

# SAFETY DATA SHEET

Applies to part numbers: AC2212, AC2213, S1047

## Section 1 Product and company identification

Product name: **Flash Buffer A**  
 Supplier: Azure Biosystems  
 Address: 6747 Sierra Court, Suite A-B  
 Dublin, CA 94568

Recommended Use: For research use only.

Restrictions on Use: Not for clinical use. Not for internal use in animals or humans. Not for diagnostic use. Not for household or any other unintended use.

## Section 2 Hazards identification

### EMERGENCY OVERVIEW:

OSHA HAZARDS Target organ effect, toxic by inhalation, toxic by ingestion, highly toxic by skin absorption, corrosive

TARGET ORGANS Kidney, lungs

GHS CLASSIFICATION: Acute toxicity, oral (category 4)  
 Acute toxicity, inhalation (category 4)  
 Acute toxicity, dermal (category 3)  
 Skin irritation (category 2)  
 Serious eye damage (category 1)  
 Skin sensitization (category 1)  
 Acute aquatic toxicity (category 1)  
 Chronic aquatic toxicity (category 1)

HMIS RATING	
HEALTH	3
FLAMMABILITY	0
REACTIVITY	0

NFPA RATING	
HEALTH	3
FLAMMABILITY	0
REACTIVITY	0

For additional information on toxicity, please refer to Section 11.

## Section 3 Composition/Information on Ingredients

Ingredient	CAS #	%
Glycerol	56-81-5	10-30%
2-Mercaptoethanol	60-24-2	1-5%
Sodium dodecyl sulphate	151-21-3	1-5%
Bromophenol blue	115-39-9	<0.1%
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	1185-53-1	1-5%

## Section 4 First Aid Measures

GENERAL ADVICE Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.

ORAL EXPOSURE If swallowed, wash out mouth with water provided person is conscious. Call a physician.

INHALATION EXPOSURE If inhaled, remove to fresh air. If not breathing give artificial respiration. Call a physician.

## DERMAL EXPOSURE

In case of contact, immediately wash skin with soap and copious amounts of water. Take victim immediately to hospital. Call a physician.

## EYE EXPOSURE

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Continue rinsing eyes during transport to the hospital. Call a physician.

**Section 5 Fire Fighting Measures**

FLASH POINT N/A

AUTOIGNITION TEMP N/A

FLAMMABILITY N/A

## EXTINGUISHING MEDIA

Suitable: Water spray. Alcohol-resistant foam, dry chemical or carbon dioxide.

Not suitable: Not known

## FIREFIGHTING

Protective Equipment: Wear self-contained breathing apparatus for firefighting if necessary.

## HAZARDOUS COMBUSTION PRODUCTS

Hazardous decomposition products formed under fire conditions: carbon oxides, nitrogen oxides (NOx), sulphur oxides, hydrogen chloride gas, sodium oxides.

**Section 6 Accidental Release Measures**

## PERSONAL PRECAUTIONS

Wear respirator protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe area.

## ENVIRONMENTAL PRECAUTIONS

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

## METHODS FOR CLEANING UP

Absorb with an inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

**Section 7 Handling and Storage**

## HANDLING

User Exposure: Avoid contact with skin and eyes. Avoid inhalation of vapors or mist.

## STORAGE

Suitable: Keep tightly closed in a dry and well-ventilated place. Carefully reseal containers and keep upright to prevent leakage. Store at room temperature.

**Section 8 Exposure Controls / PPE**

Components	CAS-No	Value	Control parameters	Basis
Glycerol	56-81-5	TWA	10 mg/m3	USA. OSHA – Table Z-1 Limits for air contaminants – 1910.1000
		TWA	5 mg/m3	USA. OSHA – Table Z-1 Limits for air contaminants – 1910.1000
		TWA	10 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
Remarks	Upper respiratory tract irritation			
		TWA	15 mg/m3	USA. OSHA – Table Z-1 Limits for air contaminants
		TWA	5 mg/m3	USA. OSHA – Table Z-1 Limits for air contaminants
2-mercaptoethanol	60-24-2	TWA	0.2 ppm	USA. Workplace Environmental Exposure Levels (WEEL)
Remarks	Skin			

## PERSONAL PROTECTIVE EQUIPMENT

## Respiratory:

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## Hand:

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.

Eye: Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body: Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

GENERAL HYGIENE MEASURES: Avoid contact with skin, eyes and clothing. Wash thoroughly after handling.

## **Section 9 Physical and chemical properties**

Appearance Physical State: Intense blue colored liquid.

## **Section 10 Stability and Reactivity**

STABILITY: Stable under recommended storage conditions.

Materials to Avoid: Strong bases, acids, oxidizing agents, metals.

### HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Hazardous decomposition products formed under fire conditions: carbon oxides, nitrogen oxides (NOx), sulphur oxides, hydrogen chloride gas.

## **Section 11 Toxicological Information**

### ROUTE OF EXPOSURE

Skin: May be fatal if absorbed through skin. Causes skin burns.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: Causes eye burns.

Inhalation: Toxic if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

Ingestion: Toxic if swallowed.

### SIGNS AND SYMPTOMS OF EXPOSURE

Burning sensation, cough, wheezing, laryngitis, shortness of breath, headache, weakness, nausea, unconsciousness.

## **Section 12 Ecological Information**

Very toxic to aquatic life.

## **Section 13 Disposal Considerations**

### APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION:

Observe all federal, state, and local environmental regulations.

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

## **Section 14 Transport Information**

### DOT

Proper Shipping Name: None

Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

### IATA

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s. (2-mercaptoethanol)

**Section 15 Regulatory Information**

OSHA Hazards:	Target Organ Effect, Toxic by inhalation, Toxic by ingestion, Highly toxic by skin absorption, Corrosive
SARA 311/312	Acute Health Hazard, Chronic Health Hazards
Massachusetts right to know components	Glycerol, 2-mercaptoethanol
Pennsylvania right to know components	Water, glycerol, 2-mercaptoethanol, sodium dodecyl sulphate
New Jersey right to know components	Water, glycerol, 2-mercaptoethanol, 2-amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride, sodium dodecyl sulphate
California Prop. 65 Components	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**Section 16 Other information**

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For R&D use only. Not for drug, household or other uses.

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