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# SAFETY DATA SHEET

# SECTION 1. CHEMICAL IDENTIFICATION

CATALOG #: 47579

NAME: Bis(zinc porphyrin) (ca. 5µmol/L in Dichloromethane)

SYNONYMS:

24 HOUR EMERGENCY

(800) 535-5053(USA)

TELEPHONE:

352-323-3500 (INTERNATIONAL)

TO REQUEST AN MSDS: (800) 869-9290

CUSTOMER SERVICE:

(630) 766-2112

### SECTION 2. HAZARDS IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

GHS CLASSIFICATION IN ACCORDANCE WITH 29 CFR 1910 (OSHA HCS)

ACUTE TOXICITY, ORAL (CATEGORY 4), H302 SKIN CORROSION/IRRITATION (CATEGORY 2), H315 EYE DAMAGE/IRRITATION (CATEGORY 2A), H319
GERM CELL MUTAGENICITY (CATEGORY 2), H341
CARCINOGENICITY (CATEGORY 1B), H350
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (CATEGORY 1), H370
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE (CATEGORY 1), H372
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE (CATEGORY 2), H373
SHORT-TERM (ACUTE) AQUATIC HAZARD (CATEGORY 2), H401
LONG-TERM (CHRONIC) AQUATIC HAZARD (CATEGORY 2), H411

FOR THE FULL TEXT OF THE H-STATEMENTS MENTIONED IN THIS SECTION, SEE SECTION 16.

# GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS

PICTOGRAM



SIGNAL WORD DANGER

# **HAZARD STATEMENT(S)**

H302	HARMFUL IF SWALLOWED
H315	CAUSES SKIN IRRITATION.
H319	CAUSES SERIOUS EYE IRRITATION.
H341	SUSPECTED OF CAUSING GENETIC DEFECTS
H350	MAY CAUSE CANCER
H370	TOXIC TO AQUATIC LIFE
H372	TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS
H373	CAUSES DAMAGE TO: RESPIRATORY SYSTEM CENTRAL
	NERVOUS SYSTEM
H401	CAUSES DAMAGE TO ORGANS THROUGH PROLONGED OR
	REPEATED EXPOSURE : LIVER CENTRAL NERVOUS SYSTEM
H411	MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED
	OR REPEATED EXPOSURE : BLOOD

# PRECAUTIONARY STATEMENT(S)

TRECAUTIONARI STATEMENT(S)		
P201	OBTAIN SPECIAL INSTRUCTIONS BEFORE USE.	
P202	DO NOT HANDLE UNTIL ALL SAFETY PRECAUTIONS HAVE	
	BEEN READ AND UNDERSTOOD.	
P260	DO NOT BREATHE MIST, VAPORS OR SPRAY.	
P264	WASH HANDS AND FACE THOROUGHLY AFTER HANDLING	
P270	DO NOT EAT, DRINKOR SMOKE WHEN USING THIS PRODUCT.	
P273	AVOID RELEASE TO THE ENVIRONMENT.	
P280	WEAR PROTECTIVE GLOVES/ PROTECTIVE CLOTHING/ EYE	
	PROTECTION/ FACE PROTECTION.	
P301 + P312	IF SWALLOWED: CALL A POISON CENTER OR DOCTOR IF	
	YOU FEEL UNWELL. RINSE MOUTH.	
P302 + P352	IF ON SKIN: WASH WITH PLENTY OF SOAP AND WATER.	
P305 + P351 + P338	IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL	
	MINUTES. REMOVECONTACT LENSES, IF PRESENT AND EASY	
	TO DO. CONTINUE RINSING.	
P307 + P311	IF EXPOSED: CALL A POISON CENTER OR DOCTOR.	
P332 + P313	IF SKIN IRRITATION OCCURS: GET MEDICAL ADVICE OR	
	ATTENTION	
P337 + P313	IF EYE IRRITATION PERSISTS: GET MEDICAL ADVICEOR	
	ATTENTION.	

P362 + P364 TAKE OFF CONTAMINATEDCLOTHING AND WASH IT BEFORE

REUSE.

NONE

P391 COLLECT SPILLAGE. P405 STORE LOCKED UP.

