SZABO SCANDIC

Part of Europa Biosite

Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

linkedin.com/company/szaboscandic

Bis(Zinc Porphyrin) (ca. 5micro mol/L in Dichloromethane) [for CD Spectroscopy]: sc-293524

MATERIAL SAFETY DATA SHEET

HAZARD WARNINGS	RISK PHRASES	PROTECTIVE CLOTHING
	**CARCINOGEN. MINIMIZE EXPOSURE.** **MUTAGEN. MINIMIZE EXPOSURE.** **Toxic compound, do not ingest or inhale. Avoid all contact with this material. Readily absorbed through skin.** **Irritating to skin, eyes, and the respiratory system.** **Heat sensitive material.** **Store under argon.** **Refrigerate.**	

Section I. Chemical Product and Company Identification

Chemical Name	Bis(Zinc Porphyrin) (ca. 5micro mol/L in Dichloromethane) [for CD Spectroscopy]
Catalog Number	sc-293524
CAS Number	92995-45-4
Chemical Formula	C74H90N8Zn2

Supplier Santa Cruz Biotechnology, Inc.
2145 Delaware Avenue
Santa Cruz, California 95060
800.457.3801 or 831.457.3800

Emergency **ChemWatch**
Within the US & Canada: 877-715-9305
Outside the US & Canada: +800 2436 2255
(1-800-CHEMCALL) or call +613 9573 3112

Section II. Composition and Information on Ingredients

Chemical Name	CAS Number	Percent (%)	TLV/PEL	Toxicology Data
Bis(Zinc Porphyrin) (ca. 5micro mol/L in Dichloromethane) [for CD Spectroscopy]	92995-45-4 75-09-2 Dichloromethane	4.6 ppm	This chemical is classified as a carcinogen. There is no acceptable exposure limit for a carcinogen. This compound is classified as a mutagen. There is no acceptable exposure limit for a mutagen.	(Dichloromethane) Rat LD_{50} (oral) 1600 mg/kg Mouse LD_{50} (oral) 873 mg/kg Rat LD_{50} (intraperitoneal) 916 mg/kg

Section III. Hazards Identification

Acute Health Effects

Toxic if ingested or inhaled. Avoid prolonged contact with this material. Overexposure may result in serious illness or death. Irritating to eyes and skin on contact. Inhalation causes irritation of the lungs and respiratory system. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.
Readily absorbed through skin.
Follow safe industrial hygiene practices and always wear proper protective equipment when handling this compound.

Chronic Health Effects

CARCINOGENIC EFFECTS : Carcinogenic by RTECS critera
MUTAGENIC EFFECTS : Not available.
TERATOGENIC EFFECTS : Tumorigenic Effects
(Dichloromethane)
Rat TCLo (Inhalation) 3500 ppm/6hours/2years intermittent
Toxic Effects:
Tumorigenic - Carcinogenic by RTECS critera
Endocrine - Tumors
Mouse TCLo (Inhalation) 122400 mg/kg/102 weeks intermittent
Tumorigenic - Carcinogenic by RTECS criteria
Lung, Thorax, or Respiration - Tumors
Liver - Tumors
Mouse TCLo (Inhalation) 2000 ppm/5 hours/2 years continuous
Toxic Effects:
Tumorigenic - Carcinogenic by RTECS criteria
Lung, Thorax, or Respiration - Tumors
DEVELOPMENTAL TOXICITY: Reproductive Effects
(Dichloromethane)
Rat TCLo (Inhalation) 1250 ppm/7hours; female 6-15 days or pregnancy
Toxic Effects:
Specific Developmental Abnormalities - Musculoskeletal system
Specific Developmental Abnormalities - Urogenital system
Mouse TCLo (Inhalation) 1250 ppm/7hours; female 6-15 days of pregnancy.
Toxic Effects:
Specific Developmental Abnormalities - Musculoskeletal system
Rat TCLo (Inhalation) 5400 ppm/24hours; female 1-17 days of pregnancy.
Toxic Effects:
Effects on Newborn - Behavioral
Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

Section IV. First Aid Measures

Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
Skin Contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
Inhalation	If the victim is not breathing, perform mouth-to-mouth resuscitation. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, oxygen can be administered. Seek medical attention if respiration problems do not improve.
Ingestion	INDUCE VOMITING by sticking finger in throat. Lower the head so that the vomit will not reenter the mouth and throat. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive.

