

AV-118 Duriflex
MATERIAL SAFETY DATA SHEET



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1. PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: AV-118 Duriflex
CLASSIFICATION: Chemically Activated Gel

MANUFACTURER
Avanti International
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2. COMPOSITION/INGREDIENT INFORMATION

Ingredient / CAS Number	Exposure Limits	Concentration
Water CAS #7732-18-5	OSHA: Not established ACGIH: Not established	Trade Secret
N,N' Methylolacrylamide CAS #924-42-5	OSHA: Not established ACGIH: Not established	Trade Secret
Acrylamide CAS #79-06-1	OSHA PEL: 0.03 mg/m ³ ACGIH TWA: 0.03 mg/m ³	Trade Secret
Formaldehyde CAS #50-00-0	OSHA TWA: 0.75 ppm ACGIH TLV: 0.3 ppm	Trade Secret
N,N-Methylenebisacrylamide CAS #110-26-9	OSHA: Not established ACGIH: Not established	Trade Secret

3. HAZARDS IDENTIFICATION

HEALTH HAZARDS: Delayed chronic health hazard. Prolonged contact may cause muscle weakness, bluish cold hands, peeling of the palms, pain, numbness, and a tingling sensation in the limbs. Accumulative effects may lead to central nervous system disturbances.

EYE CONTACT: Exposure can cause conjunctival irritation, corneal injury, and burning of the eyes.

SKIN CONTACT: Exposure can cause irritation, reddening, and peeling.

INGESTION: May be harmful if swallowed. If accidentally swallowed, burns or irritation to mucous membranes, esophagus or GI tract can result.

INHALATION: Harmful if inhaled. Exposure can cause irritation and/or burns to nose, throat and lungs.

4. FIRST AID MEASURES

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

SKIN: Wash thoroughly with soap and water, flushing for at least 15 minutes. Remove all contaminated clothing and wash or clean prior to reuse. If irritation develops, consult a physician.

INHALATION: Remove to fresh air. If breathing is difficult, administer oxygen and get medical attention.

INGESTION: Drink 1-2 glasses of water and induce vomiting. Keep person warm and seek medical attention. CAUTION: Aspiration of material into the lungs due to vomiting can cause chemical pneumonitis. NOTE: Never give anything by mouth to an unconscious or convulsing person.

5. FIRE AND EXPLOSION HAZARDS

FLASH POINT: >93.34°C (>200.01°F)

AUTOIGNITION TEMPERATURE: Not available

FLAMMABLE LIMITS: Not determined

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

PROTECTIVE EQUIPMENT: Wear self-contained breathing apparatus and full protective clothing.

SPECIAL FIRE FIGHTING PRECAUTIONS: Fire-exposed containers may generate dangerous internal pressures and potentially rupture.

6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES: Wear appropriate protective gear. Eliminate all ignition sources and evacuate spill area. With adequate ventilation, cover with an inert absorbent material such as sand or vermiculite and transfer to a proper waste container. Large amounts, keep people away from and upwind of spill/leak.

SMALL SPILLS: Soak up with inert absorbent material and collect in a waste container for disposal.

LARGE SPILLS: Use water spray to disperse vapors and flush spill area. Pump any free liquid into an appropriate closed container. If recovery is not possible, catalyze substance to form a gel. Clean contaminated surface thoroughly with large amounts of water.

ENVIRONMENTAL: Do not allow material to contaminate surface or ground water. Dike area to prevent runoff. Prevent product from entering drains.

7. HANDLING AND STORAGE

HANDLING: Use only in well ventilated areas, unless used with recommended respiratory protection. Always use appropriate personal protective equipment.

STORAGE: DO NOT reuse empty containers without commercial cleaning. Store in a cool, dry environment in original or similar container. Protect from freezing. Keep containers tightly closed when not in use to prevent contamination or contact with moisture. Do not reseal if contamination is suspected.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

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

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear chemical goggles and face shield to avoid splashing on face.

SKIN: Wear chemically resistant impervious rubber gloves and boots, long-sleeve shirt and trousers.

RESPIRATORY: If exposure exceeds occupational exposure limits, use an appropriate NIOSH approved respirator. In case of spill or leak resulting in unknown concentration, use a NIOSH approved supplied air respirator.

OTHER PROTECTIVE EQUIPMENT: Provide eyewash fountain and quick drench facilities in close proximity to points of potential exposure.

HYGIENE PRACTICES: Wash with soap and water after handling. Remove contaminated clothing and wash before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Colorless liquid with slight formaldehyde odor

pH: 5.5-7.0

FREEZING POINT: Not available

BOILING POINT: Approx. 101°C (214°F) @ 760 mm Hg

EVAPORATION RATE: Not available

VAPOR PRESSURE: <17 hPa @ 25°C (77°F)

SPECIFIC GRAVITY: Not available

SOLUBILITY IN WATER: Dispersible

10. STABILITY AND REACTIVITY

STABILITY: Normally stable but will polymerize at high temperatures with some evolution of heat.

MATERIALS TO AVOID: Aluminum, iron, copper, bases, acids, oxidizing agents, chelating agents, and peroxides.

HAZARDOUS DECOMPOSITION PRODUCTS: Formaldehyde and oxides of carbon and nitrogen.

HAZARDOUS POLYMERIZATION: Hazardous polymerization is not expected to occur.

11. TOXICOLOGICAL INFORMATION

CARCINOGENICITY: Not determined. Acrylamide and Formaldehyde are considered probable or suspected human carcinogens by OSHA, NTP, IARC, and ACGIH. Formaldehyde is a chemical known to the State of California to cause cancer.

ORAL LD50 (rat)

N-Methylolacrylamide: 474 mg/kg

Acrylamide: 170 mg/kg

Formaldehyde: 800 mg/kg

N,N-Methylenebisacrylamide: 390 mg/kg

DERMAL LD50 (rabbit)

N-Methylolacrylamide: 1,800 mg/kg

Acrylamide: N/A

Formaldehyde: 270 mg/kg

N,N-Methylenebisacrylamide: N/A

12. ECOLOGICAL INFORMATION

Not determined.

13. DISPOSAL CONSIDERATIONS

Recover free liquid. Absorb residue and dispose of in accordance with local, state, and federal regulations.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Stabilizer, Liquid Resin Non-Regulated

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: 70

15. REGULATORY INFORMATION**SARA TITLE III**

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

SECTION 313:

Acrylamide: <5%

N-Methylolacrylamide: <50%

Formaldehyde: <5%

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

OSHA: This material is a health hazard and/or physical hazard as determined when reviewed according to the requirements of the OSHA 29 CFR Part 1910.1200 Hazard Communication Standard.

16. OTHER INFORMATION

The information on this MSDS is accurate to the best of Avanti International's knowledge. Avanti International makes no expressed 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.