P501 DISPOSE OF CONTENTS AND CONTAINER

HAZARDS NOT OTHERWISE

CLASSIFIED (HNOC) OR NOT COVERED

BY GHS

# SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

MF:  $C_{74}H_{90}N_8Zn_2$ 

MW: 1222.35

CAS-NO. 92995-45-4

PURITY:

# **HAZARDOUS COMPONENTS**

COMPONENT	CLASSIFICATION	CONCENTRATION		
Bis(zinc porphyrin) (ca. 5μmol/L in Dichloromethane)				
	-	-		

FOR THE FULL TEXT OF THE H-STATEMENTS MENTIONED IN THIS SECTION, SEE SECTION 16.

### **SECTION 4. FIRST-AID MEASURES**

# **DESCRIPTION OF FIRST AID MEASURES**

GENERAL ADVICE CONSULT A PHYSICIAN. SHOW THIS SAFETY DATA

SHEET TO THE DOCTOR IN ATTENDANCE.MOVE OUT OF

DANGEROUS AREA.

IF INHALED REMOVE VICTIM TO FRESH AIR AND KEEP AT REST IN A

POSITION COMFORTABLE FOR BREATHING. CALL A POISON CENTER OR DOCTOR/PHYSICIAN IF YOU FEEL

UNWELL.

IN CASE OF SKIN

**CONTACT** 

REMOVE/TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. GENTLY WASH WITH PLENTY OF SOAP AND

WATER. CALL A POISON CENTER OR

DOCTOR/PHYSICIAN.

IN CASE OF EYE RINSE CAUTIOUSLY WITH WATER FOR SEVERAL

**CONTACT** MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND

EASY TO DO. CALL A POISON CENTER OR

DOCTOR/PHYSICIAN.

IF SWALLOWED CALL A POISON CENTER OR DOCTOR/PHYSICIAN IF

YOU FEEL UNWELL. RINSE MOUTH.

MOST IMPORTANT SYMPTOMS AND

EFFECTS, BOTH ACUTE

AND DELAYED

ACUTE: DIZZINESS, REDNESS, DROWSINESS,

DELAYED: MAY CAUSE HERITABLE GENETIC DAMAGE IN HUMANS. POSSIBLY CARCINOGENIC TO HUMANS.

THE MOST IMPORTANT KNOWN SYMPTOMS AND EFFECTS ARE DESCRIBED IN THE LABELLING (SEE

SECTION 2.2) AND/OR IN SECTION 11.

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED NO DATA AVAILABLE

### SECTION 5. FIRE AND EXPLOSION DATA

**EXTINGUISHING MEDIA** 

SUITABLE DRY CHEMICAL, FOAM, WATER SPRAY, CARBON

**EXTINGUISHING MEDIA** DIOXIDE.

SPECIAL HAZARDS ARISING FROM THE

SUBSTANCE OR MIXTURE

CARBON OXIDES, NITROGEN OXIDES.

**ADVICE FOR** WEAR SELF-CONTAINED BREATHING APPARATUS IF

FIREFIGHTERS POSSIBLE.

**FURTHER INFORMATION** TAKE CARE AS IT MAY DECOMPOSE UPON

COMBUSTION OR IN HIGH TEMPERATURES TO

GENERATE POISONOUS FUME.

CLOSED CONTAINERS MAY EXPLODE FROM HEAT OF A

FIRE.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

PERSONALUSE PERSONAL PROTECTIVE EQUIPMENT. KEEP PEOPLEPRECAUTIONS,AWAY FROM AND UPWIND OF SPILL/LEAK. ENTRY TOPROTECTIVENON-INVOLVED PERSONNEL SHOULD BE CONTROLLEDEQUIPMENT ANDAROUND THE LEAKAGE AREA BY ROPING OFF, ETC.

EMERGENCY PROCEDURES

ENVIRONMENTAL PRECAUTIONS

BE CAREFUL NOT TO LET IT FLOW INTO RIVERS, ETC., SINCE ADVERSE EFFECTS ON THE ENVIRONMENT ARE

CONCERNED.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP ABSORB SPILLED MATERIAL IN A SUITABLE ABSORBENT (E.G. RAG, DRY SAND, EARTH, SAW-DUST). IN CASE OF LARGEAMOUNT OF SPILLAGE, CONTAIN A

SPILL BY BUNDING. ADHERED OR COLLECTED MATERIAL SHOULD BE PROMPTLYDISPOSED OF, IN ACCORDANCE WITH APPROPRIATE LAWS AND

REGULATIONS.

