



6143 North 60<sup>th</sup> Street  
Milwaukee, WI 53218 USA  
800.626.7833 www.chimerx.com  
Date: 6/5/14

## Material Safety Data Sheet

---

Product Name: Ava I  
Product Number: 2020  
Chemical Name: N/A  
Chemical formula: N/A

### Chemical Information

Glycerol	50%	Cas. # 56-81-5
Tris-HCl	<1%	Cas. # 77-86-1
EDTA	<1%	Cas. # 60-00-42
2-mercaptoethanol	<1%	Cas. # 60-24-2
BSA	<1%	Cas. # None
Triton X-100 Surfactant	<1%	Cas. # 9002-93-1

### Hazardous Ingredients

- 50% GLYCEROL
- NO OTHER KNOWN HAZARDS ARE ASSOCIATED WITH THIS PRODUCT. ALL INFORMATION CONTAINED HEREIN REFERS TO HAZARDS ASSOCIATED WITH 50% GLYCEROL.

### Health Hazard Data

- IRRITATING TO EYES AND SKIN
- TARGET ORGAN(S): KIDNEYS
- IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.
- WEAR SUITABLE PROTECTIVE CLOTHING

### First Aid Measures

- IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES OR SKIN WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES.
- IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS. CALL A PHYSICIAN.
- IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.

### Fire Fighting Measures

#### EXTINGUISHING MEDIA

- WATER SPRAY
- CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM
- WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.
- EMITS TOXIC FUMES UNDER FIRE CONDITIONS



6143 North 60<sup>th</sup> Street  
Milwaukee, WI 53218 USA  
800.626.7833 www.chimerx.com  
Date: 6/5/14

### Accidental Release Measures

- WEAR RESPIRATOR, CHEMICAL SAFETY GOGGLES, RUBBER BOOTS AND HEAVY RUBBER GLOVES. ABSORB ON SAND OR VERMICULITE AND PLACE IN CLOSED CONTAINERS FOR DISPOSAL.
- VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.

### Exposure Controls/Personal Protection

- WEAR APPROPRIATE NIOSH/MSHA-APPROVED RESPIRATOR, CHEMICAL-RESISTANT GLOVES, SAFETY GOGGLES, AND OTHER PROTECTIVE CLOTHING
- MECHANICAL EXHAUST REQUIRED
- SAFETY SHOWER AND EYE BATH
- DO NOT BREATHE VAPOR. AVOID CONTACT WITH EYES, SKIN AND CLOTHING.
- AVOID PROLONGED OR REPEATED EXPOSURE. WASH THOROUGHLY AFTER HANDLING. WASH CONTAMINATED CLOTHING BEFORE REUSE. KEEP TIGHTLY CLOSED. STORE IN A COOL DRY PLACE.

### Physical and Chemical Properties

#### PHYSICAL PROPERTIES

SOLUBILITY: Water-Soluble  
pH: 5.5 – 8

SPECIFIC GRAVITY: 1.13 g/ml  
APPEARANCE: Colorless Liquid

### Stability and Reactivity

#### CONDITIONS TO AVOID

- PROTECT FROM MOISTURE

#### INCOMPATIBILITIES

- PROTECT FROM MOISTURE
- STRONG OXIDIZING AGENTS
- STRONG BASES

#### HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS

- CARBON MONOXIDE, CARBON DIOXIDE

#### HAZARDOUS POLYMERIZATION

- WILL NOT OCCUR

### Toxicological Information

#### ACUTE EFFECTS

- MATERIAL MAY BE IRRITATING TO MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT.
- MAY BE HARMFUL BY INHALATION, INGESTION, OR SKIN ABSORPTION.
- CAUSES EYE AND SKIN IRRITATION.
- PROLONGED EXPOSURE CAN CAUSE: NAUSEA, HEADACHE AND VOMITING
- TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

#### CHRONIC EFFECTS

- TARGET ORGAN(S): KIDNEYS