Section V. Fire and Explosion Data

Flammability	May be combustible at high temperature.	Auto-Ignition	662°C (1223.6°F) (Dichloromethane)
Flash Points	100°C (212°F). (Dichloromethane)	Flammable Limits	LOWER: 12% UPPER: 19% (Dichloromethane)

Combustion Products	These products are toxic carbon oxides (CO, CO_2), nitrogen oxides (NO, NO_2). Some metallic oxides, halogenated compounds. WARNING: Highly toxic HCl gas is produced during combustion.
Fire Hazards	Not available.
Explosion Hazards	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. DO NOT use water jet. Consult with local fire authorities before attempting large scale fire-fighting operations.

Section VI. Accidental Release Measures

Spill Cleanup Instructions	Carcinogenic material. Mutagenic material. Toxic material. Readily absorbed through skin. Irritating material. Heat sensitive material. Stop leak if without risk. Absorb with an inert material and put the spilled material in an appropriate waste disposal. DO NOT get water inside container. DO NOT touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all sources of ignition. Consult federal, state, and/or local authorities for assistance on disposal.

Section VII. Handling and Storage

Handling and Storage Information	CARCINOGENIC. MUTAGENIC. TOXIC. READILY ABSORBED THROUGH SKIN. IRRITANT. HEAT SENSITIVE. STORE UNDER ARGON. REFRIGERATE. Keep locked up. Keep away from heat. Mechanical exhaust required. When not in use, tightly seal the container and store in a dry, cool place. Avoid excessive heat and light. DO NOT ingest. Do not breathe gas/fumes/ vapor/spray. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Treat symptomatically and supportively. Store at 4° C. Always store away from incompatible compounds such as oxidizing agents, alkalis (bases).

Section VIII. Exposure Controls/Personal Protection

Engineering Controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash station and safety shower is proximal to the work-station location.
Personal Protection	Splash goggles. Lab coat. Vapor respirator. Boots. Gloves. A MSHA/NIOSH approved respirator must be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product. 
Exposure Limits	This chemical is classified as a carcinogen. There is no acceptable exposure limit for a carcinogen. This compound is classified as a mutagen. There is no acceptable exposure limit for a mutagen.

Section IX. Physical and Chemical Properties

Physical state @ 20°C	Liquid.	Solubility	(Dichloromethane) Soluble in 50 parts water; Miscible with alcohol, ether, dimethylformamide.
Specific Gravity	1.325 (water=1) (Dichloromethane)		
Molecular Weight	1222.32 84.93 (Dichloromethane)	Partition Coefficient	LOG K_{ow}: 1.25 (Dichloromethane)
Boiling Point	40°C (104°F) (Dichloromethane)	Vapor Pressure	353.11 mmHg (@ 20°C) (Dichloromethane)
Melting Point	-97°C (-142.6°F) (Dichloromethane)	Vapor Density	2.9 (Air = 1) (Dichloromethane)
Refractive Index	1.424 (Dichloromethane)	Volatility	Not available.
Critical Temperature	Not available.	Odor	Not available.
Viscosity	<0.001 PAS @ 20°C (Dichloromethane)	Taste	Not available.

Section X. Stability and Reactivity Data

Stability	This material is stable if stored under proper conditions. (See Section VII for instructions)
Conditions of Instability	Avoid excessive heat and light.
Incompatibilities	Reactive with oxidizing agents, strong alkalis (bases), light metals. (Dichloromethane) Reactive with alkali metals, aluminium.

