Supplier of fluorescent and related biochemical reagents for life science research and drug discovery Glowing Products for ScienceTM

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SAFETY DATA SHEET

Date: October 25, 2016

PRODUCT AND COMPANY IDENTIFICATION
 Product Name: Aniline, 10X in acetate buffer
 Catalog Number: 91057
 Unit Size: 10mL
 Manufacturer/Supplier: Biotium, Inc.
 46117 Landing Parkway, Fremont, CA 94538, 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] Acute Tox. 3 Skin Sens. 1 Eye Dam. 1 Muta. 2 Carc. 2 STOT RE 1 Aquatic Acute 1

Flam. Liq. 3 Skin Corr. 1A **Classification according to Directive 1999/45/EC** Carc. Cat. 3; R40 Muta. Cat. 3; R68 T; R23/24/25-48/23/24/25 Xi; R41 R43 N; R50

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



Signal word Danger **Hazard statements** H226 Flammable liquid and vapour H301 Toxic if swallowed H311 Toxic in contact with skin May cause an allergic skin reaction H317 H318 Causes serious eye damage H331 Toxic if inhaled H341 Suspected of causing genetic defects Suspected of causing cancer H351 H372 Causes damage to organs through prolonged or repeated exposure H400 Very toxic to aquatic life

Precautionary statements

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P260	Do not breathe dust/fumes/gas/mist/vapours/spray	
P262	Do not get in eyes, on skin, or on clothing	
P264	Wash thoroughly after handling	
P271	Use only outdoors or in a well-ventilated area	
P280	Wear protective gloves/protective clothing/eye protection/face protection	
P282	Wear cold insulating gloves/face shield/eye protection	
P301 + P310 + P330	IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth	
P302 + P352 + P312	IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or	
doctor/ physician if you feel unwell		
P304 + P340 + P311	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a	
POISON CENTER/doc	stor	
P305 + P351 + P338 +	- P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact	
lenses, if present and e	easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor	
P403 + P233		
HMIS Classification		
Health hazard: 0		

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 regulation (EC)No1278/2008
Aniline	62-53-3	200-539-3	612-008- 00-7	<5%	Flam. Liq. 4; Acute Tox. 3; Eye Dam. 1; Skin Sens. 1; Muta. 2; Carc. 2; STOT RE 1; Aquatic Acute 1
Acetic acid	64-19-7	200-580-7	607-002- 00-6	<5%	Flam. Liq. 3; Skin Corr. 1A; Eye Dam. 1

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**

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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 parameters Substance Aniline

Value	Control parameter	Basis
TWA	2ppm	USA. ACGIH Threshold Limit Values (TLV)

Substance Acetic acid

Value	Control parameter	Basis
TWA	10.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)

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

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Chemical Name	Aniline, 10X in acetate buffer
Appearance	Light yellow liquic
Odor	Faint
Odor threshold	None
рН	4.5
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
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. 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 - Aniline
 Rat - 250 mg/kg

 Oral LD50
 Rat - 250 mg/kg

 Inhalation LC50
 - Mouse - 4 h - 248 ppm

 Dermal LD50
 Rabbit - 836 mg/kg

 Other information
 no data available

 Skin corrosion/irritation
 None

 Serious eye damage/eye
 irritation Rabbit - Severe eye irritation

 Respiratory or skin sensitization
 May cause sensitisation by skin contact

 Germ cell mutagenicity
 Laboratory experiments have shown mutagenic effects. In vitro tests

 showed mutagenic effects
 Serious eye shown mutagenic effects. In vitro tests

 Oral LD50
 Rat - 3,310 mg/kg

 Inhalation LC50
 Mouse - 1 h - 5620 ppm ; - Rat - 4 h - 11.4 mg/l

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Dermal LD50 - Rabbit - 1,112 mg/kg Other information on acute toxicity no data available Skin corrosion/irritation Rabbit- Causes severe burns. Serious eye damage/eye irritation Rabbit- Corrosive to eyes 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: Aniline: BW6650000 ; Acetic acid: AF1225000

12. ECOLOGICAL INFORMATION

Toxicity	Aniline- LC50 - Oncorhynchus mykiss (rainbow trout) - 10.6 mg/l - 96.0 h EC50 - Daphnia magna (Water flea) - 80 - 380 mg/l - 48 h semi-static test EC50 - Daphnia magna (Water flea) - 0.16 mg/l - 48 h EC50 - SELENASTRUM - 19 mg/l - 72 h
	Acetic acid semi-static test LC50 - Oncorhynchus mykiss (rainbow trout) - > 1,000 mg/l - 96 h
Persistence and	EC50 - Daphnia magna (Water flea) - > 300.82 mg/l - 48 h
	C
Biodegradation	Aniline aerobic - Exposure time 30 d Result: 90 % - Readily biodegradable
	Acetic acid - aerobic - Exposure time 30 d Result: 99 % - Readily biodegradable
Mobility in soil Results of PBT Other adverse of Additional info	

13. DISPOSAL CONSIDERATIONS



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

14. TRANSPORT INFORMATION

IATA, IMDG, DOT (US)

UN number 1548 UN proper shipping name Aniline, 10X in acetate buffer Transport hazard class 6.1 Packing group III 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 Refer to section 2 and section 3

Prepared by: Regulatory Department Biotium Inc. Version no. 2

Reason for revision Correction to section 14.

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.