REFERENCE TO OTHER SECTIONS

FOR DISPOSAL SEE SECTION 13.

### SECTION 7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

HANDLING IS PERFORMED IN A WELL VENTILATED PLACE. WEAR SUITABLE PROTECTIVE EQUIPMENT. PREVENT GENERATION OF VAPOUR OR MIST. WASH

HANDS AND FACE THOROUGHLY AFTER HANDLING. USE A CLOSED SYSTEM IF POSSIBLE. USE A VENTILATION. LOCAL EXHAUST IF VAPOUR OR

AEROSOL WILL BE GENERATED.

AVOID ALL CONTACT!

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES KEEP CONTAINER TIGHTLY CLOSED. STORE IN A

REFRIGERATOR. STORE LOCKED UP.

STORE AWAY FROM INCOMPATIBLE MATERIALS SUCH

AS OXIDIZING AGENTS.

**HEAT-SENSITIVE** 

Store at 2 - 8 °C

**SPECIFIC END USE(S)** 

APART FROM THE USES MENTIONED IN SECTION 1.2 NO

OTHER SPECIFIC USES ARE STIPULATED.

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# **CONTROL PARAMETERS**

COMPONENTS WITH WORKPLACE CONTROL PARAMETERS
CONTAINS NO SUBSTANCES WITH OCCUPATIONAL EXPOSURE LIMIT VALUES.

**EXPOSURE LIMITS:** (DICHLOROMETHANE)

ACGIH TLV(TWA):50 PPM

**EXPOSURE CONTROLS** 

APPROPRIATE FOLLOW SAFE INDUSTRIAL ENGINEERING/LABORATORY

**ENGINEERING** PRACTICES WHEN HANDLING ANY CHEMICAL. INSTALL **CONTROLS** 

A CLOSED SYSTEM OR LOCAL EXHAUST. ALSO INSTALL

SAFETY SHOWER AND EYE BATH.

PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE PROTECTION FACE SHIELD AND SAFETY GLASSES USE EQUIPMENT

> FOR EYE PROTECTION TESTED AND APPROVED UNDER APPROPRIATE GOVERNMENT STANDARDS SUCH AS

NIOSH (US) OR EN 166(EU).

SKIN PROTECTION HANDLE WITH GLOVES. GLOVES MUST BE INSPECTED

PRIOR TO USE. USE PROPER GLOVE REMOVAL

TECHNIQUE (WITHOUT TOUCHING GLOVE"S OUTER SURFACE) TO AVOID SKIN CONTACT WITH THIS

PRODUCT. DISPOSE OF CONTAMINATED GLOVES AFTER USE IN ACCORDANCE WITH APPLICABLE LAWS AND GOOD LABORATORY PRACTICES. WASH AND DRY HANDS.

**BODY PROTECTION** IMPERVIOUS CLOTHING, FLAME RETARDANT

ANTISTATIC PROTECTIVE CLOTHING. THE TYPE OF

PROTECTIVE EQUIPMENT MUST BE SELECTED

ACCORDING TO THE CONCENTRATION AND AMOUNT OF

THE DANGEROUS SUBSTANCE AT THE SPECIFIC

WORKPLACE.

RESPIRATORY HALF OR FULL FACEPIECE RESPIRATOR, SELF-

PROTECTION CONTAINED BREATHING APPARATUS (SCBA), SUPPLIED

AIR RESPIRATOR, ETC.

USE RESPIRATORS APPROVED UNDER APPROPRIATE GOVERNMENT STANDARDS AND FOLLOW LOCAL AND

NATIONAL REGULATIONS.

**CONTROL OF** PREVENT FURTHER LEAKAGE OR SPILLAGE IF SAFE TO

ENVIRONMENTAL DO SO. DO NOT LET PRODUCT ENTER DRAINS.

