

AV-333 Injectaflex
MATERIAL SAFETY DATA SHEET



Date Issued: 07/01/2014

1. PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: AV-333 Injectaflex

CLASSIFICATION: Hydrophilic Foam

SUPPLIER

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EMERGENCY TELEPHONE NUMBER

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2. COMPOSITION/INGREDIENT INFORMATION

Ingredient / CAS Number	Exposure Limits	Concentration
Toluene 2,4-Diisocyanate CAS #584-84-9	OSHA PEL: 0.02 ppm ACGIH TWA: 0.005 ppm	Trade Secret
Toluene 2,6-Diisocyanate CAS #91-08-7	OSHA PEL: 0.02 ppm ACGIH TWA: 0.005 ppm	Trade Secret
Acetone CAS #67-64-1	OSHA PEL: 750 ppm ACGIH TWA: 750 ppm	Trade Secret

3. HAZARDS IDENTIFICATION

HEALTH HAZARDS:

EYE CONTACT: Vapors are irritating to the eyes. Splashes may cause severe irritation with redness, tearing, and blurred vision.

SKIN CONTACT: Exposure can cause defatting, redness, swelling, drying and cracking 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 cause abdominal pain, nausea, diarrhea, and vomiting.

INHALATION: Exposure can cause upper respiratory tract irritation. May cause dizziness coughing, dullness, and headache. Higher concentrations can produce Central Nervous System depression, narcosis, and unconsciousness. Prolonged or repeated overexposure may cause blood disorders, gastrointestinal disturbances and lung damage; kidneys, liver, and nervous system may be affected.

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. Reaction can occur with dermal moisture.

INHALATION: Move to fresh air in case of accidental inhalation of vapors. Consult a physician.

INGESTION: If victim is conscious, induce vomiting immediately and call a physician. Never give anything by mouth to an unconscious or convulsing person.

5. FIRE AND EXPLOSION HAZARDS

FLASH POINT: 10.4°F (-12°C) (ASTM D-93)

FLAMMABLE LIMITS: Not determined

EXTINGUISHING MEDIA: CO₂, foam, dry powder, or Halon

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

SPECIAL FIRE FIGHTING PRECAUTIONS: Smoke, carbon dioxide and nitrogen oxides will develop at combustion. Damps spread horizontally at ground level. Eliminate sources of ignition. Provide adequate ventilation.

6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES: Eliminate all ignition sources and evacuate spill area. Use adequate ventilation. Keep away from heat or flame. Absorb the material with inert substance, such as sand and collect in a waste container for disposal.

OTHER PRECAUTIONS: Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing.

7. HANDLING AND STORAGE

HANDLING: Use only in well ventilated areas, unless used with recommended respiratory protection. Empty containers contain residue; observe all precautions and warnings listed for the product.

STORAGE: Keep in a tightly closed container to prevent moisture contact. Store below 80°F in a dry place away from heat.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

ENGINEERING CONTROLS: Local exhaust.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Safety glasses are recommended.

SKIN: Wear long pants and long sleeved work shirt. Wear insoluble type (Neoprene) gloves.

RESPIRATORY: If exposure exceeds occupational exposure limits, use an appropriate NIOSH approved full-face piece respirator, half-face piece respirator with splash goggles, or powered, filtered air-supplied hood.

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: Transparent brown liquid with slight acetone odor

BOILING POINT: 132°F

MELTING POINT: N/A

SPECIFIC GRAVITY: 1.023

SOLUBILITY IN WATER: Unlimited @ 68°F

10. STABILITY AND REACTIVITY

STABILITY: Stable in sealed containers under normal conditions.

CONDITIONS TO AVOID: Storage of open or sealed containers in moist or wet environment.

MATERIALS TO AVOID: Water, alcohols, amines and strong bases.

DECOMPOSITION PRODUCTS: Carbon oxides, nitrogen oxides and hydrocarbons.

POLYMERIZATION: Possible.

11. TOXICOLOGICAL INFORMATION

CARCINOGENICITY: Toluene Diisocyanate is considered a potential carcinogen by NTP and IARC, and listed under California Proposition 65.
TERATOGENICITY: None Determined
REPRODUCTIVE TOXICITY: Acetone is being investigated as a reproductive effector, a tumorigen, and a mutagen.
MUTAGENICITY: None Determined
SYNERGISTIC PRODUCTS: None
OSHA REGULATED: Yes

12. ECOLOGICAL INFORMATION

When released into the soil, this material is expected to readily biodegrade. If released into the soil without catalysts, this material is expected to leach into the groundwater. When released into the soil, the acetone portion will evaporate quickly. When released into water polymerization may occur. The acetone is expected to disperse and quickly evaporate. This material is not expected to be toxic to aquatic life. For acetone, the LC50/96 hour values for fish are over 100 mg/l.

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION**DOT (DEPARTMENT OF TRANSPORTATION)**

PROPER SHIPPING NAME: Flammable Liquid, N.O.S. (contains Acetone)
HAZARD CLASS: 3
UN NUMBER: UN1993
PACKING GROUP: II
LABEL: Flammable Liquid 3
PLACARD: Flammable Liquid 3
NMFC (NATIONAL MOTOR FREIGHT CARRIERS)
FREIGHT CLASS: 55

15. REGULATORY INFORMATION**SARA TITLE III**

SECTION 313: Delayed Health Hazard

CERCLA REPORTABLE QUANTITY

Acetone: None
2,4 Toluene Diisocyanate: 100 lbs.
2,6 Toluene Diisocyanate: 100 lbs.

THRESHOLD PLANNING QUANTITY

2,4 Toluene Diisocyanate: 500 lbs.
2,6 Toluene Diisocyanate: 100 lbs.

RCRA STATUS

Acetone: U002
2,4 Toluene Diisocyanate: U223
2,6 Toluene Diisocyanate: U223

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

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.