



since 1895

SAFETY DATA SHEET

(Conforming to 1907/2006/EC)

| | | | | | |
|----------------------|---|---------------------------|-----------|----------------------|------------|
| Product Name: | | GARLAND THINNERS | | SDS Reference | |
| Version No. | 3 | Initial issue date | July 2011 | Revision date | 01-06-2015 |

1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND COMPANY

| | | | | | |
|--------------------------------------|--|--|--|--|--|
| 1.1 Product Name | Garland Thinners (Product No. A1065) | | | | |
| 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)

Flam Liq. 3 H226
Asp. Tox. H304
Skin Sens. 1 H317
STOT SE 3 H335
Aquatic Chronic 3 H412

2.1.2 Additional information

See section 16 for full text of H statements.

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
H335 MAY CAUSE RESPIRATORY IRRITATION.
H412 HARMFUL TO AQUATIC LIFE WITH LONG LASTING EFFECTS

Product Name:**GARLAND THINNERS****SDS Reference****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. |
| P304+340 | IF INHALED: REMOVE TO FRESH AIR AND KEEP AT REST IN A POSITION COMFORTABLE FOR BREATHING. |
| 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

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

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> |
|--|---------------|----------------------|---|----------------------|
| 1,2,4-TRIMETHYLBENZENE | 95-63-6 | 202-436-9 | Flam. Liq. 3 H226; Acute Tox. 4 H332; Skin Irrit. 2 H315; Eye Irrit. 2 H319; STOT SE 3 H335; Aquatic Chronic 2 H411 | 1-5% |
| 2-METHOXY-1-METHYLETHYL ACETATE | 108-65-6 | 203-603-9 | Flam. Liq. 3 H226 | 10-30% |
| ISOPHORONEDIISOCYANATE HOMOPOLYMER | 53880-05-0 | Not assigned | Skin Sens. 1 H317 | 10-30% |
| SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM. | 64742-95-6 | 265-199-0 | Flam. Liq. 3 H226; STOT SE 3 H335; Asp. Tox. 1 H304; Aquatic Chronic 2 H411 | 10-30% |
| MESITYLENE | 108-67-8 | 203-604-4 | Flam. Liq. 3 H226; STOT SE 3 H335; Aquatic Chronic 2 H411 | 1-5% |
| PROPYLBENZENE | 103-65-1 | 203-132-9 | Flam. Liq. 3 H226; STOT SE 3 H335; Asp. Tox. 1 H304; Aquatic Chronic 2 H411 | <1% |
| XYLENE | 1330-20-7 | 215-535-7 | Flam. Liq. 3 H226; Acute Tox. 4 H312; Acute Tox. 4 H332; skin Irrit. 2 H315 | 1-5% |
| ISOPHORONE DI-ISOCYANATE | 4098-71-9 | 223-861-6 | Acute Tox. 3 H331; Skin Irrit. 2 H315; Eye Irrit. 2 H319; Resp. Sens. 1 H334; Skin Sens. 1 H317; STOT SE 3 H335; Aquatic Chronic 2 H411 | <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 Vapours may cause drowsiness and dizziness.

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 hazards Avoid 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. 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 Keep containers tightly closed and in cool, dry, well-ventilated areas.

7.3. Specific end use(s) Sealant

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**8.1 Controls parameters**

| | | | | |
|---------------------|--------|-----|-------------------|---|
| LTTEL (8 hour TWA): | 25ppm | 125 | mg/m ³ | WEL data for 1,2,4-trimethylbenzene |
| LTTEL (8 hour TWA): | 25ppm | 125 | mg/m ³ | WEL data for mesitylene |
| LTTEL (8 hour TWA): | 50ppm | 274 | mg/m ³ | Data for 2-methoxy-1-methylethyl acetate* |
| STEL (15 min.): | 100ppm | 548 | mg/m ³ | |
| LTTEL (8 hour TWA): | 50ppm | 220 | mg/m ³ | WEL data for xylene* |
| STEL (15 min.): | 100ppm | 441 | mg/m ³ | WEL data for xylene* |

*Can be absorbed through skin.