**EXPOSURE** 

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

# INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE Yellow to amber to red clear liquid

**ODOUR** NO DATA AVAILABLE ODOUR THRESHOLD NO DATA AVAILABLE PΗ NO DATA AVAILABLE

**MELTING** 

POINT/FREEZING POINT INITIAL BOILING POINT AND BOILING RANGE

FLASH POINT

EVAPORATION RATE NO DATA AVAILABLE FLAMMABILITY (SOLID, NO DATA AVAILABLE

GAS)

UPPER/LOWER NO DATA AVAILABLE

FLAMMABILITY OR EXPLOSIVE LIMITS

VAPOUR PRESSURE NO DATA AVAILABLE VAPOUR DENSITY NO DATA AVAILABLE

RELATIVE DENSITY

WATER SOLUBILITY NO DATA AVAILABLE PARTITION COEFFICIENT: NO DATA AVAILABLE

N- OCTANOL/WATER

AUTO-IGNITION NO DATA AVAILABLE

TEMPERATURE

DECOMPOSITION NO DATA AVAILABLE

TEMPERATURE

VISCOSITY NO DATA AVAILABLE EXPLOSIVE PROPERTIES NO DATA AVAILABLE OXIDIZING PROPERTIES NO DATA AVAILABLE

### OTHER SAFETY INFORMATION

LOG POW: (DICHLOROMETHANE) 1.25

# SECTION 10. STABILITY AND REACTIVITY

**REACTIVITY** NO DATA AVAILABLE

CHEMICAL STABILITY STABLE UNDER RECOMMENDED STORAGE CONDITIONS.

POSSIBILITY OF HAZARDOUS REACTIONS NO SPECIAL REACTIVITY HAS BEEN REPORTED.

CONDITIONS TO AVOID NO DATA AVAILABLE

INCOMPATIBLE MATERIALS OXIDIZING AGENTS, STRONG BASES, LIGHT METALS

CARBON DIOXIDE, CARBON MONOXIDE, NITROGEN

HAZARDOUS DECOMPOSITION

OXIDES (NOX)

PRODUCTS

### SECTION 11. TOXICOLOGICAL INFORMATION

### INFORMATION ON TOXICOLOGICAL EFFECTS

ACUTE TOXICITY NO DATA AVAILABLE

INHALATION: NO DATA AVAILABLE

DERMAL: NO DATA AVAILABLE

NO DATA AVAILABLE

SKIN NO DATA AVAILABLE

CORROSION/IRRITATION

**SERIOUS EYE** NO DATA AVAILABLE

DAMAGE/EYE IRRITATION

RESPIRATORY OR SKIN NO DATA AVAILABLE SENSITISATION

GERM CELL NO DATA AVAILABLE MUTAGENICITY

CARCINOGENICITY

IARC: NO COMPONENT OF THIS PRODUCT PRESENT AT

LEVELS GREATER THAN OR EQUAL TO 0.1% IS

IDENTIFIED AS PROBABLE, POSSIBLE OR CONFIRMED

HUMAN CARCINOGEN BY IARC.

NTP: NO COMPONENT OF THIS PRODUCT PRESENT AT

LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS A KNOWN OR ANTICIPATED

CARCINOGEN BY NTP.

OSHA: NO COMPONENT OF THIS PRODUCT PRESENT AT

LEVELS GREATER THAN OR EQUAL TO 0.1% IS ON OSHA S LIST OF REGULATED CARCINOGENS.

REPRODUCTIVE TOXICITY NO DATA AVAILABLE

SPECIFIC TARGET ORGAN

TOXICITY - SINGLE

**EXPOSURE** 

CAUSES DAMAGE TO: RESPIRATORY SYSTEM CENTRAL

NERVOUS SYSTEM

SPECIFIC TARGET ORGAN

TOXICITY - REPEATED

**EXPOSURE** 

CAUSES DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE: LIVER CENTRAL NERVOUS

SYSTEM

MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE: BLOOD

**ASPIRATION HAZARD** NO DATA AVAILABLE

**ADDITIONAL** RTECS: NOT AVAILABLE **INFORMATION** 

TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND TOXICOLOGICAL PROPERTIES HAVE

NOT BEEN THOROUGHLY INVESTIGATED.

