



Teco Diagnostics

Document	QL801-015
Revision	B
Prepared by	Payal Maheshwari
Approved by	Steve Partono
Issue date	05/11/2016

[SDS]

Direct & Total Bilirubin

1268 N. Lakeview Ave. Anaheim, CA 92807 Phone: (714) 463-1111 Fax: (714) 463-1169 www.tecodiag.com

Section 1 – Identification

Product Name	Direct & Total Bilirubin Reagent	Emergency Telephone No.
Catalog Numbers	B577-480	CHEMTREC (800) 424-9300
Product Type	Clinical Chemistry Reagent	International CHEMTREC (703) 527-3887
Company Name	Teco Diagnostics	Company Telephone No.
Street Address	1268 N. Lakeview Avenue	(800) 222-9880 or (714) 463-1111 Monday - Friday 8:00-4:30 PT
City, State, Zip Code, Country	Anaheim, CA 92807 USA	Fax No. (714) 463-1169
Recommended Use: For <i>in vitro</i> diagnostic use only. For professional use only.		
Restrictions on Use: Not for <i>in vivo</i> use.		

Section 2 – Hazard(s) Identification

Classification: This material is not classified as hazardous according to the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Emergency Overview: When the recommended instructions for use are followed, the product is not expected to produce significant adverse health effects. There are no known significant effects or critical hazards; however, appropriate safety precautions should still be taken. Avoid contact with eyes and skin.
Acute health effects: No known significant effects or critical hazards have been identified.
Chronic health effects: No known significant effects or critical hazards have been identified.
For additional information on toxicity, please refer to section 11.

Section 3 – Composition/Information on Ingredients

Component	Type	Chemical Concentration or % (Based on dried weight at time of impregnation)	CAS#
Bilirubin Reagent	Mixture	165mM Hydrochloric Acid	7647-01-0

Section 4 – First Aid Measures

Ingestion	If victim is conscious and alert, wash out their mouth with water, and then give 2 to 4 cups of water. Never give anything by mouth to an unconscious person. Seek medical attention.
Inhalation	Move exposed person to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.
Skin Contact	Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing. Wash clothing before reuse. Get medical attention if irritation occurs.
Eye Contact	Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if irritation occurs.

Section 5- Fire-fighting Measures

Extinguishing Media Suitable: Use water spray, foam, or dry chemical. Unsuitable: None known
Specific Hazards No known hazardous combustion products.
Special protective equipment and precautions for fire-fighters Wear self-contained breathing apparatus and appropriate protective clothing for firefighting.

Section 6 – Accidental Release Measures

Personal precautions, protective equipment and emergency procedures Wear proper personal protective equipment (PPE) as indicated in section 8. Exercise appropriate precautions to avoid contact with skin or eyes and prevent inhalation.
Methods and materials for containment and cleaning up Vacuum or sweep material and place into a suitable waste container. Dispose of in accordance with federal, state, and local regulations.

Section 7 – Handling and Storage

Handling Wear appropriate personal protective equipment (PPE) as indicated in section 8. Avoid contact with eyes, skin, and clothing. Avoid inhalation or ingestion.
Storage Store at 15-30°C in the original container and protect from sunlight. Keep container closed when not in use.



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Section 8 – Exposure Controls / Personal Protection

Components with workplace control parameters	The product contains no components with occupational exposure limit values.
Engineering Controls	No special ventilation requirements. Good general ventilation is sufficient.
Personal Protective Equipment	
Respiratory Protection	Respiratory protective equipment is not required where adequately ventilated.
Hand Protection	Wear chemical-resistant, impervious gloves
Eye Protection	Safety glasses with side shields recommended.
Protective Clothing	Wear a lab coat.
Other protective equipment	Ensure the eyewash station and/or safety shower/wash is located near the work area.

General Hygiene Measures
 Handle in accordance with good industrial hygiene practice. After handling the product, remove gloves using proper glove removal technique (without touching outer surface of glove), and dispose gloves according to applicable laws and good laboratory practices. Wash hands thoroughly. Also wash hands before eating, smoking, using the lavatory, and at end of the work period.

