



since 1895

SAFETY DATA SHEET

(Conforming to 1907/2006/EC)

Product Name:

TUFF-STUFF

SDS Reference

Version No. 3

Previous issue date October 2012

Revision date

01-06-2015

1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND COMPANY

1.1 Product Name	Tuff-stuff (Product No. 2135, 2136)		
1.2 Relevant Use(s)/misuse(s)	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)

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

NONE

Hazard statement(s)
Precautionary statement(s)

- H411 TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS,
P280 WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION.
P273 AVOID RELEASE TO THE ENVIRONMENT.
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

THE PREPARATION CONTAINS SUBSTANCES THAT HAVE A WORKPLACE EXPOSURE LIMIT (WEL)

Product Name:**TUFF-STUFF****SDS Reference****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>
CALCIUM CARBONATE	317-65-3	215-279-6	Not classified	30-60%
SILICA AMORPHOUS	7631-86-9	231-545-4	Not classified	1-5%
TOSYL ISOCYANATE	4083-64-1	223-810-8	Skin Irrit. 2 H315; Eye Irrit. 2 H319; Resp. Sens. 1 H334; STOT SE 3 H335 EUH014	<1%
TRIMETHYL-1,3-PENTANEDIOL ISOBUTYRATE BENZYL PHTHALATE	16883-83-3	240-920-1	Acute Tox. 4 H302; Aquatic Acute 1 H400; Aquatic Chronic 1 H410	5-10%
XYLENE	1330-20-7	215-535-7	Flam. Liq. 3 H226; Acute Tox. 4 H312; Skin Irrit. 2 H315; Acute Tox. 4 H332	<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

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

None known

4.3 Immediate/special treatment

Treatment as described above.

5. FIRE FIGHTING MEASURES**5.1 Extinguishing media**

To suit local surroundings (e.g. foam, carbon dioxide, dry powder or water fog). Do not use strong water jet.

5.2 Special hazardsAvoid run-off water entering the drains (e.g. use barriers). Carbon monoxide (CO). Carbon dioxide (CO₂). Hydrocarbons are released in a fire**5.3 Advice for fire fighters**

Wear self-contained breathing apparatus. Avoid run-off water entering the drains (e.g. use barriers)

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.

Product Name:

TUFF-STUFF

SDS Reference

7. HANDLING & STORAGE

- 7.1 Precautions for safe handling** Handle in accordance with good hygiene and safety practice..
- 7.2 Conditions for safe storage** Keep containers tightly closed and in cool, dry, well-ventilated areas. Keep in original container
- 7.3. Specific end use(s)** Sealant.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- 8.1 Controls parameters**
- | | | |
|---------------------|------------------------|---------------------------------|
| LTTEL (8 hour TWA): | 10 mg/m ³ | WEL data for calcium carbonate |
| LTTEL (8 hour TWA): | 2.4 mg/m ³ | WEL data for silica amorphous |
| LTTEL (8 hour TWA): | 0.02 mg/m ³ | WEL data for tosyl isocyanate |
| STEL (15 min.): | 0.07 mg/m ³ | WEL I data for tosyl isocyanate |
| LTTEL (8 hour TWA): | 220 mg/m ³ | WEL data for xylene |
| STEL (15 min.): | 441 mg/m ³ | WEL data for Xylene |
- 8.2 Exposure controls**
- Engineering controls** Provide adequate ventilation (e.g. local exhaust ventilation).
- Personal protection** Observe normal standards for handling chemicals.
Do not eat, drink or smoke in the working area
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

- Physical form** liquid.
- Colour** Not determined
- Odour** Petroleum distillates.
- Odour threshold** Not determined
- pH** Not applicable
- Boiling pt / range** Not determined °C
- Melting pt / range** Not determined °C
- Flash point** >93°C
- Flammability** Not applicable
- Thermal decomposition** Not applicable

Product Name:

TUFF-STUFF

SDS Reference

9. PHYSICAL AND CHEMICAL PROPERTIES

Evaporation rate	Slower than ether (EtEt=1)		
Explosion limits	Not determined	Lower:	Upper:
Auto-ignition temperature	Not determined		
Decomposition temp.	Not applicable		
Specific gravity	1.4		
Vapour pressure	Not determined		
Vapour density	Not determined		
Viscosity	Not determined		
Water solubility	Insoluble		
Explosive properties	Not determined		
Oxidising properties	Not determined		
Partition coeff. Log _{Oct/water}	Not determined		
9.2 Other information	None known		