#### **SECTION 12. ECOLOGICAL INFORMATION**

**TOXICITY** NO DATA AVAILABLE

PERSISTENCE AND DEGRADABILITY

NO DATA AVAILABLE

BIOACCUMULATIVE

**POTENTIAL** 

NO DATA AVAILABLE

**MOBILITY IN SOIL** NO DATA AVAILABLE

RESULTS OF PBT AND VPVB NO DATA AVAILABLE

ASSESSMENT

OTHER ADVERSE EFFECTS NO DATA AVAILABLE

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

### WASTE TREATMENT METHODS

**PRODUCT** RECYCLE TO PROCESS IF POSSIBLE. IT IS THE

> GENERATOR"S RESPONSIBILITY TO COMPLY WITH FEDERAL, STATE AND LOCAL RULES AND REGULATIONS. YOU MAY BE ABLE TO DISSOLVE OR MIX MATERIAL WITH A COMBUSTIBLE SOLVENT AND BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AN AFTER BURNER AND SCRUBBER SYSTEM. THIS SECTION ISINTENDED TO PROVIDE ASSISTANCE BUT DOES NOT REPLACE THESE LAWS, NOR DOES COMPLIANCE IN

ACCORDANCEWITH THIS SECTION ENSURE

REGULATORY COMPLIANCE ACCORDING TO THE LAW. THE PRODUCT SHOULD NOT BE ALLOWED TO ENTER THE ENVIRONMENT, DRAINS, WATER WAYS, OR THE

SOIL.

**CONTAMINATED** 

**PACKAGING** 

DISPOSE OF AS UNUSED PRODUCT. DO NOT RE-USE

EMPTY CONTAINERS.

OBSERVE ALL FEDERAL, STATE AND LOCAL

REGULATIONS WHEN DISPOSING OF THE SUBSTANCE.

#### **SECTION 14.** TRANSPORT INFORMATION

DOT (US)

PROPER SHIPPING NAME: DICHLOROMETHANE

UN NUMBER: 1593 CLASS: 6.1 PACKING GROUP: III

REPORTABLE QUANTITIY: 1000 POUNDS (454 KILOGRAMS)

**IMDG** 

PROPER SHIPPING NAME: DICHLOROMETHANE

UN NUMBER: 1593
CLASS: 6.1
PACKING GROUP: III
EMS-NO: F-A, S-A

IATA

PROPER SHIPPING NAME: DICHLOROMETHANE

UN NUMBER: 1593 CLASS: 6.1 PACKING GROUP: III

### SECTION 15. REGULATORY INFORMATION

SARA 302 COMPONENTS NO CHEMICALS IN THIS MATERIAL ARE SUBJECT TO THE

REPORTING REQUIREMENTS OF SARA TITLE III, SECTION

302.

SARA 313 COMPONENTS THIS MATERIAL DOES NOT CONTAIN ANY CHEMICAL

COMPONENTS WITH KNOWN CAS NUMBERS THAT EXCEED THE THRESHOLD (DE MINIMIS) REPORTING LEVELS ESTABLISHED BY SARA TITLE III, SECTION 313.

# MASSACHUSETTS RIGHT TO KNOW COMPONENTS

NO COMPONENTS ARE SUBJECT TO THE MASSACHUSETTS RIGHT TO KNOW ACT.

# SECTION 16. OTHER INFORMATION

# FULL TEXT OF H-STATEMENTS REFERRED TO UNDER SECTIONS 2 AND 3.

H302 HARMFUL IF SWALLOWED H315 CAUSES SKIN IRRITATION.

H319 CAUSES SERIOUS EYE IRRITATION.

H341 SUSPECTED OF CAUSING GENETIC DEFECTS

H350 MAY CAUSE CANCER H370 TOXIC TO AQUATIC LIFE

H372 TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS
H373 CAUSES DAMAGE TO: RESPIRATORY SYSTEM CENTRAL

**NERVOUS SYSTEM** 

H401 CAUSES DAMAGE TO ORGANS THROUGH PROLONGED OR

REPEATED EXPOSURE: LIVER CENTRAL NERVOUS

**SYSTEM** 

H411 MAY CAUSE DAMAGE TO ORGANS THROUGH

PROLONGED OR REPEATED EXPOSURE: BLOOD

MSDS LEGEND

MW: MOLECULAR WEIGHT
MF: MOLECULAR FORMULA

VOC: VOLATILE ORGANIC COMPOUNDS

ACGIH: AMERICAN CONFERENCE OF GOVERNMENENTAL

INDUSTRIAL HYGINISTS

CAS: CHEMICAL ABSTRACTS SERIVE REGISTRY NUMBER OSHA: OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

PEL: PERMISSIBLE EXPOSURE LIMIT (OSHA) TLV: THRESHOLD LIMIT VALUE (ACGIH)

IMPORTANT:

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