



AV-275 Soilgrout

MATERIAL SAFETY DATA SHEET

Date Issued: 09/23/2014

1. PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: AV-275 Soilgrout
CLASSIFICATION: Hydrophobic Foam

SUPPLIER

Avanti International
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EMERGENCY TELEPHONE NUMBER

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2. COMPOSITION/INGREDIENT INFORMATION

Ingredient / CAS Number	Exposure Limits	Concentration
4.4'- Diphenylmethane Diisocyanate CAS #101-68-8	OSHA PEL: 0.2 ppm ACGIH TWA: 0.05 ppm	Trade Secret

3. HAZARDS IDENTIFICATION

HEALTH HAZARDS: Severe eye irritation, severe skin and upper respiratory irritation are possible, as well as headaches, shortness of breath and nausea.

EYES: As liquid or dust, exposure can be irritating to the eyes; with redness, tearing, blurred vision. Prolonged contact may cause corneal damage if left untreated.

SKIN: Exposure can cause redness swelling, scaling or blistering of the skin. Prolonged or repeated contact may cause moderate dermatitis.

INGESTION: May have corrosive effects on the lining of the mouth and stomach. May produce abdominal pain, nausea, diarrhea, and vomiting.

INHALATION: Exposure can cause upper respiratory tract irritation and pulmonary edema can occur after overexposure; pulmonary sensitization can occur in some individuals leading to asthma like spasms of the bronchial tubes and difficulty in breathing.

4. FIRST AID MEASURES

EYES: Flush with plenty of water for at least 15 minutes. Get immediate medical attention.

SKIN: Remove contaminated clothing. Wash affected areas thoroughly with soap and water. If irritation develops, consult a physician.

INHALATION: Remove to fresh air. If breathing has stopped administer artificial respiration. If breathing is difficult, administer oxygen and get medical attention. Asthma like symptoms may develop.

INGESTION: May have corrosive effects on the lining of the mouth and stomach; symptoms may include sore throat, abdominal pain, nausea, vomiting and diarrhea. Do not induce vomiting. If vomiting occurs, keep head below hips to prevent aspiration into lungs. Under the direction of medical personnel 1 to 2 cups of water or milk may be given to drink. Seek immediate medical attention. (Never give anything by mouth to an unconscious or convulsing person.)

5. FIRE AND EXPLOSION HAZARDS

FLASH POINT: C.O.C. 365°F (185°C)

EXTINGUISHING MEDIA: Dry chemical, carbon dioxide, foam, or water.

UNUSUAL FIRE OR EXPLOSION HAZARDS: Toxic fumes (carbon dioxide, carbon monoxide, nitrous oxide, traces of hydrogen cyanide, and MDI vapors) are released in fire situations. Downwind personnel must be evacuated. At temperatures >400°F polymeric MDI can polymerize and decompose which can build up pressure in closed containers making explosive rupture possible.

FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES: Notify safety personnel, isolate and ventilate the area. Stay up wind. Remove all ignition sources. For small spills, absorb with sand or other absorbents and place suitable containers for later disposal. For large spills, dike ahead for a later disposal or reclamation. For disposal, follow applicable federal, state, and local regulations.

7. HANDLING AND STORAGE

STORAGE: Store in a dry area between 60°F-85°F (16°-30°C).

HANDLING: Use only in well ventilated areas. Wear personal protective equipment. Empty containers of this material may be hazardous since they retain product residues. Keep containers securely sealed when not in use.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

ENGINEERING CONTROLS: Mechanical general/local exhaust to control vapor or mist below maximum exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain an eye wash fountain and quick drench facilities in the work area.

SKIN: Wear impervious clothing, including boots, gloves, and chemical safety goggles.

RESPIRATORY: : If exposure exceeds occupational exposure limits, use an appropriate NIOSH approved respirator.

OTHER PROTECTIVE EQUIPMENT: Use impervious rubber gloves and boots.

HYGIENE PRACTICES: Wash with soap and water after handling. Remove contaminated clothing and discard.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Dark brown viscous liquid with pungent odor

BOILING POINT: >404°F (207°C)

VAPOR PRESSURE: Not Listed

VISCOSITY: 40-60 cP @ 70°F (21°C)

SPECIFIC GRAVITY: 1.114(9.3lbs/gal)

DENSITY: (cured) 1,074 kg/m³ (8.96 obs/gal)

EVAPORATION RATE: Not determined.

SOLUBILITY: Insoluble, reacts rapidly with water to liberate carbon dioxide gas.

10. STABILITY AND REACTIVITY

STABILITY: Stable in sealed containers under recommended storage conditions.

HAZARDOUS POLYMERIZATION: Can occur with exposure to alkalis, amines, and metal compounds, or temperatures over 320°F (160°C).

INCOMPATIBILITY: Water, amines, alcohols, strong bases and metal compounds.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon dioxide, carbon monoxide, nitrous oxide, traces of hydrogen cyanide, and MDI vapors.

11. TOXICOLOGICAL INFORMATION

CARCINOGENICITY: No carcinogenic substances as defined by OSHA, NTP, or IARC.

IARC MONOGRAPHS: None

TERATOGENICITY: None Determined

REPRODUCTIVE TOXICITY: Not Determined

MUTAGENICITY: None Determined

SYNERGISTIC: None

OSHA REGULATED: No

12. ECOLOGICAL INFORMATION

Immiscible with water, but will react with water to product inert and non-biodegradable solids.

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local, state, and federal regulations.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Resin Compound.

HAZARD CLASS: N/A

UN NUMBER: N/A

PACKING GROUP: N/A

LABEL: N/A

PLACARD: N/A

NMFC (NATIONAL MOTOR FREIGHT CARRIERS)

FREIGHT CLASS: 55

15. REGULATORY INFORMATION

SARA TITLE III

SECTION 311/312: Immediate Health Hazard, Delayed Health Hazard, Reactive Hazard.

SECTION 313: 4,4' – Diphenylmethane Diisocyanate, CAS #101-68-8

CERCLA REPORTABLE QUANTITY: None

TSCA REGULATORY: All components of this product are either on the TSCA Inventory or exempt.

NFPA (NATIONAL FIRE PROTECTION AGENCY)

HEALTH: 3

FLAMMABILITY: 1

REACTIVITY: 0

SPECIAL: 0

16. OTHER INFORMATION

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