

CM HyperZ

BioSeptra SA, Division of CIPHERGEN Biosystems, Inc.

MSDS No. 03-005

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

BioSeptra SA, Division of CIPHERGEN Biosystems, Inc.
48 avenue des Genottes
95800 Cergy-Saint-Christophe, France
Tel. +33.(0)1.34.20.78.00

Product Name: CM HyperZ

Catalog Number(s): 21011

Tradename(s): CM HyperZ

Synonyms: None available

Chemical Formula:

A formulation.

Molecular Weight:

A formulation.

2. COMPOSITION, INFORMATION ON INGREDIENTS

Component	CAS No.	Percent
+ZIRCONIUM DIOXIDE	1314-23-4	90.00%
+NON HAZARDOUS INGREDIENTS	NA 0004	10.00%

Component	AIHA ERPG:	OSHA IDLH:
+ZIRCONIUM DIOXIDE		
+NON HAZARDOUS INGREDIENTS	not applic.	not applic.

CM HyperZ
BioSeptra SA, Division of CIPHERGEN Biosystems, Inc.
MSDS No. 03-005

3. HAZARDS IDENTIFICATION

***** EMERGENCY OVERVIEW *****

May cause irritation of the eye.
Contact may irritate/inflame the skin.
May cause respiratory tract irritation.
Dust may be explosive.
Not flammable during normal use.

Principal Routes of Entry

Route of Entry Inhalation: Yes.
Route of Entry Skin: Yes.
Route of Entry Ingestion: No.

Effects of Overexposure

Acute Effects:

From Eye Exposure:

May cause irritation of the eye.

From Skin Overexposure:

May cause irritation or reddening.

From Inhalation:

May cause breathing difficulty, wheezing, or shortness/blockage of breath (dyspnea).

From Ingestion:

None expected.

Other / Systemic Effects

None known.

Summary of Medical Conditions Aggravated by Exposure:

Pre-existing skin disorders. Respiratory system.

4. FIRST AID MEASURES

First Aid For Eyes:

Flush with water in an eyewash for at least 15 minutes, holding eyelids open. Remove contact lenses, clean before re-use. Obtain medical evaluation for all exposures.

First Aid For Skin:

Wash with plenty of soap and water. Obtain medical attention unless effects are mild and temporary. Remove contaminated clothes, wash before re-use.

CM HyperZ

BioSeptra SA, Division of CIPHERGEN Biosystems, Inc.

MSDS No. 03-005

4. FIRST AID MEASURES (Cont.)

First Aid For Inhalation:

Remove person to fresh air. Administer oxygen if needed. Start artificial respiration, if needed. Obtain medical attention unless effects are mild and temporary.

First Aid For Ingestion:

Give plenty of water, if conscious. If vomiting occurs naturally, wash mouth out. Be prepared to induce vomiting upon a physician's advice. Obtain emergency medical attention.

Note To Attending Physician:

Treat symptomatically.

5. FIRE FIGHTING MEASURES

Combustible: Yes.

Flashpoint: (F) (C) *
Not applicable.

Method Used:

LEL:
Not applicable.

UEL:

Autoignition Temp.: *
Not applicable.

Extinguishing Agents:

Use means appropriate for surrounding materials. Water spray. Chemical foam. Dry chemical. Carbon dioxide.

Personal Protective Equipment for Fire Conditions:

Standard turnout gear slicker suit ("bunker gear"). Positive-pressure self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

(Note that accidental releases may be subject to special reporting requirements and other regulatory mandates. Check and comply with applicable laws and regulations.)

CM HyperZ

BioSeptra SA, Division of CIPHERGEN Biosystems, Inc.

MSDS No. 03-005

6. ACCIDENTAL RELEASE MEASURES (Cont.)

Personal Protective Equipment for Spill Conditions:

Use respiratory protection as appropriate for conditions. Gloves should be used as minimum hand protection. Safety glasses should be the minimum eye protection.

No special body protection should be necessary, although laboratory jackets, coats, or other clean textile body coverings should always be worn as the minimum protection for using chemicals or biological agents.

(See section 8 for recommendations on protective materials of construction.)

Spill Cleanup:

Sweep gently to avoid generating dust. Use non sparking tools for handling and cleanup. Deposit in appropriate containers for removal and disposal.

Special Instructions:

Avoid breathing dust. Avoid eye and skin contact. Avoid contaminating clothing.

7. HANDLING AND STORAGE

(Storage of some materials is regulated; it is the purchaser's responsibility to ensure that storage complies with all applicable laws and regulations.)

Storage Temperature: Ambient (15-35 C).

Storage Pressure: Atmospheric.

Storage and Handling Procedures:

Keep container tightly sealed.

Special Storage Considerations:

None known.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

General Protection and Precautions

Protective Measures:

Avoid eye and skin contact. Avoid breathing dust. Wash hands thoroughly after use. Use of a laboratory exhaust hood should provide exposure control.

Air Purifying Respirator Canisters/Cartridges:

No respiratory protection will be needed for most operations.

CM HyperZ
BioSeptra SA, Division of CIPHERGEN Biosystems, Inc.
MSDS No. 03-005

8. EXPOSURE CONTROLS, PERSONAL PROTECTION (Cont.)

Glove and Protective Clothing:

Latex gloves are recommended as minimum hand protection when handling chemicals.

Eye Protection:

Safety glasses should be the minimum eye protection.

Hygiene Practices:

Hand washing is recommended after working with this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Solid material.

Odor: No odor.

Boiling Point (F) (C): Solid material
Not applicable.

Melting Point (F) (C): Not applicable
Not applicable.

pH: Not applicable.