Section 9 – Physical and Chemical Properties

Appearance	Reagents are colorless liquids
Odor	N/A
Odor threshold	N/A
pH	N/A
Melting point / freezing point	N/A
Initial boiling point and boiling range	N/A
Flash point	N/A
Evaporation rate	N/A
Flammability	Not flammable
Upper/lower flammability or explosion limits	N/A
Vapor pressure	N/A
Vapor density	N/A
Relative density	N/A
Solubility	Insoluble
Partition coefficient: n-octanol/water	N/A
Auto-ignition Temperature	N/A
Decomposition Temperature	N/A
Viscosity	N/A

Section 10 – Stability and Reactivity

Reactivity	Reacts with human serum.
Chemical stability	Stable under recommended storage conditions as indicated in section 7.
Possibility of hazardous reactions	No information available
Conditions to avoid	Avoid high temperature, high humidity conditions
Incompatible materials	No information available
Hazardous decomposition products	No information available

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Section 11- Toxicological Information

Route of Entry/Exposure	Skin contact, eye contact
Effects of acute exposure	
Skin contact	May cause irritation.
Eye contact	May cause irritation.
Ingestion	May be harmful if ingested.
Inhalation	May cause irritation to mucous membranes and upper respiratory tract.
Effects of chronic exposure	No information available

Toxicity:

Component	Chemical	Acute Toxicity	Chronic Toxicity	Other Information
Bilirubin Reagent	Hydrochloric Acid	LD50 Oral – rat 700 mg/kg LD50 Dermal – rabbit 5010 mg/kg	No information available	No information available

Carcinogenicity

IARC	No component present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC.
ACGIH	No component present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP	No component present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by NTP.
OSHA	No component present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

Section 12 – Ecological Information

Ecotoxicity	No information available	Mobility in soil	No information available
Persistence and degradability	No information available	Other adverse effects	No information available
Bio-accumulative potential	No information available	Water hazard class	No information available

Section 13 – Disposal Considerations

Waste residues and methods of disposal

This product has to be disposed in accordance with applicable regional, national and local laws and regulations. Surplus and non-recyclable components should be taken to a licensed waste disposal contractor for disposal.

Contaminated Packaging

Waste packaging should be recycled; however, since empty containers may retain some product residues, they should be taken to an approved waste handling site or given to a licensed waste disposal contractor for recycling or disposal, if recycling is not possible.

Section 14 – Transport Information

UN Number	None. Not regulated.
UN Proper shipping name	None. Not regulated.
Transport hazard class	Not classified as hazardous. Not regulated.
Packing group	Not applicable
Environmental hazard	No information available
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable
DOT (USA)	Not dangerous goods. Non-hazardous for transport.
IMDG	Not dangerous goods. Non-hazardous for maritime transport.
IATA	Not dangerous goods. Non-hazardous for air transport.
Special precautions	None



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Section 15 – Regulatory Information

United States		
HCS Classification	Not regulated	
U.S Federal Regulations		
TSCA 8(a) CDR Exempt/Partial exemption: Not determined		
United States inventory TSCA 8(b): Not determined		
SARA 302: No components are subject to the reporting requirements of SARA Title III, section 302		
SARA 304 Extremely Hazardous Substances Reportable Quantity: The product does not contain any components with a section 304 EHS RQ.		
SARA 311/312 Hazards Identification: Not regulated		
Clean Water Act (CWA) 307: This product does not contain any toxic pollutants listed under the U.S. Clean Water Act section 307.		
Clean Water Act (CWA) 311: This product does not contain any hazardous substances listed under the U.S. Clean Water Act section 311.		
Clean Air Act (CAA) 112 accidental release prevention: No products were found		
U.S. State Regulations	Component	CAS No.
Massachusetts	N/A	N/A
Right to Know:		
Pennsylvania	N/A	N/A
Right to Know:		
New Jersey	N/A	N/A
Right to Know:		
California Prop. 65	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.	
Canada WHMIS: Exempt		

Section 16 – Other Information

This product is labeled in accordance with CFR21 (Food and Drugs), Section 809.10.
The information contained herein has been compiled from data presented in various technical sources believed to be accurate. We make no warranties, express or implied, and assume no liability in connection with the use of this information. It is the user's responsibility to determine the suitability of this information and to assure the adoption of necessary safety precautions.
N/A = Not Applicable or Not Available
Date of SDS Preparation: 07/16/2015