



since 1895

# SAFETY DATA SHEET

(Conforming to 1907/2006/EC)

Product Name:

## WHITE-KNIGHT™ DARK GREY

SDS Reference

Version No. 7

Previous issue date September 2012

Revision date

01-06-2015

## 1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND COMPANY

1.1 Product Name	White-Knight™ Dark Grey (Product No. 7831)		
1.2 Relevant Use(s)/misuse(s)	Two component isocyanate based sealant.		
1.3 SDS Supplier	The Garland Company UK Ltd Unit 5 Glevum Works Upton Street, Gloucester GL1 4LA, UK	Telephone: 01452 330646 Mobile: 07887 923 121 Website: www.garlandukltd.co.uk	
1.4 Emergency Telephone	44 (0)1452 330646 (Office hours)	Competent person e-mail: trevor@rising-hsande.co.uk	

## 2. HAZARDS IDENTIFICATION

### 2.1 CLASSIFICATION OF THE MIXTURE

#### 2.1.1 Classification according to Regulation (EC) No 1272/2008 (CLP/GHS)

Flam Liq. 3 H226  
Asp. Tox. H304  
Skin Sens.1 H317  
Aquatic Chronic 2 H411

#### 2.1.2 Additional information

See section 16 for full text of H statements.

### 2.2 LABELLING ELEMENTS

#### 2.2.1 Labelling in accordance with EC Regulation No 1272/2008 (CLP/GHS)

Pictogram(s):



Signal word

DANGER

Hazard statement(s)

H226 FLAMMABLE LIQUID AND VAPOUR.  
H304 MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS  
H317 MAY CAUSE AN ALLERGIC SKIN REACTION  
H411 TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS,

**Precautionary statement(s)**

P210 KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOTSURFACES. — NO SMOKING.  
 P280 WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION.  
 P302+352 IF ON SKIN: WASH WITH PLENTY OF SOAP AND WATER.  
 P308+313 IF EXPOSED OR CONCERNED: GET MEDICAL ADVICE/ATTENTION.  
 P501 DISPOSE OF CONTENTS/CONTAINER TO HAZARDOUS OR SPECIAL WASTE COLLECTION SITE IN ACCORDANCE WITH LOCAL / REGIONAL / NATIONAL OR INTERNATIONAL REGULATIONS

**2.3 OTHER HAZARDS**

NONE KNOWN

**3. COMPOSITION / INFORMATION ON INGREDIENTS****Chemical Characterisation**

MIXTURE

<u>Chemical name</u>	<u>CAS-No</u>	<u>EINECS/ELINCS</u>	<u>Classification</u>	<u>Concentration</u>
STODDARD SOLVENT	8052-41-3	232-489-3	Flam. Liq. 3 H226; Asp. Tox. 1 H304	10-30%
d-LIMONENE	5989-27-5	227-813-5	Flam. Liq. 3 H226; Skin Irrit. 2 H315; Skin Sens. 1 H317; Aquatic Acute 1 H400; Aquatic Chronic 1 H410	1-5%
TOLUENE-DIISOCYANATE	26471-62-5	247-722-4	Skin Irrit. 2 H315; Skin Sens. 1 H317; Eye Irrit. 2 H319; Acute Tox. 2 H330; Resp. Sens. 1 H334; Carc. 2 H351; STOT SE 3 H335; Aquatic Chronic 3 H413	<1%

**4. FIRST AID MEASURES****4.1 Description of measures****Inhalation**

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

**Skin contact**

Immediately clean areas of skin affected with plenty of water. If necessary, seek medical advice.

**Eye contact**

Wash out eye thoroughly with plenty of water until irritation subsides. If necessary (e.g. irritation persists), consult an eye specialist/ophthalmologist.

**Ingestion**

Allow the patient to vomit on his own accord. Give copious water to drink; If necessary, seek medical advice.

**4.2 Most important effects/symptoms**

Vapours may cause drowsiness and dizziness and possibly respiratory sensitisation.

**4.3 Immediate/special treatment**

Treatment as described above. The severity of the symptoms described will vary dependant of the concentration and the length of exposure.

