

Bilirubin Standard Solution

SAFETY DATA SHEET

Version 1.01
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1. PRODUCT AND COMPANY IDENTIFICATION

Product identifiers

Product name: Bilirubin Standard
Product number: BL-0010

Manufacturer or supplier's details

Company: Molecular Tools, LLC
Phone:
Address: 4539 Metropolitan ct., Frederick, MD, 21704, USA
<http://molecular-tools.com/>
E-mail: info@molecular-tools.com

Recommended use of the chemical and restrictions on use

Recommended use: Laboratory chemicals

2. HAZARDS IDENTIFICATION

Signal word

Warning

Hazard Statement(s)

H315:Causes skin irritation.
H319:Causes serious eye irritation.
H335:May cause respiratory irritation.



General Risk: Avoid inhalation, contact with skin or eyes, and ingestion. Always use personal protective equipment when handling this compound. (Additional information may be included in SDS sheet)

Precautionary Statements

P233-Keep container tightly closed.

P233-Store in a well-ventilated place. Keep container tightly closed.

P261-Avoid breathing dust/fume/gas/mist/vapours/spray.

P264-Wash hands thoroughly after handling.

P264-Wash skin thoroughly after handling.

P271-Use in a well-ventilated area.

P280-Wear protective gloves/protective clothing/eye protection/face P302-IF ON SKIN Wash with plenty of soap and water

P304-IF INHALED Remove victim to fresh air and keep at rest in a comfortable position for breathing.

P305-IF IN EYES Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P312-Call a POISON CENTER or doctor/physician if you feel unwell.

P313-IF exposed or concerned: Get medical advice/attention.

P321-Specific treatment (see†& on this label). P332-IF SKIN irritation occurs:

P337-If eye irritation persists:

P338-Remove contact lenses, if present and easy to do. Continue rinsing.

P340-Remove victim to fresh air and keep at rest in a position comfortable for breathing. P351-Rinse cautiously with water for several minutes.

P352-Wash with plenty of soap and water.

P362-Take off contaminated clothing and wash before reuse. P403-Protect from sunlight. Store in a well-ventilated place.

P501-Dispose of contents/container to appropriate regulated hazardous waste stream

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance form:	Solid
Substance name:	Bilirubin (alpha)
CAS No:	635-65-4
Formula:	C33H36N4O6
FSSI Number:	500068167

4. FIRST AID MEASURES

Description of first aid measures

Inhalation: Remove to fresh air. In cases of serious discomfort seek medical attention. If not breathing, trained personnel should administer oxygen or artificial respiration.

Eye Contact: Flush with copious amounts of water for at least 20 minutes. Seek immediate medical attention.

Skin Contact: Remove contaminated clothing. Rinse affected area with copious amounts of water. Rinse thoroughly. In case of skin damage or persistent irritation seek immediate medical attention. Show the physician the container details.

Storage: Refer to Bottle label for storage information

Ingestion: Call a physician or poison control center immediately. Induce vomiting only if instructed to do so by medical personnel. Seek immediate medical attention.

5. FIREFIGHTING MEASURES

Extinguishing Medium

Use fire fighting measures which suit the environment and take into account other materials which may be involved. Use carbon dioxide or dry powder for fires involving this material. In general, water-based extinguishers are not recommended for fires involving organic materials.

Protective Equipment

Wear self-contained breathing apparatus and protective clothing. Most compounds emit toxic gases when burning.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Avoid breathing vapors, mist or gas. For personal protection see section 8.

Environmental precautions

No special environmental precautions required.

Methods and materials for containment and cleaning up

Keep in suitable, closed containers for disposal.

Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

Precautions for safe handling

For precautions see section 2.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Storage class (TRGS 510): Non Combustible Liquids.

Specific end use(s)

Apart from the uses mentioned in section 1 no other specific uses are stipulated.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Components with workplace control parameters.

Contains no substances with occupational exposure limit values.

Exposure controls

Appropriate engineering controls

General industrial hygiene practice.

Personal protective equipment Eye/face protection

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, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

No special environmental precautions required.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

- a) Appearance/Form : liquid
- b) Odor : No data available
- c) Odor Threshold : No data available
- d) pH 7.4
- e) Melting point/freezing point : No data available
- f) Initial boiling point and boiling range : No data available
- g) Flash point : No data available
- h) Evaporation rate : No data available
- i) Flammability (solid, gas) : No data available
- j) Upper/lower flammability or explosive limits : No data available
- k) Vapor pressure : No data available
- l) Vapor density : No data available
- m) Relative density: No data available
- n) Water solubility: No data available
- o) Partition coefficient: n- octanol/water : No data available
- p) Auto-ignition temperature : No data available
- q) Decomposition temperature : No data available
- r) Viscosity : No data available
- s) Explosive properties : No data available
- t) Oxidizing properties : No data available

Other safety information : No data available

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

No data available

Conditions to avoid

No data available

Incompatible materials

Strong oxidizing agents

Hazardous decomposition products

Other decomposition products - No data available. In the event of fire: see section 5.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity: No data available

Inhalation: No data available

Dermal: No data available No data available

Skin corrosion/irritation: No data available

Serious eye damage/eye irritation: No data available

Respiratory or skin sensitization: No data available

Germ cell mutagenicity: No data available

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.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

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 identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: No data available No data available

Specific target organ toxicity - single exposure: No data available

Specific target organ toxicity - repeated exposure: No data available

Aspiration hazard: No data available

Additional Information RTECS: Not available

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

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 assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Product:	Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated packaging:	Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

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.

SARA 311/312 Hazards

No SARA Hazards

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

Water CAS-No. 7732-18-5

Sodium monohydrogen phosphate, heptahydrate 7782-85-6

New Jersey Right To Know Components

Water CAS-No. 7732-18-5

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

HMIS Rating	0
Health hazard:	0
Chronic Health Hazard:	0
Flammability:	0
Physical Hazard	0
NFPA Rating	
Health hazard:	0
Fire Hazard:	0

Reactivity Hazard: 0

Further information:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Molecular Tools, LLC and its affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.