



**CM13**  
Catalog number: PH020L, PH020P

**Antibody Design Labs**  
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## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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**PRODUCT NAME:** CM13 Helper Phage  
**PRODUCT CODE:** PH020L, PH020P

**MANUFACTURER:** Antibody Design Labs  
**ADDRESS:** 4901 Morena Blvd, Suite 203  
San Diego, CA 92117

**EMERGENCY PHONE:** (858) 480-6213  
**OTHER CALLS:** (877) 223-3104

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## SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

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**INGREDIENT NAME:** GLYCEROL  
**SYNONYMS:** GLYCERIN  
**CHEMICAL FORMULA:** C<sub>3</sub>H<sub>8</sub>O<sub>3</sub>  
**CAS No.:** 56-81-5  
**% WT:** N/A  
**% VOL:** 50%  
**RTECS #:** MA8050000  
**SARA 313:** No

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## SECTION 3: HAZARDS IDENTIFICATION

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### EMERGENCY OVERVIEW:

**ROUTES OF ENTRY:** Inhalation: YES Skin: YES Ingestion: YES

**CARCINOGENICITY:** None reported

### POTENTIAL HEALTH EFFECTS

**ACUTE HEALTH HAZARDS:** ACUTE:MAY BE HARMFUL BY INHALATION, INGESTION OR SKIN ABSORPTION. CAUSES EYE IRRITATION. MAY CAUSE SKIN IRRITATION.

**CHRONIC HEALTH HAZARDS:** PROLONGED EXPOSURE CAN CAUSE: NAUSEA, HEADACHE & VOMITING. TARGET ORGAN DATA:BEHAVIO RAL (HEADACHE); GASTROINTESTINAL (NAUSEA OR VOMITING); PATERNAL EFFECTS (SPERMATOGENESIS; TESTES, (EFTS OF OVEREXP).

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** NONE SPECIFIED BY MANUFACTURER.

### HMS RATING

**HEALTH:** 1  
**FLAMMABILITY:** 0  
**REACTIVITY:** 1

### NFPA RATING

**HEALTH:** 1  
**FLAMMABILITY:** 0

REACTIVITY: 0

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#### SECTION 4: FIRST AID MEASURES

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**EYES:** IMMEDIATELY FLUSH W/COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES.

**SKIN:** IMMEDIATELY FLUSH W/COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING & SHOES. WASH CONTAMINATED CLOTHING BEFORE REUSE.

**INGESTION:** WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS. CALL MD.

**INHALATION:** REMOVE TO FRESH AIR. IF NOT BREATHING. GIVE ARTF RESP. IF BREATHING IS DIFFICULT, GIVE OXYGEN.

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#### SECTION 5: FIRE-FIGHTING MEASURES

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**FLASH POINT:**

F: 320°F

C: 160°

**EXTINGUISHING MEDIA:** WATER SPRAY, CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM.

**SPECIAL FIRE FIGHTING PROCEDURES:** USE NIOSH/MSHA APPROVED SCBA & FULL PROTECTIVE EQUIPMENT .

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

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#### SECTION 6: ACCIDENTAL RELEASE MEASURES

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**PROCEDURE(S) OF PERSONAL PRECAUTION(S):** EXERCISE APPROPRIATE PRECAUTIONS TO MINIMIZE DIRECT CONTACT WITH SKIN OR EYES AND PREVENT INHALATION OF VAPORS. WEAR DISPOSABLE COVERALLS AND DISCARD THEM AFTER USE.

**METHODS FOR CLEANING UP:** ABSORB ON SAND AND PLACE IN CLOSED CONTAINER FOR DISPOSAL. VENTILATE AND WASH SPILL SITE AFTER MATERIALS [ICKU]S IS COMPLETE.

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#### SECTION 7: HANDLING AND STORAGE

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**HANDLING AND STORAGE:** AVOID INHALATION, EYES AND SKIN CONTACTS AND REPEATED EXPOSURE.

**OTHER PRECAUTIONS:** KEEP TIGHTLY CLOSED.

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#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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**ENGINEERING CONTROLS:** EYE WASH FOUNTAIN & DELUGE SHOWER WHICH MEET ANSI DESIGN CRITERIA .

**VENTILATION :** MECHANICAL EXHAUST REQUIRED.

**RESPIRATORY PROTECTION:** WEAR APPROPRIATE NIOSH/MSHA APPROVED RESPIRATOR.

**EYE PROTECTION:** ANSI APPROVED CHEM WORKERS GOGGLES .

**SKIN PROTECTION:** CHEMICAL-RESISTANT GLOVES.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** WEAR SUITABLE PROTECTIVE CLOTHING.

