

Revision number: 1 Revision date: 07/06/2018

1. IDENTIFICATION

Product name:

Product code:

Product use: Restrictions on use:

Company: TCI America 9211 N. Harborgate Street Portland, OR 97203 U.S.A. Telephone: +1-800-423-8616 / +1-503-283-1681 Fax: +1-888-520-1075 / +1-503-283-1987 e-mail: sales-US@TCIchemicals.com www.TCIchemicals.com

2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200: Skin Corrosion/Irritation [Category 2] WHMIS 2015: Warning! Hazard Statement(s): Causes skin irritation
Causes serious eye irritation Pictogram(s) or Symbol(s): Vertication Precautionary Statement(s): Precautionary Statement(s):

Precautionary Statement(s): [Prevention] [Response]

Hazards not otherwise classified: [HNOC] Wash hands and face thoroughly after handling. Wear protective gloves, eye protection. If on skin: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice or attention. Take off contaminated clothing and wash it before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

3. COMPOSITION/INFORMATION ON INGREDIENTS

None.

Substance/mixture: Substance Components: 2'-(4-Hydroxyphenyl)-5-(4-methyl-1-piperazinyl)-2,5'-bibenzimidazole Trihydrochloride Hydrate [for Biochemical Research] Percent: >98.0%(HPLC) CAS RN: 23491-45-4 Molecular Weight: 533.88(Anh) Chemical Formula: C25H24N6O·3HCI·xH2O Synonyms: Bisbenzimide H 33258 Hydrate

2'-(4-Hydroxyphenyl)-5-(4-methyl-1-piperazinyl)-2,5'-bibenzimidazole Trihydrochloride Hydrate [for Biochemical Research] H1343

For laboratory research purposes. Not for drug or household use.

TCI AMERICA

SAFETY DATA SHEET

Emergency telephone number:

Chemical Emergencies: TCI America (8:00am - 5:00pm) PST +1-503-286-7624 Transportation Emergencies: Chemtrec 24-Hour +1-800-424-9300 (U.S.A.) +1-703-527-3887 (International) **Responsible department:** TCI America Environmental Health Safety and Security +1-503-286-7624

4. FIRST-AID MEASURES

Indication of any immediate m Not available. Notes to physician: No data available	edical attention:				
Delayed:	No data available				
Acute:	Redness.				
Symptoms/effects:					
Ingestion:	Get medical advice/attention if you feel unwell. Rinse mouth.				
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.				
Skin contact:	Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.				
Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get me advice/attention if you feel unwell.					
Description of first aid measur	res				

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Dry chemical, foam, water spray, carbon dioxide.		
Specific hazards arising from the chemical:	Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume.		
Hazardous combustion products: Other specific hazards:	These products include: Carbon oxides Nitrogen oxides Halogenated compounds WARNING: Highly toxic HCI gas is produced during combustion.		
Advice for firefighters:	Wear self-contained breathing apparatus if possible.		
6. ACCIDENTAL RELEASE MEASURES			
Personal precautions, protective equipment and emergency procedures: Environmental precautions: Methods and materials for containment and cleaning up:	Prevent product from entering drains.		
7. HANDLING AND STORAGE			
Precautions for safe handling:	Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent dispersion of dust. Wash hands and face thoroughly after handling.		

dispersion of dust. Wash hands and face thoroughly after handling. Use a local exhaust if dust or aerosol will be generated.
Avoid contact with skin, eyes and clothing.
ny incompatibilities
Keep container tightly closed. Store in a freezer.
Store away from incompatible materials such as oxidizing agents.
Heat-sensitive Light-sensitive
Comply with laws.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Appropriate engineering controls:	Follow safe industrial engineering/laboratory practices when handling any chemical. Install a clos system or local exhaust as possible so that workers should not be exposed directly. Also install s shower and eye bath.	
Personal protective equipment		
Respiratory protection:	Dust respirator. Follow local and national regulations.	
Hand protection:	Protective gloves.	
Eye protection:	Safety glasses. A face-shield, if the situation requires.	
Skin and body protection:	Protective clothing. Protective boots, if the situation requires.	

9. PHYSICAL AND CHEMICAL PROPERTIES

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Physical state (20°C): Form: Colour: Odour: Odor threshold: Odour threshold:	Solid Crystal - Powder Pale yellow green - No data available No data available No data available	- Greyish reddish yellow	
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic viscosity: Log Pow:	280°C (536°F) No data available No data available No data available No data available No data available	pH: Vapour pressure: Vapour density: Dynamic Viscosity: Evaporation rate(Butyl Acetate=1):	No data available No data available. No data available No data available No data available
Flash point: Flammability(solid, gas):	No data available No data available	Autoignition temperature: Flammability or explosive limits: Lower: Upper:	No data available No data available No data available
Solubility(ies): [Water] [Other solvents]	No data available No data available		
10. STABILITY AND REACTIV	/ITY		
Reactivity: Chemical stability: Possibility of hazardous reaction Incompatible materials: Hazardous decomposition produ	Cxidizing agents Carbon dioxide, Ca	r conditions. y has been reported. rbon monoxide, Nitrogen oxides (NOx), Hydro	ogen chloride
11. TOXICOLOGICAL INFORM	MATION		
RTECS Number: SM1140500			
Acute Toxicity: ivn-rat LD50:32200 ug/kg			
Skin corrosion/irritation: No data available			
Serious eye damage/irritation: No data available			
Respiratory or skin sensitization: No data available	:		
Germ cell mutagenicity: sce-ham-Ing 15 umol/L		cyt-rat-fbr 1 mg/L	
Carcinogenicity: No data available			
IARC: No data available	NTP:	No data available OSHA	: No data available
Reproductive toxicity: No data available			
Target organ(s):	No data available		

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12. ECOLOGICAL INFORMATION

Ecotoxicity: Fish: Crustacea: Algae:	No data available No data available No data available
Persistence / degradability: Bioaccumulative potential(BCF): Mobility in soil	No data available No data available
Log Pow: Soil adsorption (Koc): Henry's Law (PaM³/mol):	No data available No data available No data available
13. DISPOSAL CONSIDERATIONS	
Disposal of 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 afterburner and scrubber system. This section is intended to provide assistance but does not replace these laws, nor does compliance in accordance with this section ensure regulatory compliance according to the law. US EPA guidelines for Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not be allowed to enter the environment, drains, water ways, or the soil.
Disposal of container: Other considerations:	Dispose of as unused product. Do not re-use empty containers. Observe all federal, state and local regulations when disposing of the substance.
14. TRANSPORT INFORMATION	
DOT (US)	Non-hazardous for transportation.
IATA	Non-hazardous for transportation.
IMDG	Non-hazardous for transportation.

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15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA 8b.): This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.

US Federal Regulations CERCLA Hazardous substance and Reportable Quantity: SARA 313: Not Listed					
SARA 302:		Not Listed			
State Regulations State Right-to-Kn Massachuset New Jersey Pennsylvania California Propos	ow ts	Not Listed Not Listed Not Listed Not Listed			
Other Information NFPA Rating: Health: Flammability: Instability:	2 0 0		HMIS Classification: Health: Flammability: Physical:		
International Inventories Canada: DSL EC-No:		On DSL 245-690-6			

16. OTHER INFORMATION

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TCI chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.