Evaporation Rate: Not applicable.

Vapor Density (Air = 1): Not applicable.

Solubility in water (g/100g): Not applicable.

Partition Coefficient (Kow): Not applicable.

Vapor Pressure (mm Hg): Not applicable.

Volatiles (lbs/gallon): Not applicable.

Viscosity (Cp): Not applicable.

Heating Coefficient (cal/g):

CM HyperZ
BioSeptra SA, Division of CIPHERGEN Biosystems, Inc.
MSDS No. 03-005

9. PHYSICAL AND CHEMICAL PROPERTIES (Cont.)

Not applicable.

Conductivity (mhos/cm³):

Not applicable.

Specific Gravity:

Not applicable.

10. STABILITY AND REACTIVITY

Stability:

Stable under ordinary conditions of use and storage.

Conditions To Avoid:

Heat, open flame, spark.

Materials To Avoid:

Strong oxidizers.

Hazardous Products Of Spontaneous Decomposition:

None known.

Hazardous Products Of Thermal Decomposition:

None known.

Hazardous Polymerization:

Not expected to occur.

11. TOXICOLOGICAL INFORMATION

Consensus Exposure Guidelines:

ACGIH:

Component

+ZIRCONIUM DIOXIDE

+NON HAZARDOUS INGREDIENTS

TLV-TWA:

not applic

TLV-STEL:

not applic

TLV-Ceiling:

not applic.

Skin:

no

BEI:

not applic.

Regulatory Exposure Guidelines:

OSHA

Component

+ZIRCONIUM DIOXIDE

+NON HAZARDOUS INGREDIENTS

CM HyperZ
BioSeptra SA, Division of CIPHERGEN Biosystems, Inc.
MSDS No. 03-005

11. TOXICOLOGICAL INFORMATION (Cont.)

PEL: OSHA STEL: Excursion: Skin Warning?:
not applic not applic not applic. no

Acute Exposures

Eyes:
Hazards not thoroughly investigated.

Dermal:
Hazards not thoroughly investigated.

Inhalation:
Hazards not thoroughly investigated.

Oral:
Hazards not thoroughly investigated.

Sensitization:
Hazards not thoroughly investigated. May present health hazard.

Chronic Effects

Systemic effects:
Hazards not thoroughly investigated.

Target Organs:
None known.

Mutagenicity:
Hazards not thoroughly investigated.

Reproductive Hazards:
Hazards not thoroughly investigated.

Carcinogenicity Status

Carcinogenicity:
Hazards not thoroughly investigated.

NTP:
Not listed.

IARC:
Not listed.

OSHA:
Not listed.

Toxicological Investigations

CM HyperZ
BioSeptra SA, Division of CIPHERGEN Biosystems, Inc.
MSDS No. 03-005

11. TOXICOLOGICAL INFORMATION (Cont.)

Mice:

No information found.

Rats:

No information found.

Human:

No information found.

12. ECOLOGICAL INFORMATION

Ecotoxicological Information:

No information found.

Environmental Movement and Partitioning:

No information found.

Environmental Fate (Degradation, Transformation, and Persistence):

No information found.

Environmental Investigations:

CM HyperZ

BioSeptra SA, Division of CIPHERGEN Biosystems, Inc.

MSDS No. 03-005

12. ECOLOGICAL INFORMATION (Cont.)

No information found.

13. DISPOSAL CONSIDERATIONS

EPA Waste Number (RCRA Hazard Class):

Not specifically listed in the D, F, K, P, or U waste tables of the US EPA Resource Conservation and Recovery Act (RCRA), 40 CFR Part 261.

Other Waste Classifications:

Not applicable.

Treatment and Disposal:

Double check for compliance with applicable regulations prior to disposal.

(Note that treatment and disposal activities may be subject to laws and regulations that may include before-the-fact permitting as well as reporting requirements. It is the purchaser's responsibility to comply.)

14. TRANSPORT INFORMATION

North American Emergency Response Guidebook #:

Not applicable.

Transportation Agency:

DOT.

Shipping Designation:

Chemicals, N.O.S.

Hazard Class:

Not regulated.

UN #:

Not applicable.

Packing Group:

Not applicable.

Required Label Description:

None.

CM HyperZ
BioSeptra SA, Division of CIPHERGEN Biosystems, Inc.
MSDS No. 03-005

14. TRANSPORT INFORMATION (Cont.)

15. REGULATORY INFORMATION

OSHA: Not a "hazardous chemical" under US OSHA HazCom regulation (29 CFR Part 1910.1200).

TSCA: May be used only for research and development purposes in small quantities by, or under the direct supervision of, technically qualified persons in compliance with 40 CFR Section 720.36.

SARA: Not applicable.

CERCLA Reportable Quantity:

Section 302:
Not applicable.

Section 304:
Not applicable.

Section 313:
Not applicable.

US California Proposition 65:

Canadian Regulations:

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (CPR SECTION (33)) This product has been classified according to the hazard criteria of the Controlled Products Regulations, and the MSDS. This document contains all required information.

European Union:

MAC (Germany):
No information found.

EINICS #:
None found.

Risk Phrase: None.

Safety Phrase: None.

Safety Symbol: None.

CM HyperZ
BioSeptra SA, Division of CIPHERGEN Biosystems, Inc.
MSDS No. 03-005

15. REGULATORY INFORMATION (Cont.)

16. OTHER INFORMATION

NFPA 704M Rating

Fire: 1 Health: 1 Reactive: 1 Special: 1

Additional NFPA information:
Ratings not reviewed by NFPA.

The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since CIPHERGEN cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. 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.