking.

67 Vapours may cause drowsiness and dizziness.

**BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE**

43 May cause sensitization by skin contact.

50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**TELOMER B MONOETHER WITH POLYETHYLENE GLYCOL**

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**1,,2,4--TRIMETHYLBENZENE**

10 Flammable.

20 Harmful by inhalation.

36/37/38 Irritating to eyes, respiratory system and skin.

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL SEBACATE**

43 May cause sensitization by skin contact.



50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**ANHYDROUS AMMONIA**

10 Flammable.  
23 Toxic by inhalation.  
34 Causes burns.  
50 Very toxic to aquatic organisms.

**Other information**

The instructions are based on today's information and knowledge. The safety data sheet describes products in relation to safety requirements. These instructions do not assure application technological properties of the product.

**Disclaimer**

The user's attention is drawn to the risks brought upon by the misuse of the product. This data sheet does not exempt the user from knowing and applying the regulations to their activity. It is their own responsibility to take precautions according to their use of the product.

**For industrial use only. Keep this and all chemicals out of the reach of children.**

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FTC (UK) Ltd urges the customer receiving this material safety data sheet to study it carefully to become aware of hazards, if any, of the products involved. In the interest of safety, you should 1). Notify your employees, agents and contractors of the information on this sheet, 2). Furnish a copy to each of your customers for this product, and 3). Request your customers to inform their employees, customers and agents as well.