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MATERIAL SAFETY DATA SHEET

Date Revised: November 20, 2013

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:	NBD Fluoride (4-fluoro-7-nitrobenzo-2-oxa-1,3-diazole)			
Catalog Number:	90046			
Unit Size:	25mg			
Manufacturer/Supplier:	Biotium, Inc.			
	3159 Corporate Place, Hayward, CA 94545, USA			
	Phone: 1-510-265-1027, Fax: 1-510-265-1352			
	Web: <u>http://www.biotium.com</u>			

2. HAZARDS IDENTIFICATION

Classification according to Regulation (EC) No 1272/2008[CLP] Skin irritation (Category 2) Eye irritation (Category 2A)

Labeling according to Regulation (EC) No 1272/2008[CLP] Hazard pictogram



 Signal word Warning

 Hazard statements

 H315
 Causes skin irritation

 H319
 Causes serious eye irritation.

 Precautionary statements

 P305 + P351 + P338
 IF IN EYES: Rinse cautiously with water for several minutes. . Remove contact lenses, if present and easy to do. Continue rinsing.

HMIS Classification Health hazard: 2 Flammability: 1

Physical hazards: 0 **NFPA Rating** Health hazard: 2 Fire: 1 Reactivity Hazard: 0

3. COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS No.	EC No.	Index No.	Weight %	Classification according to regulation (EC)No1278/2008
NBD fluoride	29270-56-2	-	-	80-100%	Skin irritation (Category 2) Eye irritation (Category 2A)



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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. 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 -20 °C.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters Substance NBD fluoride

CAS no. 29270-56-2

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.

Chemical Name	NBD fluoride
Appearance	Solid
Odor	No information available
Odor threshold	No information available
рН	No information available
Melting point/freezing point	Melting point/range: 52 - 54 °C (126 - 129 °F)
Boiling point	No information available
Flash point	113 °C (235 °F) - closed cup
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	No information available
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

9. PHYSICAL AND CHEMICAL PROPERTIES

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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 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					
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					
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					



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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 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.

 Version no.
 2

 Reason for revision
 Application of CLP labeling and corresponding requirements



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