SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: TG1 Phage Competent Cells
PRODUCT CODE: PC001
MANUFACTURER: Antibody Design Labs
ADDRESS: 4901 Morena Blvd, Suite 203
San Diego, CA 92117
EMERGENCY PHONE: (858) 480-6213
OTHER CALLS: (877) 223-3104
FAX PHONE: (858) 272-6004

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT NAME: GLYCEROL
SYNONYMS: GLYCERIN
CHEMICAL FORMULA: C3H8O3
CAS No.: 56-81-5
% WT: N/A
% VOL: 10-20%
RTECS #: MA8050000
SARA 313: No

The product contains no substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

SECTION 3: HAZARDS IDENTIFICATION

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. MAY CAUSE EYE IRRITATION. MAY CAUSE SKIN IRRITATION.

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

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

HMIS RATING
SECTION 4: FIRST AID MEASURES

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. DO NOT INDUCE VOMITING WITHOUT MEDICAL ADVICE.

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

SECTION 5: FIRE-FIGHTING MEASURES

FLASH POINT:
F: 320ºF
C: 160º

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.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PROCEDURE(S) OF PERSONAL PRECAUTION(S): EXERCISE APPROPRIATE PRECAUTIONS TO MINIMIZE DIRECT CONTACT WITH SKIN OR EYES AND PREVENT INHALATION OF VAPORS. WEAR DISPLOSABLE 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.

SECTION 7: HANDLING AND STORAGE

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

OTHER PRECAUTIONS: KEEP TIGHTLY CLOSED.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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.
SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: VISCUS COLOLESS LIQUID.

BOILING POINT:
F: 
C: 182ºC

MELTING POINT:
F: 
C: 20ºC

FREEZING POINT:
F: 
C: 

VAPOR PRESSURE (mmHg): <1 @
F: 
C: 20ºC

VAPOR DENSITY (AIR = 1): 3.1

SPECIFIC GRAVITY (H2O = 1): 1.261

SECTION 10: STABILITY AND REACTIVITY

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.

SECTION 11: TOXICOLOGICAL INFORMATION


SECTION 12: ECOLOGICAL INFORMATION

DATA NOT AVAILABLE

SECTION 13: DISPOSAL CONSIDERATIONS

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.

SECTION 14: TRANSPORT INFORMATION

DOT
PROPER SHIPPING NAME: NONE

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

IATA: NON-HAZARDOUS FOR AIR TRANSPORT.

SECTION 15: REGULATORY INFORMATION
UNITED STATES REGULATORY INFORMATION
SARA LISTED: NO

U.S. CLASSIFICATION AND LABEL TEXT:
CAUTION: AVOID CONTACT AND INHALATION. TARGET ORGAN(S): KIDNEY.

CALIFORNIA PROPOSITION 65
THIS PRODUCT DOES NOT CONTAIN CHEMICALS LISTED UNDER PROPOSITION 65.

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 IRITATING 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 CLOTHING.

SECTION 16: OTHER INFORMATION

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.

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO BE ALL-INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. ALL MATERIALS AND MIXTURES MAY BE PRESENT UNKNOWN HAZARDS AND SHOULD BE USED WITH CAUTION. ANTIBODY DESIGN LABS SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT. THE INFORMATION IN THIS MSDS DOES NOT CONSTITUTE A WARRANTY, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.