**5. FIRE FIGHTING MEASURES**

- 5.1 Extinguishing media** To suit local surroundings (e.g. foam, carbon dioxide, dry powder). Do not use water
- 5.2 Special hazards** Avoid run-off water entering the drains (e.g. use barriers). In case of fire, toxic gases (CO, CO<sub>2</sub>, NO<sub>x</sub>) may be formed. Vapours may ignite.
- 5.3 Advice for fire fighters** Wear self-contained breathing apparatus. Containers close to fire should be removed immediately or cooled with water.

**6. ACCIDENTAL RELEASE MEASURES**

- 6.1 Personal precautions** Adhere to personal protective measures.
- 6.2 Environmental precautions** Do not allow to get into waste water or waterways; if this occurs, inform the relevant water authority at once.
- 6.3 Methods and materials for cleaning up** Adhere to personal protective measures. Take up with absorbent material, e.g. sand, sawdust, into tightly closed containers. Label container and dispose of as prescribed
- 6.4 Reference to other sections** See section 8 for personal protective equipment.

**7. HANDLING & STORAGE**

- 7.1 Precautions for safe handling** Handle in accordance with good hygiene and safety practice. Take precautionary measures against static discharges. Avoid contact with oxidising agents.
- 7.2 Conditions for safe storage** Store in tightly closed original container in a dry, cool and well-ventilated place. Avoid contact with oxidising agents.
- 7.3. Specific end use(s)** Two component isocyanate based sealant.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

- 8.1 Controls parameters** There are no occupational exposure limit values available (those for solid materials are not relevant). Comply with good practice.
- 8.2 Exposure controls**
- Engineering controls** Provide adequate ventilation (e.g. local exhaust ventilation).  
Avoid the build-up of electrostatic charges.
- Personal protection** Observe normal standards for handling chemicals.  
Do not eat, drink or smoke in the working area  
Those with a history of sensitisation should take appropriate protective measures  
Persons with impaired lung functions should not handle this preparation.  
Avoid inhalation of vapours/spray  
Wash hands before breaks and after work.  
Wear personal protective equipment appropriate to the task (see below)
- Eye protection** Safety goggles (i.e. EN 166 approved)
- Skin protection** Suitable gloves (also consider your own risk assessment; e.g. breakthrough times, rates of diffusion and degradation, tasks undertaken)
- Respiratory protection** If ventilation is insufficient, wear a NIOSH/OSHA respirator
- Other protection** Protective overall



**9. PHYSICAL AND CHEMICAL PROPERTIES****9.1 Basic physical and chemical properties**

<b>Physical form</b>	Liquid.		
<b>Colour</b>	Dark Grey.		
<b>Odour</b>	Hydrocarbon.		
<b>Odour threshold</b>	Not determined		
<b>pH</b>	Not determined		
<b>Boiling pt / range</b>	ca. 153	°C	
<b>Melting pt / range</b>	Not determined	°C	
<b>Flash point</b>	41°C		
<b>Flammability</b>	0.7% (lower)	10.7% (higher)	
<b>Thermal decomposition</b>	Not applicable		
<b>Evaporation rate</b>	0.1 (EtEt=1)		
<b>Explosion limits</b>	Not determined	Lower:	Upper:
<b>Auto-ignition temperature</b>	Not determined		
<b>Decomposition temp.</b>	Not applicable		
<b>Specific gravity</b>	1.26		
<b>Vapour pressure</b>	Not determined		
<b>Vapour density</b>	7.0		
<b>Viscosity</b>	Not determined		
<b>Water solubility</b>	Insoluble		
<b>Explosive properties</b>	Not determined		
<b>Oxidising properties</b>	Not determined		
<b>Partition coeff. Log<sub>Oct/water</sub></b>	Not determined		
<b>9.2 Other information</b>	Volatile Organic Compound (VOC) 220 g/litre		

**10. STABILITY AND REACTIVITY**

<b>10.1 Reactivity</b>	Strong oxidising substances..
<b>10.2 Chemical stability</b>	Stable under normal conditions of handling.
<b>10.3 Hazardous reactions</b>	None known
<b>10.4 Conditions to avoid</b>	Avoid contact with strong oxidisers. Avoid heat, flames and other sources of ignition.
<b>10.5 Incompatible material</b>	Strong oxidising substances.
<b>10.6 Hazardous decomposition products</b>	In case of fire, toxic gases (CO, CO <sub>2</sub> , NO <sub>x</sub> ) may be formed. Hydrocarbons.

