ALFA WASSERMANN
Diagnostic Technologies, LLC

SAFETY DATA SHEET

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

Product name	Total Bilirubin Reagent
Catalog number	SA1008
Product use	For the quantitative determination of total bilirubin concentration in serum and lithium heparin plasma.
Company name	Alfa Wassermann Diagnostic Technologies, LLC
Company address	4 Henderson Drive West Caldwell, New Jersey 07006
Country	USA
Telephone number	1-800-220-4488
Fax number	1-973-276-0383
Email	info@alfawassermannus.com
Website	www.AWDT.us
Emergency telephone number	Toll Free: 1-866-419-ALFA (2532)

SECTION 2 – HAZARDS IDENTIFICATION

Hazard classification

Total Bilirubin Reagent: This product is considered hazardous according to OSHA 29 CFR 1910.1200.

Total Bilirubin Sodium Nitrite Reagent: This product is not hazardous according to OSHA 29 CFR 1910.1200.

GHS label elements



Signal word

Total Bilirubin Reagent: Danger and Corrosive.

General hazard

Total Bilirubin Reagent: Danger. Causes skin and eye burns. Prolonged exposure may cause chronic effects.

Total Bilirubin Sodium Nitrite Reagent: Health injuries are not known or expected under normal use.

Potential health effects

Routes of exposure Inhalation. Ingestion. Skin contact. Eye contact.

Other hazards

Routes of exposure	Total Bilirubin Reagent	Total Bilirubin Sodium Nitrite Reagent
Eyes	Causes eye burns.	May cause eye irritation and redness.
Skin	Causes skin burns.	May cause skin irritation.
Inhalation	In high concentrations, mists/vapors may irritate throat and respiratory system and cause coughing.	Vapors and mist may irritate throat and respiratory system and cause coughing.
Ingestion	Can burn mouth, throat and stomach.	May cause discomfort if swallowed.
Chronic effects	Prolonged skin contact may defat the skin and produce dermatitis.	No data available.

SECTION 3 – COMPOSITION/ INFORMATION ON INGREDIENTS

Hazardous Ingredients	CAS Number	%
Total Bilirubin Reagent		
Hydrochloric acid	7647-01-0	1 – 2
Sulphanilic acid	121-57-3	<1
Total Bilirubin Sodium Nitrite Reagent	There are no ingredients as hazardous according to OSHA 29 CFR 1910.1200.	

SECTION 4 – FIRST AID MEASURES

Skin contact	Remove contaminated clothing and wash with soap and plenty of water. Seek medical attention.
Eye contact	Immediately flush with plenty of water or eye wash solution for up to ten minutes. Seek medical attention.
Inhalation	Remove victim to fresh air. Seek medical attention.
Ingestion	Wash out mouth thoroughly with water. Seek medical attention.

SECTION 5 – FIRE-FIGHTING MEASURES

Flammable	No
Hazardous combustion products	**Total Bilirubin Reagent:** Hydrogen chloride gas. **Total Bilirubin Sodium Nitrite Reagent:** No data available.
Extinguishing media	Extinguish with water spray, carbon dioxide, dry chemical or material appropriate for the surrounding fire.
Protection of firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Firefighting instructions	Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing gloves appropriate protective clothing. Ensure adequate ventilation and treat material as you would hazardous materials.
Environmental precautions	Do not allow to enter drains, sewers or watercourses.
Methods for containment and cleaning up	Absorb spill with vermiculite or other inert material. Place in suitable container for prompt disposal. Label the container as potentially hazardous.

	Spill areas can be decontaminated with 0.5% sodium hypochlorite, e.g., a fresh 1:10 dilution of common household bleach. Dispose of waste in accordance with all applicable federal, state, local and provincial environmental regulations.

SECTION 7 – HANDLING AND STORAGE

Handling Wear safety glasses, disposable gloves and protective clothing. Wash thoroughly after handling. Handle and open container with care.

Storage Store at 18-26°C.

