



COSHH information

Solatube® Daylighting Systems

Hazardous Materials Identification

Solatube Component	Material Status
Tube Aluminium, Adhesive & reflective film	Non~Hazardous
Dome; Polycarbonate	Non~Hazardous
Dome and Ceiling tube rings; ABS	Non~Hazardous
Tree; Nylon	Non~Hazardous
Flashing; powder coated steel	Non~Hazardous
Plastic foil tape	Non~Hazardous
Rivets	Non~Hazardous
White tape	Non~Hazardous
Geocel flashing sealant	See Attached
Flexseal flashing sealant	See Attached

The Sealant is a hazardous substance. Please use extreme caution. See the attached Material Safety Data Sheets for information before opening.

None of the other materials within the components ("articles") used in the Solatube® Daylighting System pose a health risk as defined by the COSHH data sheet.

SolaLighting Limited, 23 Osier Way, Olney Office Park, Olney, MK46 5FP

Tel 01234 241466 Fax 01234 241766
Email: daylight@solatube.co.uk Website: www.solatube.co.uk

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product name: GEOCEL ROOFERS MATE
Company name: Geocel Limited
Western Wood Way
Langage Science Park
Plympton
Plymouth
PL7 5BG
Tel: 01752 202060
Fax: 01752 334384

2. HAZARDS IDENTIFICATION

Main hazards: Flammable. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients: BIS(2,2,6,6-TETRAMETHYL-4-PIPERIDYL) SEBACATE <1%
EINECS: 258-207-9 CAS: 52829-07-9
[Xi] R36; [N] R51/53

- N-BUTYL ACETATE 30-50%
EINECS: 204-658-1 CAS: 123-86-4
[-] R10; [-] R66; [-] R67

4. FIRST AID MEASURES (SYMPTOMS)

Skin contact: There may be mild irritation at the site of contact.
Eye contact: There may be irritation and redness.
Ingestion: There may be irritation of the throat.
Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

4. FIRST AID MEASURES (ACTION)

Skin contact: Wash immediately with plenty of soap and water.
Eye contact: Bathe the eye with running water for 15 minutes.
Ingestion: Wash out mouth with water.
Inhalation: Consult a doctor.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used.
Exposure hazards: In combustion emits toxic fumes.
Protection of fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

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6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Refer to section 8 of SDS for personal protection details.

Environmental precautions: Do not discharge into drains or rivers.

Clean-up procedures: Absorb into dry earth or sand.

7. HANDLING AND STORAGE

Handling requirements: Ensure there is sufficient ventilation of the area.

Storage conditions: Store in cool, well ventilated area.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Hazardous ingredients: N-BUTYL ACETATE
WEL (8 hr TWA): 724 mg/m³ WEL (15 min STEL): 966 mg/m³

Engineering measures: Ensure there is sufficient ventilation of the area.

Hand protection: Protective gloves.

Eye protection: Safety glasses. Ensure eye bath is to hand.

Skin protection: Protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

State: Paste

Colour: Various

Odour: Sweet-smelling

Flash point°C: 27

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Conditions to avoid: Heat. Sources of ignition.

Materials to avoid: Strong oxidising agents.

Haz. decomp. products: In combustion emits toxic fumes.

11. TOXICOLOGICAL INFORMATION

Routes of exposure: Refer to section 4 of SDS for routes of exposure and corresponding symptoms.

12. ECOLOGICAL INFORMATION

Persistence and degradability: Biodegradable.

Bioaccumulative potential: No data available.

13. DISPOSAL CONSIDERATIONS

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

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14. TRANSPORT INFORMATION**ADR / RID****UN no:** Not Classified.**IMDG / IMO****UN no:** Not Classified.**IATA / ICAO****UN no:** Not Classified.**15. REGULATORY INFORMATION****Hazard symbols:** Symbol not required.**Risk phrases:** R10: Flammable.

R66: Repeated exposure may cause skin dryness or cracking.

R67: Vapours may cause drowsiness and dizziness.

Safety phrases: S23: Do not breathe vapour

S24/25: Avoid contact with skin and eyes.

Haz. ingredients (label): N-BUTYL ACETATE**Note:** The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.**16. OTHER INFORMATION****Risk phrases used in s.3:** R36: Irritating to eyes.

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R10: Flammable.

R66: Repeated exposure may cause skin dryness or cracking.

R67: Vapours may cause drowsiness and dizziness.

Legal disclaimer: This product safety data sheet was prepared in compliance with Art.31 and Annex II of Regulation (EC) No 1907/2006 (REACH) as well as their relevant amendments, on the approximation of laws, regulations and administrative provisions relative to the classification, packaging and labelling of dangerous substances and preparations.

It is the responsibility of persons in receipt of this Product Safety Data Sheet to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produces a formulation containing the Geocel product, it is the recipient's sole responsibility to

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ensure the transfer of all relevant information from the Geocel Product Safety Data Sheet to their own Product Safety Data Sheet in compliance with Regulation (EC) No 1907/2006.

All information and instructions provided in this Safety Data Sheet (SDS) are based on the current state of scientific and technical knowledge at the date indicated on the present SDS. Geocel shall not be held responsible for any defect in the product covered by this SDS, should the existence of such defect not be detectable considering the current state of scientific and technical knowledge.

