

CyGEL Material Safety Data Sheet

This material data sheet has been prepared to the ANSI standard format

Section 1. Chemical product and company identification

common name: CyGEL

manufacturer: Biostatus Limited, 56 Charnwood Road, Shepshed, Leicestershire LE12 9NP United Kingdom; tel: +44 1509 558 163; fax +44 1509 651 061; email; enquiry@biostatus.com ; web: www.biostatus.com

Section 2. Composition/information on ingredients

chemical name: OXIRANE, METHYL-, POLYMER

CAS number: 9003-11-6

formulation: supplied at 100 strength and 125 strength in Phosphate Buffered Saline (PBS)

% content: >98%

Section 3. Hazards identification

most important hazard: THIS PRODUCT MAY CONTAIN TRACE AMOUNTS OF ETHYLENE OXIDE, PROPYLENE OXIDE AND 1,4-DIOXANE, CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND/OR BIRTH DEFECTS OR REPRODUCTIVE HARM

risk phrases: R40/20/21/22 Harmful: possible risk of irreversible effects through inhalation and in contact with skin and if swallowed

safety phrases: S36/37/39: Wear suitable protective clothing, gloves and eye/face protection

Section 4. First aid measures

skin contact: WASH WITH SOAP & WATER; THEN FLUSH WITH WATER UNTIL CHEMICAL IS REMOVED

eye contact: EYE-FLUSH PROMPTLY WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. IF IRRITATION DEVELOPS, GET MEDICAL HELP

ingestion: IF CONSCIOUS, INDUCE VOMITING AS DIRECTED BY DOCTOR, IMMEDIATELY GET MEDICAL HELP

inhalation: REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT, GIVE OXYGEN. GET MEDICAL ATTENTION IF SYMPTOMS PERSIST

Section 5. Fire fighting measures

NONE

Section 6. Accidental release measures

neutralizing agent: WATER PLUS DISH SOAP

methods for cleaning: WEAR PROTECTIVE EQUIPMENT. WIPE OR MOP UP AND PLACE IN A CONTAINER FOR DISPOSAL. FLUSH RESIDUE AWAY WITH COLD WATER. NON POROUS SURFACE CONTAMINATION MAY BE REMOVED USING COLD WATER

Section 7. Handling and storage

handling: LABORATORY COAT, RUBBER GLOVES AND SAFETY GOGGLES

storage: STORE AT +4°C. DO NOT FREEZE. PROTECT CONTAINER FROM PHYSICAL DAMAGE

Section 8. Exposure controls/personal protection

personal protection equipment: laboratory coat

eye protection: safety goggles

hand protection: rubber gloves

safety phrases: S36/37/39: Wear suitable protective clothing, gloves and eye/face protection

Section 9. Physical and chemical properties

appearance: CLEAR, TRANSPARENT SOLUTION OR GEL

Section 10. Stability and reactivity

STABLE SOLUTION

Not corrosive, non-oxidising, no known hazardous decomposition products

Section 11. Toxicological information

rabbit, primary skin irritation: SLIGHTLY IRRITATING

rat, oral LD₅₀: > 15g/Kg: PRACTICALLY NON-TOXIC

rabbit, corneal anaesthetic activity: NEGATIVE. NO CORNEAL ANAESTHETIC ACTIVITY

rabbit, assay for pyrogenic substances: NEGATIVE. PYROGEN FREE

ames salmonella assay (direct plate): NEGATIVE, (Plate with S-9) NEGATIVE. NOT MUTAGENIC IN 5 STRAINS TESTED

rabbit, dermal LD₅₀: > 15g/Kg: PRACTICALLY NON-TOXIC

dog, absorption through open wounds: NO ACCESS TO SYSTEMIC CIRCULATION

mouse, intravenous LD₅₀: 2.25g/Kg: SLIGHTLY TOXIC/PRACTICALLY NON-TOXIC

rabbit, eye irritation (unrinsed) - (26% GEL): NON-IRRITATING

acute overexposure effects: CONTACT WITH THE EYES AND SKIN MAY RESULT IN IRRITATION. INHALATION MAY RESULT IN RESPIRATORY IRRITATION. INGESTION MAY RESULT IN GASTRIC DISTURBANCES

chronic overexposure effects: THERE ARE NO KNOWN CHRONIC EFFECTS ASSOCIATED WITH THIS MATERIAL

risk phrases: R40/20/21/22 Harmful: possible risk of irreversible effects through inhalation and in contact with skin and if swallowed

Section 12. Ecological information

NONE

Section 13. Disposal considerations

Disposal should follow federal and local Regulatory Guidelines for potentially HARMFUL agents. Check with your Laboratory Manager if you are unsure of your local Regulatory Guidelines

Section 14. Transport information

shipping: shipped as "DANGEROUS GOODS IN EXCEPTED QUANTITIES" in all respects compliant with applicable international and national government regulations and the IATA Dangerous Goods Regulations

class number: CLASS 6

UN number: UN2810

harmonized code: 3822.00.5090

WE CERTIFY THAT THE MATERIAL IDENTIFIED ABOVE IS CHEMICALLY SYNTHESIZED

WE CERTIFY THAT THE MATERIAL DOES NOT CONTAIN ANY ANIMAL OR CELL CULTURE DERIVED PRODUCTS OR ADDITIVES SUCH AS ALBUMIN OR SERUM

Section 15. Regulatory information

This product is not hazardous according to the OSHA Hazard Communication Standard.

THIS PRODUCT MAY CONTAIN TRACE AMOUNTS OF ETHYLENE OXIDE, PROPYLENE OXIDE AND 1,4-DIOXANE, CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND/OR BIRTH DEFECTS OR REPRODUCTIVE HARM.

label used: YES (Toxic material)

common name: CyGEL

signal word: WARNING!

acute health hazard: SLIGHT

contact hazard: SLIGHT

fire hazard: NONE

reactivity hazard: NONE

special hazard precautions: THIS PRODUCT MAY CONTAIN TRACE AMOUNTS OF ETHYLENE OXIDE, PROPYLENE OXIDE AND 1,4-DIOXANE, CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND/OR BIRTH DEFECTS OR REPRODUCTIVE HARM

storage: STORE AT +4°C. DO NOT FREEZE. PROTECT FROM PHYSICAL DAMAGE

Section 16. Other information

CyGEL and other Biostatus products are high-quality reagents and are intended for research purposes only. CyGEL and other Biostatus products must be used by technically qualified individuals with competence in the handling of potentially hazardous materials. A Material Safety Data Sheet is provided with this product. Guidance notes are available for product applications. CyGEL and other Biostatus products are covered by UK, US and foreign patents pending.

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