**11. TOXICOLOGICAL INFORMATION**

## 11.1 information on toxicological effects

<b>Acute toxicity</b>	LD <sub>50</sub> rat (oral)	>2000	mg/kg	d-limonene**
	EC <sub>50</sub> rat (inhal)	66	ppm	toluene-diisocyanate **
	LD <sub>50</sub> rat (oral)	>4000	mg/kg	toluene-diisocyanate **
	LD <sub>50</sub> rat (derm)	>9000	mg/kg	toluene-diisocyanate **
	LD <sub>50</sub> rat (oral)	>2000	mg/kg	stoddard solvent
				** REACH dossier information
<b>Dermal compatibility</b>	No data available. May cause skin irritation and sensitisation			
<b>Mucous membrane compatibility</b>	No data available. May cause eye irritation			
<b>Further information</b>	Vapours may cause headache, fatigue, dizziness and nausea.			

**12. ECOLOGICAL INFORMATION**

<b>12.1 Toxicity</b>	LC <sub>50</sub> Fish (fat-head minnow)	720	mg/l	d-limonene**, 96hrs
	EC <sub>50</sub> Daphnia magna	0.36	mg/l	d-limonene**, 48 hrs
	EC <sub>50</sub> Daphnia magna	12.5	mg/l	toluene-diisocyanate**, 48 hrs
				** REACH dossier information
<b>12.2 Degradability</b>	Not determined			
<b>12.3 Bioaccumulative potential</b>	Not determined			
<b>12.4 Mobility in soil</b>	Not determined			
<b>12.5 PBT/vPvB assessment</b>	Not determined			
<b>12.6 Other adverse effects</b>	Do not allow to get into waste water or waterways; if this occurs, inform the relevant water authority at once.			

**13. DISPOSAL CONSIDERATIONS**

## 13.1 Waste treatment measures

<b>Advice on disposal</b>	In accordance with national and local authority regulations, e.g. The Hazardous Waste (England & Wales) Regulations 2005. Treat empty containers in the same way as the product or if possible wash out thoroughly and recycle.
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**14. TRANSPORT INFORMATION**

<b>14.1 United Nations number ADR, IMDG, IATA</b>	UN1263
<b>14.2 Proper shipping name ADR, IMDG, IATA</b>	PAINT
<b>14.3 Transport class(s) ADR, IMDG, IATA</b>	3
<b>14.4 Packing group ADR, IMDG, IATA</b>	III
<b>14.5 Environmental hazards ADR, IMDG, IATA</b>	The product SHOULD be marked as a marine pollutant
<b>14.6 Special procedures ADR, IMDG, IATA</b>	None known.
<b>14.7 Transport in bulk ADR, IMDG, IATA</b>	Not applicable



Product Name:

**WHITE-KNIGHT™ DARK GREY**

SDS Reference

## 15. REGULATORY INFORMATION

### 15.1 Safety, health and environmental regulations

The product is classified in accordance with EC Regulation 1272/2008 (CLP), Other regulatory information and provisions are not applicable for this product.

### 15.2 Chemical safety assessment

Not applicable

## 16. OTHER INFORMATION

### Further information

The SDS has been revised in accordance with EC Regulation 1272/2008 (CLP)

### Hazard statements referred to in sections 2-15

H226 Flammable liquid and vapour.  
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  
H319: Causes serious eye irritation.  
H335: May cause respiratory irritation.  
H351: Suspected of causing cancer  
H400: Very toxic to aquatic life.  
H410: Very toxic to aquatic life with long lasting effects.  
H411: Toxic to aquatic life with long lasting effects,  
H413: May cause long lasting harmful effects to aquatic life.

### Sources of data

Other suppliers' safety data sheets

### Date of issue

01-06-2015

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Data sheet prepared by Rising HS&E Services.