

# SAFETY DATA SHEET

SB1012, Sure-Bond™

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

### Identification of the substance or preparation

**Product name** : Sure-Bond™ Urethane Fast Set Adhesive (SB1012)  
**Synonyms** : Urethane elastomer.  
**Use of the substance/preparation** : Adhesive for Hoof blocks.

### Company/undertaking identification

**Supplier** : Jørgen Kruuse A/S  
 Havretoften 4  
 DK-5550 Langeskov  
 Denmark  
 e-mail: [info@kruuse.com](mailto:info@kruuse.com)  
<http://www.kruuse.com>

Tel: +45 7214 1511  
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## 2. Hazards identification

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

**Classification** : Xn; R20  
 Xi; R36/37/38  
 R42/43

**Physical/chemical hazards** : Not applicable.

**Human health hazards** : Not applicable: This product, in the form in which it is placed on the market, does not present any physico-chemical risk, or risk to health or the environment.

**Environmental hazards** : Not applicable.

See section 11 for more detailed information on health effects and symptoms.

## 3. Composition/information on ingredients

**Substance/preparation** : Preparation

Ingredient name	CAS number	%	EC Number	Classification
castor oil, polymer with 1,1'-methylenebis[4-isocyanatobenzene]	68424-09-9	45 - 50	Not applicable	Xn; R20 Xi; R36/37/38 R42/43
2-propanol, 1,1',1'',1'''-(1,2-ethanediyldinitrilo)tetrakis-m-xylene-alpha,alpha'-diamine	102-60-3	5 - 10	203-041-4	Xi; R36/38
	1477-55-0	1 - 3	216-032-5	T; R23 Xn; R21/22 C; R34 R43 R52/53
silane, triethoxy(3-isocyanatopropyl)-	24801-88-5	<1	246-467-6	T; R23 Xn; R21/22 C; R34 R43
<b>See section 16 for the full text of the R-phrases declared above</b>				

Occupational exposure limits, if available, are listed in section 8.

#### 4. First-aid measures

##### First-aid measures

- Inhalation** : No special measures required.
- Ingestion** : Have conscious person drink several glasses of water or milk. Get medical attention if symptoms appear.
- Skin contact** : Wash with soap and water. Get medical attention if irritation develops.
- Eye contact** : Flush with a copious amount of water for at least 10 minutes.

See section 11 for more detailed information on health effects and symptoms.

#### 5. Fire-fighting measures

- Extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Special exposure hazards** : No specific hazard.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials: carbon oxides (CO, CO<sub>2</sub>), nitrogen oxides (NO, NO<sub>2</sub> etc.).
- Remark** : Dyke area of fire to prevent runoff.

#### 6. Accidental release measures

- Personal precautions** : Do not touch or walk through spilt material. Keep unnecessary personnel away.
- Environmental precautions** : Prevent entry into sewers, water courses, basements or confined areas.
- Methods for cleaning up** : For small spills, add absorbent (soil may be used in the absence of other suitable materials), scoop up material and place in a sealable, liquid-proof container for disposal.

#### 7. Handling and storage

- Handling** : Avoid contact with eyes, skin and clothing. Keep container closed. Use only with adequate ventilation. Do not breathe vapour or mist. Wash thoroughly after handling.
- Storage** : Keep only in the original container.
- Packaging materials**
- Recommended** : Use original container.

#### 8. Exposure controls/personal protection

- Exposure limit values** : Not available.
- Exposure controls**
- Occupational exposure controls** : Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are close to the workstation location.
- Respiratory protection** : No special protection is required.
- Hand protection** : Gloves

#### 9. Physical and chemical properties

- Physical state** : Liquid.
- Colour** : Off-white.
- Odour** : Odourless.
- Odour threshold** : Not available.
- pH** : Not available.
- Boiling point** : >204°C
- Melting point** : Not available.
- Flash point** : 138°C.
- Flammability (solid, gas)** : Not applicable.
- Explosive properties** : Not available.
- Explosion limits** : Lower: 0.09% Upper: 9.5%
- Oxidising properties** : Not available.
- Vapour pressure** : <0.0002 mm Hg (at 20°C)
- Relative density** : Not available.