Section XI. Toxicological Information

RTECS Number	PA8050000 (Dichloromethane)
Routes of Exposure	Eye Contact. Ingestion. Inhalation.
Toxicity Data	(Dichloromethane) Rat LD_{50} (oral) 1600 mg/kg Mouse LD_{50} (oral) 873 mg/kg Rat LD_{50} (intraperitoneal) 916 mg/kg
Chronic Toxic Effects	**CARCINOGENIC EFFECTS** : Carcinogenic by RTECS critera **MUTAGENIC EFFECTS** : Not available. **TERATOGENIC EFFECTS** : Tumorigenic Effects (Dichloromethane) Rat TCLo (Inhalation) 3500 ppm/6hours/2years intermittent Toxic Effects: Tumorigenic - Carcinogenic by RTECS critera Endocrine - Tumors Mouse TCLo (Inhalation) 122400 mg/kg/102 weeks intermittent Tumorigenic - Carcinogenic by RTECS criteria Lung, Thorax, or Respiration - Tumors Liver - Tumors Mouse TCLo (Inhalation) 2000 ppm/5 hours/2 years continuous Toxic Effects: Tumorigenic - Carcinogenic by RTECS criteria Lung, Thorax, or Respiration - Tumors **DEVELOPMENTAL TOXICITY**: Reproductive Effects (Dichloromethane) Rat TCLo (Inhalation) 1250 ppm/7hours; female 6-15 days or pregnancy Toxic Effects: Specific Developmental Abnormalities - Musculoskeletal system Specific Developmental Abnormalities - Urogenital system Mouse TCLo (Inhalation) 1250 ppm/7hours; female 6-15 days of pregnancy. Toxic Effects: Specific Developmental Abnormalities - Musculoskeletal system Rat TCLo (Inhalation) 5400 ppm/24hours; female 1-17 days of pregnancy. Toxic Effects: Effects on Newborn - Behavioral Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.
Acute Toxic Effects	Toxic if ingested or inhaled. Avoid prolonged contact with this material. Overexposure may result in serious illness or death. Irritating to eyes and skin on contact. Inhalation causes irritation of the lungs and respiratory system. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. Readily absorbed through skin. Follow safe industrial hygiene practices and always wear proper protective equipment when handling this compound.

Section XII. Ecological Information

Ecotoxicity	Not available.
Environmental Fate	Not available.

Section XIII. Disposal Considerations

Waste Disposal	Recycle to process, if possible. Consult your local regional authorities. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

Section XIV. Transport Information

DOT Classification	DOT CLASS 6.1: Toxic material.
PIN Number	UN1593
Proper Shipping Name	Dichloromethane solution
Packing Group (PG)	III
DOT Pictograms	

Section XV. Other Regulatory Information and Pictograms

TSCA Chemical Inventory (EPA)	This product is **NOT** on the EPA Toxic Substances Control Act (TSCA) inventory. The following notices are required by 40 CFR 720.36 (C) for those products not on the inventory list: (i) These products are supplied solely for use in research and development by or under the supervision of a technically qualified individual as defined in 40 CFR 720.0 et sec. (ii) The health risks of these products have not been fully determined. Any information that is or becomes available will be supplied on an MSDS sheet.
WHMIS Classification (Canada)	CLASS D-1B: Material causing immediate and serious toxic effects (TOXIC).
EINECS Number (EEC)	200-838-9 (Dichloromethane)
EEC Risk Statements	R45- May cause cancer. R46- May cause heritable genetic damage. R47- May cause birth defects. R23/24/25- Toxic by inhalation, in contact with skin and if swallowed. R36/37/38- Irritating to eyes, respiratory system and skin.
Japanese Regulatory Data	ENCS no.: 2-36 (Dichloromethane)

Section XVI. Other Information

Notice to Reader:	***The above information is believed to be correct but does not purport to be complete and should be used only as a guide. The burden of safe use of this material rests entirely with the user.***

3/1/2012