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
Avoid inhalation of vapours/spray
Those with a history of sensitisation should take appropriate protective measures
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 | Colourless | | |
| Odour | Hydrocarbon | | |
| Odour threshold | Not determined | | |
| pH | Not determined | | |
| Boiling pt / range | 146 | °C | |
| Melting pt / range | Not determined | °C | |
| Flash point | | 40°C | |
| Flammability | 1.5% (lower) | | 10.8 (higher) |
| Thermal decomposition | Not applicable | | |
| Evaporation rate | Not determined | | |
| Explosion limits | Not determined | Lower: | Upper: |
| Auto-ignition temperature | 315°C | | |
| Decomposition temp. | Not applicable | | |

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|--|
| Specific gravity | 1.21 |
| Vapour pressure | 5 mm Hg @ 37.7°C |
| Vapour density | 4.8 |
| Viscosity | Not determined |
| Water solubility | Reacts with water |
| Explosive properties | Not determined |
| Oxidising properties | Not determined |
| Partition coeff. Log _{Oct/water} | Not determined |
| 9.2 Other information | Volatile Organic Compound (VOC): 130 g/l |

10. STABILITY AND REACTIVITY

| | |
|---------------------------------------|---|
| 10.1 Reactivity | Strong oxidising substances. |
| 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. Avoid contact with acids and oxidising substances. Water, moisture. |
| 10.5 Incompatible material | Strong oxidising substances. Acids. Water. |
| 10.6 Hazardous decomposition products | None known |

11. TOXICOLOGICAL INFORMATION

11.1 information on toxicological effects

| | | | |
|-------------------------------|--|-----------------------|---|
| Acute toxicity | LD ₅₀ rat (oral) | >3000 mg/kg | All components, REACH dossier information |
| | EC ₅₀ rat (inhal) | >30 mg/m ³ | All components, REACH dossier information |
| | LD ₅₀ rabbit (derm) | >4000 mg/kg | All components, REACH dossier information |
| Dermal compatibility | No data available. May cause slight skin irritation | | |
| Mucous membrane compatibility | No data available. May cause slight irritation to eyes and respiratory tract. | | |
| Further information | Vapours may cause headache, fatigue, dizziness and nausea. The product is a skin sensitiser. | | |

12. ECOLOGICAL INFORMATION

| | | | | |
|---------------|------------------|------------------------|-----------|--|
| 12.1 Toxicity | LC ₅₀ | Fish (rainbow trout) | 2.6 mg/l | 96hr xylene** |
| | LC ₅₀ | Fish (goldfish) | 12.5 mg/l | 96hr mesitylene** |
| | LC ₅₀ | Fish (zebra fish) | >72 mg/l | 96hr isophorone di-isocyanate** |
| | LC ₅₀ | Fish (fat-head minnow) | >7.7 mg/l | 96hr 1,2,4-trimethylbenzene** |
| | LC ₅₀ | Fish (rainbow trout) | 100 mg/l | 96hr 2-methoxy-1-methylethyl acetate** |
| | EC ₅₀ | Daphnia magna | 1 mg/l | 24hr xylene** |
| | EC ₅₀ | Daphnia magna | 3.6 mg/l | 48hr 1,2,4-trimethylbenzene** |

Product Name:

GARLAND THINNERS

SDS Reference

12. ECOLOGICAL INFORMATION

EC₅₀ Daphnia magna 6 mg/l 48hr mesitylene**

** REACH dossier information

12.2 Degradability Partially biodegradable.

12.3 Bioaccumulative potential Not determined

12.4 Mobility in soil Reacts with 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.

14. TRANSPORT INFORMATION

14.1 United Nations number UN1263
ADR, IMDG, IATA

14.2 Proper shipping name PAINT RELATED MATERIAL
ADR, IMDG, IATA

14.3 Transport class(s) 3
ADR, IMDG, IATA

14.4 Packing group III
ADR, IMDG, IATA

14.5 Environmental hazards The product should not be marked as a marine pollutant
ADR, IMDG, IATA

14.6 Special procedures None known.
ADR, IMDG, IATA

14.7 Transport in bulk Not applicable
ADR, IMDG, IATA



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.
H332: Harmful if inhaled
H335: May cause respiratory irritation.
H411: Toxic to aquatic life with long lasting effects,
H412: Harmful to aquatic life with long lasting effects

Sources of data

Other suppliers' safety data sheets, EH40(2011)

Date of issue

01-06-2015

It is your own responsibility, to examine and confirm if this material meets or suits any regulation or restriction in your country or of your local authority. To the best of our knowledge, the information contained herein is correct and accurate. However, neither JSR nor any of its subsidiaries assumes any liability whatsoever for the correctness or accuracy of the information contained herein. The precautionary items were based on ordinary handling. In case of special handling, safety measures in compliance with the application and usage shall be executed. Final determination of safety and suitability of any material is the sole responsibility of the keeper and user. All materials may present unknown hazards, and therefore should be handled with adequate caution. Although certain hazards are described herein, they may not be the only hazards in relation to the products.