

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: April 4, 2013

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:Fluo-3, 5NH4+Catalog Number:50010Unit Size:1mgManufacturer/Supplier:Biotium, Inc.3159 Corporate Place, Hayward, CA 94545, USAPhone:1-510-265-1027, Fax: 1-510-265-1352Web: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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS No.	EC No.	Index No.	Weight %	Classification according to 67/548/EEC	Classification according to regulation (EC)No1278/2008
Fluo-3, 5NH₄ ⁺	134907-84-9	-	-	≥80%	-	-

4. FIRST- AID MEASURES

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.

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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 at 4° C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parametersSubstanceFluo-3, 5NH4+CAS no.134907-84-9Control parameterNo information available

Personal protective equipment Hand protection



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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	Fluo-3, 5NH4 ⁺		
Appearance	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 DMSO or water (pH>6)		
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		
Oxidising 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. **Materials to avoid** **Biotium**

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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 LD50 None Other information on acute toxicity no data available Skin corrosion/irritation no data available Serious eye damage/eye irritationno data available Respiratory or skin sensitization no data available no data available Germ cell mutagenicity 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 Specific target organ toxicity - single exposure (Globally Harmonized System) no data available Specific target organ toxicity - repeated exposure (Globally Harmonized System) no data available Aspiration hazard no data available Potential health effects Inhalation May be harmful if inhaled. May cause respiratory tract irritation. Ingestion May be harmful if swallowed. Skin May be harmful if absorbed through skin. May cause skin irritation. Eyes May cause eye irritation. 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 availableOther adverse effectsno information available



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Additional information no 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.
 Version no.

 Version 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.