

3159 Corporate Place, Hayward, CA 94545 U.S.A. Tel: 1-510-265-1027; Fax: 1-510-265-1352 btinfo@biotium.com http://www.biotium.com/

## MATERIAL SAFETY DATA SHEET

Date Revised: June 30, 2014

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:	Tetramethylrhodamine cadaverine (mixed isomers) (5-(and-6)-((N-(5-aminopentyl) amino) carbonyl) tetramethylrhodamine)
Catalog Number:	92001
Unit Size:	10mg
Manufacturer/Supplier:	Biotium, Inc.
	3159 Corporate Place, Hayward, CA 94545, USA
	Phone: 1-510-265-1027, Fax: 1-510-265-1352
	Web: http://www.biotium.com

## 2. HAZARDS IDENTIFICATION

Classification according to Regulation (EC) No 1272/2008[CLP] None Classification according to Directive 1999/45/EC None

Labeling according to Regulation (EC) No 1272/2008[CLP] Hazard pictogram None Signal word None Hazard statements None Precautionary statements None

#### HMIS Classification Health hazard: 0

Flammability: 0 Physical hazards: 0 **NFPA Rating** Health hazard: 0 Fire: 0 Reactivity Hazard: 0

Name	CAS No.	EC No.	Index No.	Weight %	Classification according to 67/548/EEC	Classification according to regulation (EC)No1278/2008
Tetramethylrhod amine cadaverine	-	-	-	≥95%	-	-

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

## 4. FIRST- AID MEASURES



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#### **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area. **If inhaled** 

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

## In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

## 5. FIREFIGHTING MEASURES

## Suitable extinguishing media

Carbon dioxide, dry chemical extinguishers, foam extinguishers or water. Special protective equipment for firefighters

Wear self contained breathing apparatus for firefighting if necessary.

## 6. ACCIDENTAL RELEASE MEASURES

## Personal precautions

Avoid breathing vapors, mist or gas. Remove all sources of ignition. **Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. **Methods and materials for containment and cleaning up** Contain spillage. Soak up spilled substance with inert absorbent material. Keep in suitable, closed containers for disposal.

## 7. HANDLING AND STORAGE

## Precautions for safe handling

Avoid inhalation of vapor or mist. Avoid direct contact with substance. **Conditions for safe storage** Keep container tightly closed in a dry and well-ventilated place. Store desiccated at 4°C. Protect from light.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parametersSubstanceTetramethylrhodamine cadaverineControl parametersNo information available

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## Personal protective equipment

## Hand 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.

## **Respiratory protection**

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## Eye protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Chemical Name	Tetramethylrhodamine
	cadaverine
Appearance	Dark Purple Solid
Odor	No information available
Odor threshold	No information available
рН	No information available
Melting point/freezing point	No information available
Boiling point	No information available
Flash point	No information available
Evaporate rate	No information available
Flammability	No information available
Explosive limits	No information available
Vapor pressure	No information available
Vapor density	No information available
Relative density	No information available
Solubility	Soluble in DMFor DMSO
Partition coefficient:n-octanol/water	No information available
Auto-ignition temperature	No information available
Decomposition temperature	No information available
Viscosity	No information available
Explosive properties	No information available
Oxidizing properties	No information available

## 10. STABILITY AND REACTIVITY

## **Chemical stability**

Stable under recommended storage conditions. **Possibility of hazardous reactions** No data available **Conditions to avoid** Heat, flames and sparks.

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Materials to avoid No data available Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides Other decomposition products - no data available

## 11. TOXICOLOGICAL INFORMATION

Acute toxicity				
Oral LD50	None			
Inhalation	LC50 None			
Dermal LD	50 None			
	rmation on acute toxicity	no data available		
	ation no data available			
	<b>je/eye irritation</b> no data availa			
	sensitization no data availa			
Germ cell mutagenicity no data available		ble		
Carcinogenicity				
		els greater than or equal to 0.1% is identified as		
	r confirmed human carcinoger			
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a				
• .	tial carcinogen by ACGIH.			
•		els 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				
	an toxicity - single exposure	e (Globally Harmonized System)		
no data available				
Specific target organ toxicity - repeated exposure (Globally Harmonized System)				
no data available				
Aspiration hazard				
Potential health effects				
Inhalation May be harmful if inhaled. May cause respiratory tract irritation.				
	lay be harmful if swallowed.			
-	-	ough skin. May cause skin irritation.		
	ay cause eye irritation.	Sugn Skin. May cause skin initiation.		
Additional Information				
RTECS: None				

## 12. ECOLOGICAL INFORMATION

Toxicityno information availablePersistence and degradabilityno information availableBiodegradationno information availableMobility in soilno information availableResults of PBT and vPvB assessmentno information available



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Other adverse effectsno information availableAdditional informationno information available

## 13. DISPOSAL CONSIDERATIONS

Do not dispose product directly into sewage. Consult local state or national regulation for proper disposal.

#### 14. TRANSPORT INFORMATION

IATA, IMDG, DOT(US) not dangerous good during transportation

UN number none UN proper shipping name none Transport hazard class none Packing group none Environmental hazards none Special precaution for user none

## 15. REGULATION INFORTMATION

#### **US Federal Regulations**

Us Toxic Substances Control Act(TSCA): Not listed SARA 302: No chemicals were found. SARA 313: No chemicals were found. SARA 311/312 Hazards: No chemicals were found.

## 16. OTHER INFORMATION

Classification according to Regulation (EC) Nr. 1272/2008

 Prepared by:
 Regulatory Department

 Biotium Inc.
 Biotium Inc.

 Version no.
 2

 Reason for revision
 Application of CLP labeling and corresponding requirements

The information provided above is believed to be correct to our best knowledge, but does not purport to be all inclusive, and shall be used only as a guide. This material is sold for research purposes only and is not required to appear on the TSCA inventory. It is not intended for food, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. Biotium shall not be held liable for any damage resulting from handling or contact with the above product.