<b>Solubility</b>	: Not available.
<b>Octanol/water partition coefficient</b>	: Not available.
<b>Viscosity</b>	: Not available.
<b>Vapour density</b>	: Not available.
<b>Evaporation rate (butyl acetate = 1)</b>	: Not available.
<b>Auto-ignition temperature</b>	: Not available.

## 10. Stability and reactivity

<b>Stability</b>	: The product is stable.
<b>Hazardous decomposition products</b>	: Decomposition products may include the following materials: carbon oxides (CO, CO <sub>2</sub> ), nitrogen oxides (NO, NO <sub>2</sub> etc.).
<b>Hardening time</b>	: 30 seconds.

## 11. Toxicological information

### Potential acute health effects

<b>Inhalation</b>	: Not applicable: This product, in the form in which it is placed on the market, does not present any physico-chemical risk, or risk to health or the environment.
<b>Ingestion</b>	: No known significant effects or critical hazards.
<b>Skin contact</b>	: Not applicable: This product, in the form in which it is placed on the market, does not present any physico-chemical risk, or risk to health or the environment.
<b>Eye contact</b>	: Not applicable: This product, in the form in which it is placed on the market, does not present any physico-chemical risk, or risk to health or the environment.

### Acute toxicity

<u>Ingredient name</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
castor oil, polymer with 1,1'-methylenebis[4-isocyanatobenzene]	LD50	>7900 mg/kg	Dermal	Rabbit
m-xylene-alpha,alpha'-diamine	LD50	930 mg/kg	Oral	Rat
	LD50	2000 mg/kg	Dermal	Rabbit
	LC50	700 ppm (1 hour(s))	Inhalation	Rat

### Potential chronic health effects

<b>Carcinogenicity</b>	: No known significant effects or critical hazards.
<b>Mutagenicity</b>	: No known significant effects or critical hazards.
<b>Reproductive toxicity</b>	: No known significant effects or critical hazards.

## 12. Ecological information

<b>Other adverse effects</b>	: No known significant effects or critical hazards.
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## 13. Disposal considerations

<b>Methods of disposal</b>	: The generation of waste should be avoided or minimised wherever possible. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.
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## 14. Transport information


### International transport regulations

<b>Regulatory information</b>	<b>UN number</b>	<b>Proper shipping name</b>	<b>Class</b>	<b>Packing group</b>	<b>Label</b>	<b>Additional information</b>
<b>ADR/RID Class</b>	Not regulated.	-	-	-		-
<b>ADNR Class</b>	Not regulated.	-	-	-		-
<b>IMDG Class</b>	Not regulated.	-	-	-		-

IATA-DGR Class	Not regulated.	-	-	-	-
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## 15. Regulatory information

### EU regulations

- Label requirements** : This product is not to be labelled as a hazardous product based on the exemption mentioned in Directive 2001/59/EC, Annex VI, point 9.3, intended for 'Alloys, preparations containing polymers, preparations containing elastomers'.
- Hazard symbol or symbols** : 
- Harmful
- Risk phrases** : R20- Harmful by inhalation.  
R36/37/38- Irritating to eyes, respiratory system and skin.  
R42/43- May cause sensitisation by inhalation and skin contact.
- Safety phrases** : S23- Do not breathe gas, fumes or vapour.  
S24- Avoid contact with skin.  
S37- Wear suitable gloves.  
S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- Contains** : castor oil, polymer with 1,1'-methylenebis[4-isocyanatobenzene] - m-xylene-alpha,alpha'-diamine 216-032-5
- Product use** : Classification and labeling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use.

## 16. Other information

- Full text of R-phrases referred to in sections 2 and 3 - United Kingdom (UK)** : R23- Toxic by inhalation.  
R20- Harmful by inhalation.  
R21/22- Harmful in contact with skin and if swallowed.  
R34- Causes burns.  
R36/38- Irritating to eyes and skin.  
R36/37/38- Irritating to eyes, respiratory system and skin.  
R43- May cause sensitisation by skin contact.  
R42/43- May cause sensitisation by inhalation and skin contact.  
R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- Full text of classifications referred to in sections 2 and 3 - United Kingdom (UK)** : T - Toxic  
C - Corrosive  
Xn - Harmful  
Xi - Irritant

### History

- Date of printing** : 5-8-2009
- Date of issue** : 9-6-2008.
- Date of previous issue** : No previous validation.
- Version** : 2
- Prepared by** : Not available.

### Notice to reader

*To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.*

*Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.*