

**MATERIAL SAFETY DATA SHEET**

PAGE 1

**IDENTIFICATION**

**PRODUCT NAME** VECTASHIELD® Hard+Set™  
**CATALOG NO.** H-1400

**HAZARDOUS INGREDIENTS**

**MATERIAL** Glycerol

**% BY WEIGHT** 85%

**HAZARD DATA** Toxicity data: orl-rat LD50: 12600mg/kg  
orl-gpg LD50: 7750mg/kg  
scu-rat LD50: 100mg/kg

**RTECS #:** MA8050000  
**CAS #:** 56-81-5

**PHYSICAL DATA**

**APPEARANCE** Colorless liquid  
**SOLUBILITY IN WATER** Miscible  
**SPECIFIC GRAVITY** 1.26  
**MELTING POINT** 17.8 deg C  
**BOILING POINT** 290 deg C  
**EVAPORATION RATE** n/a

**FIRE AND EXPLOSION HAZARD DATA**

**FLASH POINT** 176 deg C  
**FLAMMABLE LIMITS IN AIR** n/a  
**EXTINGUISHING MEDIA** Alcohol foam, carbon dioxide, dry chemical  
**SPECIAL FIREFIGHTING PROCEDURES** Wear proper protective clothing and self contained breathing apparatus.  
**UNUSUAL FIRE AND EXPLOSION HAZARDS** Toxic fumes may be emitted under fire conditions.

**HEALTH HAZARD DATA**

**THRESHOLD LIMIT VALUE** 10mg/m3  
**ACUTE EFFECTS OF OVEREXPOSURE** Headache, nausea  
**EMERGENCY AND FIRST AID PROCEDURES** Wash affected area thoroughly with water. Irrigate eyes for at least 15 min. If inhaled, remove to fresh air. Call a physician immediately.  
**SKIN CONTACT** May cause dermatitis  
**EYE CONTACT** May cause irritation  
**INHALATION** May cause irritation  
**INGESTION** Harmful if swallowed

**REACTIVITY DATA**

**STABILITY** Stable  
**MATERIALS TO AVOID** Strong oxidizers  
Strong bases  
**HAZARDOUS POLYMERIZATION** Will not occur  
**HAZARDOUS DECOMPOSITION PRODUCTS** Carbon monoxide, carbon dioxide

CONTINUED ON NEXT PAGE

**MATERIAL SAFETY DATA SHEET**

PAGE 2

**IDENTIFICATION**

**PRODUCT NAME** VECTASHIELD® Hard+Set™  
**CATALOG NO.** H-1400

**SPILL OR LEAK PROCEDURES**

**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED** Flush to sewer if allowed or collect on absorbent and dispose in approved land fill.

**WASTE DISPOSAL METHOD** Flush to sewer if allowed or mix with a combustible solvent to be burned in a federal or state approved waste disposal chemical incinerator.

**SPECIAL PROTECTION INFORMATION**

**RESPIRATORY PROTECTION** Approved organic vapor respirator  
**VENTILATION** Use only with adequate ventilation.  
**PROTECTIVE GLOVES NEEDED** Yes  
**EYE PROTECTION NEEDED** Yes

**SPECIAL PRECAUTIONS**

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE** Store in a cool dry place. Hygroscopic.

**CAUTION:** CONTACT WITH STRONG OXIDIZING AGENTS SUCH AS HYDROGEN/ SODIUM PEROXIDE, CHLORINE, SODIUM HYPOCHLORITE, POTASSIUM CHLORATE OR POTASSIUM PERMANGANATE MAY PRODUCE EXPLOSION.

The information contained in this Material Safety Data Sheet is believed to be accurate but it is the responsibility of the user to determine the applicability of these data to the formulation of necessary safety precautions. Vector Laboratories Inc. shall not be held responsible for any damage resulting from the use of the above product or the information contained in this Material Safety Data Sheet.

3/03