

Material Safety Data Sheet

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Product Identification

Product Name: AV-248 FLEXSEAL

Composition/Ingredient Information

Ingredient Name / CAS Number	Exposure Limits	Concentration
Dibutyl Maleate CAS #105-76-0	OSHA: Not established. ACGIH: Not established.	Trade Secret
Poly(oxyalkylene) Polyol CAS #Proprietary	OSHA: Not established ACGIH: Not established.	Trade Secret
4,4' – Diphenylmethane Diisocyanate CAS #101-68-8	OSHA PEL: 0.02 ppm ACGIH TLV: 0.02 ppm	Trade Secret
Higher Oligomers of MDI CAS #9016-87-9	OSHA: Not established ACGIH: Not established.	Trade Secret
Diphenylmethane Diisocyanate CAS #26447-40-5	OSHA: Not established. ACGIH: Not established.	Trade Secret

Hazards Information

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

Health Hazards: Chronic exposure can cause sensitization to product in some individuals, resulting in allergic symptoms of the lower respiratory tract, (asthma like) including wheezing, shortness of breath and breathing difficulties. Subsequent reactions may occur at or substantially below the exposure standard.

Eye Contact: Exposure can cause severe irritation, tearing, and inflammation.

Skin Contact: Exposure can cause dermatitis; either irritative or allergic. Sensitization may occur from repeated or intensive contact.

Ingestion: Ingestion of this product may cause vomiting, nausea, and abdominal pain.

Inhalation: Exposure can cause irritation of the mucous membranes of the nose, throat, and/or trachea, breathlessness, chest discomfort, difficult breathing, and reduced pulmonary function.

First Aid Measures

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

Skin: Wash thoroughly with soap and water. If irritation develops, consult a physician.

Inhalation: Remove to fresh air. If not breathing, administer artificial respiration. If breathing is difficult, administer oxygen. Seek immediate medical attention.

Ingestion: Do not induce vomiting. Rinse mouth vigorously. Give 16-24 oz. of water to drink. Keep person warm and seek immediate medical attention. (Never give anything by mouth to an unconscious or convulsing person.)

Fire and Explosion Hazards

Flash Point: >270°F (>132°C) COC

Flammable Limits: Not determined.

Extinguishing Media: Dry chemical, carbon dioxide or foam.

Special Fire Fighting Procedures: Wear self-contained breathing apparatus and full protective clothing.

Unusual Fire and Explosion Hazards: Toxic fumes (carbon dioxide, carbon monoxide, carbon dioxide, nitrogen oxides) are released in fire situations. Downwind personnel must be evacuated.

Accidental Release Measures

Spill or Leak Procedures: Eliminate all ignition sources and evacuate spill area. With adequate ventilation, cover with an inert absorbent material such as clay or vermiculite and transfer to a proper waste container. Wash the area with water containing detergent. Wear respirator and other protective equipment for protection of eyes and skin during cleanup.

Handling and Storage

Storage: Store in a dry area between 84.6°F-102.6°F (15°-25°C). Keep containers tightly closed. Do not let moisture into containers. Store away from incompatible materials. Avoid physical damage to containers.

Handling: Use only in well ventilated areas, unless used with recommended respiratory protection. Empty containers of this material may be hazardous when empty since they retain product residues; observe all warnings and precautions listed for the product.

Exposure Controls and Personal Protection

Respiratory Protection: Wear NIOSH approved respirator for airborne concentrations in excess of the applicable exposure limits in accordance with OSHA regulations.

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

Protective Clothing: Neoprene or butyl rubber gloves, boots, and apron, long-sleeve shirt and trousers.

Eye Protection: Use safety goggles and face shield to avoid splashing on face.

Other Protective Equipment: Impervious rubber gloves and boots.

Work/Hygienic Practices: Wash with soap and water after handling. Remove contaminated clothing and wash before next use. Drench system and eye wash facility in work area.

Physical and Chemical Properties

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

Boiling Point: 537.8°F (281°C)

Vapor Pressure (mm Hg @ 20°C): 0.0001

Vapor Density: Not Determined

Specific Gravity (water=1): 1.114 (+0.005)

Melting Point: Not determined

Evaporation Rate (butyl acetate): Not determined

Solubility in Water: Not soluble

Stability and Reactivity

Stability: Stable in sealed containers at room temperature.

Incompatibility (materials to avoid): Water, amines, strong bases, and alcohols.

Hazardous Decomposition Products: Carbon dioxide, carbon monoxide, carbon dioxide, nitrogen oxides, 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).

Toxicological Information

Carcinogenicity: No NPT-n/a.

IARC monographs: Class 2

Teratogenicity: None

Reproductive Toxicity: Oral (mouse) LOEL for embryo/fetotoxicity 1300/mg/kg/day.

Mutagenicity: None

Synergistic products: None

OSHA regulated: No

Ecological Information

None listed.

Disposal Considerations

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

Transport Information

Proper Shipping Name: Non-Regulated Caulking Compound
 DOT Hazard Classification: None
 UN/NA Number: None
 Packaging Group: None
 Freight Class: None
 DOT Labels Required: None
 DOT Placards Required: None

Regulatory Information

	TSCA	SARA 302		SARA 313	CERCLA	RCRA	TSCA
		RQ	TPQ	LIST		261.33	8(d)
Dibutyl Maleate (105-76-0):	Yes	No	No	No	No	No	No
Poly(oxyalkylene) Polyol (Proprietary):	No	No	No	No	No	No	No
4,4'-Diphenylmethane Diisocyanate (101-68-8):	Yes	No	No	Yes	5000	No	Yes
Higher Oligomers of MDI (9016-87-9):	No	No	No	No	No	No	No
Diphenylmethane Diisocyanate (26447-40-5):	No	No	No	No	No	No	No

Other Information

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