**WORK HYGIENIC PRACTICES:** WASH THOROUGHLY AFTER HANDLING.

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#### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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**APPEARANCE:** VISCOUS COLOLESS LIQUID.

**BOILING POINT:**

F:

C: 182°C

**MELTING POINT:**

F:  
C: 20°C  
**FREEZING POINT:**  
F:  
C:  
**VAPOR PRESSURE (mmHg):** <1  
@  
F:  
C: 20C  
**VAPOR DENSITY (AIR = 1):** 3.1  
**SPECIFIC GRAVITY (H2O = 1):** 1.261

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## SECTION 10: STABILITY AND REACTIVITY

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**STABILITY:** STABLE

**INCOMPATIBILITY (MATERIAL TO AVOID):** STRONG OXIDIZING AGENTS, STRONG BASES. VIOLENT/EXPLO REACTIONS HAVE OCCURRED UPON DIRECT CONT OF GLYCEROL W/SODIUM (SUPDAT)

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** CARBON MONOXIDE, CARBON DIOXIDE.

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## SECTION 11: TOXICOLOGICAL INFORMATION

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**TOXICOLOGICAL INFORMATION:** GLYCEROL RTECS #: MA8050000. IRRIT DATA: SKIN-RBT 500 MG/24H MLD 85JCAE -,207,1986. EYE-RBT 126 MG MLD BIOFX 9-4/1970. EYE-RBT 500 MG/24H MLD 85JCAE -,207,1986. TOXICITY DATA -  
ORL-RAT LD50:1260 MG/KG FEPRA7 1,142,1945. IHL-RAT LC50:>570 MG/M3/1H BIOFX 9-4/1970. IPR-RAT LD50:4420 MG/KG RCOCB8 56,125,1987. SCU-RAT LD50:100 MG/KG NIIRDN 6,215,1982. IVN-RAT LD50:5566 MG/KG ARZNAD 26,1581,1976. ORL-MU S LD50:4090 MG/KG FRZKAP (6),56,1977. IPR-MUS LD50:8700 MG/KG ARZNAD 28,1579,1978. SCU-MUS LD50:91 MG/KG NIIRDN 6,215,1982. IVN-MUS LD50:4250 MG/KG JAPMA8 39,583,1950. ORL-RBT LD50:27 G/KG DMDJAP 31,2 76,1959.

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## SECTION 12: ECOLOGICAL INFORMATION

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DATA NOT AVAILABLE

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## SECTION 13: DISPOSAL CONSIDERATIONS

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**WASTE DISPOSAL METHOD:** DISSOLVE OR MIX THE MATERIAL WITH A COMBUSTIBLE SOLVENT AND BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER. OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

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## SECTION 14: TRANSPORT INFORMATION

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**DOT**

PROPER SHIPPING NAME: NONE

**U.S. DEPARTMENT OF TRANSPORTATION:** NON-HAZARDOUS FOR TRANSPORT.

**IATA:** NON-HAZARDOUS FOR AIR TRANSPORT.

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## SECTION 15: REGULATORY INFORMATION

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**UNITED STATES REGULATORY INFORMATION**

SARA LISTED: NO

**U.S. CLASSIFICATION AND LABEL TEXT:**

CAUTION: AVOID CONTACT AND INHALATION. TARGET ORGAN(S): KIDNEY.

**CANADA REGULATORY INFORMATION**

WHMIS CLASSIFICATION: THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CPR, AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR.

DSL: NO

NDSL: NO

**EUROPEAN CLASSIFICATION:** IRRITANT. R 36/38 IRRITATING TO EYES AND SKIN. S 26 IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE. S 36 WEAR SUITABLE PROTECTIVE C LOTHING.

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## **SECTION 16: OTHER INFORMATION**

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**DISCLAIMER:** THIS MATERIAL IS SOLD FOR RESEARCH AND DEVELOPMENT PURPOSES ONLY. IT IS NOT FOR ANY HUMAN OR ANIMAL THERAPEUTIC OR CLINICAL DIAGNOSTIC USE. IT IS NOT INTENDED FOR FOOD, DRUG, HOUSEHOLD, AGRICULTURAL, OR COSMETIC USE. AN INDIVIDUAL TECHNICALLY QUALIFIED TO HANDLE POTENTIALLY HAZARDOUS CHEMICALS MUST SUPERVISE THE USE OF THIS MATERIAL.

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