As stated above, this Safety Data Sheet has been prepared in compliance with applicable European law. If you purchase this material outside Europe, where compliance laws may differ, you should receive from your local Geocel supplier a SDS applicable to the country in which the product is sold and intended to be used. Please note that the appearance and content of the SDS may vary - even for the same product - between different countries, reflecting the different compliance requirements. Should you have any question, please refer to your local Geocel supplier.



AvantiGrout stops water leaks. Permanently.

AV-248 Flexseal Material Safety Data Sheet

Avanti International, 822 Bay Star Blvd., Webster, TX 77598

Product Data Information: (281) 486-5600

CHEMTREC Emergency Phone: 1-800-424-9300

Date Issued: February 1, 1997

Identification

Trade Name: AV-248 Flexseal

Ingredient (s):

Dibutyl Maleate Percent: 35-50

CAS Number: 105-76-0

OSHA PEL: N/A ACGIH TLV: N/A

Poly(oxyalkylene) Polyol Percent: 30-50

CAS Number: Proprietary Information

OSHA PEL: N/A ACGIH TLV: N/A

4,4' - Diphenylmethane Diisocyanate Percent: 1-15

CAS Number: 101-68-8

OSHA PEL: 0..02 ppm ACGIH TLV: 0.02 ppm

Higher Oligomers of MDI Percent: 1-15

CAS Number: 9016-87-9

OSHA PEL: N/D ACGIH TLV: N/D

Diphenylmethane Diisocyanate Percent: 1-5

CAS Number: 26447-40-5

OSHA PEL: N/D ACGIH TLV: N/D

Hazard Ratings

4,4 Diphenylmethane Diisocyanate NFPA 704:

Health: 3 Fire: 1 Reactivity: 1 Special: None

Physical/Chemical Characteristics

Appearance and Odor: Pale yellow liquid, slightly sweet odor.

Boiling Point: 537.8 °F (281 °C)

Vapor Pressure (mm Hg.): 0.0001 mmHg @ 68°F (20 °C)

Vapor Density (Air=1): N/D

Specific Gravity (Water = 1): 1.114 @ 68/39.8°F (20/4 °C)

Melting Point: N/D

Evaporation Rate (Butyl Acetate=1): N/D

Solubility in Water: Not soluble.

Fire and Explosion Hazard Data

Flash Point: >270°F (>132 °C)

Flammable Limits: N/D

Extinguishing Media: For small fires, use dry chemical or carbon dioxide. For large fires, use fog or regular foam.

Special Fire Fighting Procedures: Wear a self-contained breathing apparatus with a full face piece. Apply cool water to sides of container until fire is out. Do not release fire water runoff into sewers or waterways.

Unusual Fire and Explosion Hazards: Vapors are heavier than air and may collect in low lying areas. Exposure to flames and arc welding can produce highly toxic gases due to thermal decomposition or combustion of the product. Exposure to heat from fire may cause containers to explode.

Reactivity

Stability: Stable at room temperature in closed containers.

Incompatibility (Materials to Avoid): Water, amines, strong bases, and alcohols.

Decomposition: Thermal decomposition can produce carbon monoxide, oxides of nitrogen, traces of cyanic acid, and MDI vapors.

Polymerization: Can occur when in contact with moisture, other materials which react with isocyanates, or temperatures above 400°F (204°C).

Storage, Disposal, and Spill Information

Storage and Handling: Store in steel drums in a cool, dry, well ventilated area away from sunlight. Prevent physical damage to containers.

Disposal Method: : Dispose of in accordance with Federal, State and Local regulations.

Steps to Be Taken in Case Material is Released or Spilled: Stay up wind. Remove all ignition sources. For small spills, absorb with sand or other absorbent material and place in a suitable container for later disposal. For large spills, dike area for a later disposal or reclamation.

Other Precautions: N/L

Precautionary Measures

Respiratory Protection: Use a NIOSH approved respirator for airborne concentrations in excess of the applicable exposure limits. In a confined area with inadequate ventilation, use a self-contained breathing apparatus.

Ventilation: Local and mechanical exhaust.

Protective Clothing: Neoprene or butyl rubber gloves, boots and apron.

Eye Protection: Face shield to prevent splashing in eyes and on face.

Other Protective Equipment: N/L

Work/Hygienic Practices: Wash with soap and water after contact with this material.

Health Related Data

Primary Route(s) of Entry: Eye and skin absorption, and inhalation.

Health Hazards: This material is a known skin and pulmonary sensitizer.

Eye Contact: Workplace vapors have produced reversible corneal epithelial edema impairing vision.

Skin Contact: Can cause skin sensitization.

Inhalation: Can cause pulmonary sensitization.

Ingestion: N/L

First Aid Procedures:

Eyes: Hold eyelids apart and flush eyes with water for 15 minutes. Get medical attention.

Skin: Remove contaminated clothing. Wash contaminated areas with soap and water. Get medical attention if irritation develops/persists.

Inhalation: Remove to fresh air.

Ingestion: Treat symptomatically. There is no specific antidote. Do not induce vomiting.

(Never give anything by mouth to an unconscious or convulsing person.)

Toxicity Data

N/L

The information on this MSDS is accurate to the best of Avanti International's knowledge. Avanti International makes no express or implied warranty, and in no case shall be liable for consequential, special or indirect damages resulting from the use or handling of this product.

N/A = Not Applicable

N/E = Not Established

N/D = Not Determined

N/L = Not Listed

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