SECTION 8 – EXPOSURE CONTROL/ PERSONAL PROTECTION

Exposure limits

Total Bilirubin Reagent

Components	Type	Value
Hydrochloric acid (CAS 7647-01-0)	ACGIH TLV: Ceiling	2 ppm
	OSHA PEL: Ceiling	7 mg/m^3 5 ppm

Personal protective equipment ☑ Gloves ❒ Respirator ☑ Eye ❒ Footwear ☑ Clothing ❒ Other

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Properties	Total Bilirubin Reagent	Total Bilirubin Sodium Nitrite Reagent
Physical state	Liquid.	Liquid.
Color	Clear, colorless to pale pink.	Clear, colorless.
Odor	Mildly sulfurous.	Odorless.
Odor threshold	Not available.	Not available.
pH	1	5
Vapor pressure	Not available.	Not available.
Vapor density	Not available.	Not available.
Boiling point	Not available.	Not available.
Melting point/ Freezing point	Not available.	Not available.
Solubility in water	Soluble	Soluble
Specific gravity	1.088	1.03

SECTION 10 – STABILITY AND REACTIVITY

	Total Bilirubin Reagent	Total Bilirubin Sodium Nitrite Reagent
Chemical stability	Stable under normal conditions.	Stable under normal conditions.
Incompatible materials	Strong bases.	Strong oxidizing agents.
Hazardous decomposition products	Hydrogen chloride gas.	None known.
Conditions to avoid	None under normal conditions.	Protect against direct sunlight.
Possibility of hazardous reactions	Hazardous polymerization does not occur.	Hazardous polymerization does not occur.

SECTION 11 – TOXICOLOGICAL INFORMATION

Toxicological data

Total Bilirubin Reagent

Components	Test Results
Hydrochloric acid (CAS 7647-01-0)	Acute Inhalation LC50 Rat: 3124 mg/l, 1 hour Acute Oral LD50 Rabbit: 900 mg/kg

	Total Bilirubin Reagent	Total Bilirubin Sodium Nitrite Reagent
Sensitization	The product contains a small amount of sensitizing substance which may provoke an allergic reaction among sensitive individuals in contact with skin.	Not classified.
Acute effects	Hydrochloric acid solutions can readily release high concentrations of hydrogen chloride gas, which is very toxic and corrosive and poses a serious inhalation hazard.	May cause discomfort if swallowed.
Local effects	Irritating to respiratory system.	Ingestion may cause irritation on direct contact.
Chronic effects	Prolonged skin contact may defat the skin and produce dermatitis.	No data available.
Carcinogenicity	Not classified.	Not classified.

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicological data

Total Bilirubin Reagent

Components	Test Results
Hydrochloric acid (CAS 7647-01-0)	Aquatic Fish LC50 Western mosquitofish (Gambusia affinis) 282 mg/l, 96 hours

Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste disposal	Contaminated instruments and surfaces should be disinfected in accordance with your employer's chemical-specific and universal/ standard precautions. Dispose in accordance with all applicable regulations.

SECTION 14 – TRANSPORT INFORMATION

	Total Bilirubin Reagent	Total Bilirubin Sodium Nitrite Reagent
DOT/ IATA/ IMDG/ TDG	UN3264 Corrosive liquid, acidic, inorganic, n.o.s. (Hydrochloric acid solution)	Not regulated

SECTION 15 – REGULATORY INFORMATION	
US federal regulations	**Total Bilirubin Reagent:** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. **Total Bilirubin Sodium Nitrite Reagent:** This product is not hazardous as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
Hazard symbol	**Total Bilirubin Reagent:** Danger and corrosive.
Warnings	**Total Bilirubin Reagent:** Corrosive.

SECTION 16 – OTHER INFORMATION	
Supplier's notes	This safety data sheet has been complied, controlled and approved in accordance with the regulations in force. It is the user's responsibility to determine the suitability of this information for the adoption of necessary safety precautions. We reserve the right to revise the Safety Data Sheet periodically as new information becomes available.
Recommended restrictions on use	For in vitro diagnostic use only.
Disclaimer of expressed and implied warranties	Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representation as to the accuracy or completeness of the information contained herein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purposes.
Preparation information	P/N 701197-17 Rev E 8/14

END OF SDS