

# SAFETY DATA SHEET

Creation Date 19-Mar-2010

Revision Date 19-Jan-2018

**Revision Number** 3

### 1. Identification

Product Name B	Bilirubin
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AC230220000; AC230220010; AC230220050; AC230225000

CAS-No Synonyms

Cat No. :

635-65-4 21H-Biline-8,12-Dipropanoic Acid, 2,17-Diethenyl-1,10,19,22,23,24-Hexahydro-3,7; Biline-

Recommended Use Uses advised against Laboratory chemicals. Not for food, drug, pesticide or biocidal product use

#### Details of the supplier of the safety data sheet

<u>Company</u> Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

Acros Organics One Reagent Lane Fair Lawn, NJ 07410

#### **Emergency Telephone Number**

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No.**US**:001-800-424-9300 / **Europe**:001-703-527-3887

## 2. Hazard(s) identification

#### **Classification**

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Based on available data, the classification criteria are not met

Label Elements None required

Hazards not otherwise classified (HNOC)

None identified

## 3. Composition/Information on Ingredients

Component	CAS-No	Weight %
21H-Biline-8,12-dipropanoic acid,	635-65-4	>95
2,17-diethenyl-1,10,19,22,23,24-hexahydro-3,7,13,		
18-tetramethyl-1,19-dioxo-		

	4. First-aid measures
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.
Inhalation	Move to fresh air. Get medical attention immediately if symptoms occur. If not breathing, give artificial respiration.
Ingestion	Do not induce vomiting. Obtain medical attention.
Most important symptoms and	No information available.
effects Notes to Physician	Treat symptomatically

5. Fire-fighting measures

Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

#### **Specific Hazards Arising from the Chemical**

Keep product and empty container away from heat and sources of ignition.

#### Hazardous Combustion Products

Carbon monoxide (CO) Carbon dioxide (CO<sub>2</sub>) Nitrogen oxides (NOx)

#### Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA Health 1	Flammability 1	Instability 0	Physical hazards N/A				
	6. Accidental re	lease measures					
Personal Precautions Environmental Precautions	Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation. Should not be released into the environment. See Section 12 for additional ecological information.						
Methods for Containment and Clean Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dustUpformation.							
	7. Handling	and storage					
Handling		equipment. Ensure adequate ve ngestion and inhalation. Avoid d	ntilation. Avoid contact with skin, ust formation.				
Storage	Keep away from direct sun	light. Keep container tightly clos	sed in a dry and well-ventilated				

### place. Store in freezer.

	8. Exposure controls / personal protection
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.
Engineering Measures	None under normal use conditions.
Personal Protective Equipme	ent
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
<b>Respiratory Protection</b>	No protective equipment is needed under normal use conditions.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

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Physical State	Solid
Appearance	Red brown
Odor	Odorless
Odor Threshold	No information available
рН	No information available
Melting Point/Range	192 °C / 377.6 °F
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	Insoluble in water
Partition coefficient; n-octanol/wa	ter No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C33 H36 N4 O6
Molecular Weight	584.67

## 10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions. Light sensitive.
Conditions to Avoid	Incompatible products. Excess heat. Avoid dust formation. Exposure to light.
Incompatible Materials	Strong oxidizing agents
Hazardous Decomposition Product	<b>s</b> Carbon monoxide (CO), Carbon dioxide (CO₂), Nitrogen oxides (NOx)

Hazardous Polymerization	Hazardous polymerization does not occur.								
Hazardous Reactions	None under normal processing.								
11. Toxicological information									
Acute Toxicity			mation						
Product Information Component Information Toxicologically Synergistic Products Delayed and immediate effects as w	No information ava		d long-term expc	osure_					
Irritation	No information ava	ailable							
Sensitization	No information ava	ailable							
Carcinogenicity	The table below in	dicates whether ea	ich agency has lis	ted any ingredient	as a carcinogen.				
Component CAS-No   21H-Biline-8,12-diprop anoic acid, 635-65-4   2,17-diethenyl-1,10,19, 22,23,24-hexahydro-3,   7,13,18-tetramethyl-1, 19-dioxo- 19-dioxo-	IARC NTP ACGIH OSHA Mer   Not listed Not listed Not listed Not listed Not								
Mutagenic Effects	No information ava	No information available							
Reproductive Effects	No information ava	ailable.							
Developmental Effects	No information ava	No information available.							
Teratogenicity	No information ava	No information available.							
STOT - single exposure STOT - repeated exposure	None known None known								
Aspiration hazard	No information available								
Symptoms / effects,both acute and delayed	No information available								
Endocrine Disruptor Information	No information ava	ailable							
Other Adverse Effects	The toxicological properties have not been fully investigated.								
	12. Ecolo	ogical infor	mation						
<u>Ecotoxicity</u> Do not empty into drains.									
Persistence and Degradability	Insoluble in water								
<b>Bioaccumulation/ Accumulation</b>	No information ava	ailable.							
Mobility	Is not likely mobile	in the environmen	t due its low wate	r solubility.					
	13. Dispo	sal conside	erations						
Waste Disposal Methods	Chemical waste ge	enerators must det	ermine whether a	discarded chemica	al is classified as a				

hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

	14. Transport information
DOT TDG IATA	Not regulated
TDG	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated
	15. Regulatory information

#### International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
21H-Biline-8,12-dipropanoic	Х	Х	-	211-239-7	-		Х	Х	Х	Х	-
acid,											
2,17-diethenyl-1,10,19,22,23,											
24-hexahydro-3,7,13,18-tetra											
methyl-1,19-dioxo-											

Legend: X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b)	Not applicable
SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
<b>OSHA</b> Occupational Safety and Health Not applicable	n Administration
CERCLA	Not applicable
California Proposition 65	This product does not contain any Proposition 65 chemicals
U.S. State Right-to-Know Regulations	Not applicable
U.S. Department of Transportation	
Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N

#### U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

#### Other International Regulations

Mexico - Grade	No information available
16. Other information	
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Creation Date Revision Date Print Date Revision Summary	19-Mar-2010 19-Jan-2018 19-Jan-2018 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

## **End of SDS**