10. STABILITY AND REACTIVITY

10.1 Reactivity	Stable under normal conditions of handling.
10.2 Chemical stability	Stable under normal conditions of handling.
10.3 Hazardous reactions	Will not polymerise.
10.4 Conditions to avoid	Avoid heat, flames and other sources of ignition.
10.5 Incompatible material	None known
10.6 Hazardous decomposition products	None known

11. TOXICOLOGICAL INFORMATION

11.1 information on toxicological effects

Acute toxicity	LD ₅₀ rat (oral)	3520	mg/kg	Xylene, REACH dossier information
	LD ₅₀ rabbit (derm)	>4200	mg/kg	Xylene, REACH dossier information
	EC ₅₀ rat (inhal)	>5610	mg/m ³	Xylene, REACH dossier information
	LD ₅₀ rat (oral)	4650	mg/kg	Calcium carbonate
	LD ₅₀ rat (oral)	>5000	mg/kg	silica amorphous, REACH dossier information
	LD ₅₀ rabbit (derm)	>5000	mg/kg	silica amorphous, REACH dossier information
	EC ₅₀ rat (inhal)	>0.14	mg/kg	silica amorphous, REACH dossier information
	LD ₅₀ rat (oral)	2234	mg/kg	tosyl isocyanate
	EC ₅₀ rat (inhal)	>640	mg/kg	tosyl isocyanate
	LD ₅₀ rabbit (derm)	>10000	mg/kg	trimethyl-1,3-pentenediol isobutyrate benzyl phthalate, REACH dossier information
	Dermal compatibility	No data available.		
Mucous membrane compatibility	No data available.			
Further information	None known			



12. ECOLOGICAL INFORMATION

12.1 Toxicity	LC ₅₀ Fish (Rainbow trout)	2.6	mg/l	96hr xylene**
	IC ₅₀ Daphnia magna	1	mg/l	24hr xylene**
	LC ₅₀ Fish (zebra fish)	>10000	mg/l	96hr calcium carbonate
	EC ₅₀ Daphnia magna	>1000	mg/l	24hr calcium carbonate
	LC ₅₀ Fish (zebra fish)	>10000	mg/l	96hr silica amorphous**
	EC ₅₀ Daphnia magna	>1000	mg/l	24hr silica amorphous**
	LC ₅₀ Fish	>1000	mg/l	96hr magnesium carbonate**
	EC ₅₀ Daphnia magna	7.5	mg/l	48hr trimethyl-1,3-pentenediol isobutyrate benzyl phthalate**
	** REACH dossier information			
12.2 Degradability	Not determined			
12.3 Bioaccumutive potential	Not determined			
12.4 Mobility in soil	The product is insoluble in water.			
12.5 PBT/vPvB assessment	Not determined			
12.6 Other adverse effects	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**

Advice on disposal	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

14.1 United Nations number ADR, IMDG, IATA	UN3082	
14.2 Proper shipping name ADR, IMDG, IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TRIMETHYL-1, 3-PENTANEDIOL ISOBUTYRATE BENZYL PHTHALATE, DIBUTYL TIN DILAUATE)	
14.3 Transport class(s) ADR, IMDG, IATA	9	
14.4 Packing group ADR, IMDG, IATA	III	
14.5 Environmental hazards ADR, IMDG, IATA	The product SHOULD be marked as a marine pollutant	
14.6 Special procedures ADR, IMDG, IATA	None known.	
14.7 Transport in bulk ADR, IMDG, IATA	Not applicable	

Product Name:

TUFF-STUFF

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.
H302: Harmful if swallowed
H312: Harmful in contact with skin
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H332: Harmful if inhaled
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335: May cause respiratory irritation.
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

EUH014: Reacts violently with water

Sources of data

Other suppliers' safety data sheets, EH40(2011)

Date of issue

01-06-2015

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Data sheet prepared by Rising HS&E Services.