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MATERIAL SAFETY DATA SHEET

Section 1 Product and company identification

Product name: **AzureRed Fluorescent Protein Stain Powder A**
Supplier: Azure Biosystems, Inc.
Address: 6761 Sierra Court Suite F
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

CLASSIFICATION Skin Irritant 2. Eye Irritant 2.
SIGNAL WORD Warning
HAZARD STATEMENTS H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation.
PRECAUTIONARY STATEMENTS P280 - Wear protective gloves/protective clothing/eye protection/face protection P302+ P352 - IF ON SKIN: Wash with plenty of soap and water P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Section 3 Composition/Information on Ingredients

Ingredient	CAS #	%
Citric acid	77-92-9	100

There are no other ingredients present which within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous according to the OSHA Hazard Communications Standard (29 CFR 1910.1200) and require reporting in this section.

Section 4 First Aid Measures

ORAL EXPOSURE Clean mouth with water and afterwards drink plenty of water
INHALATION EXPOSURE Move to fresh air. If breathing becomes difficult, give oxygen.
DERMAL EXPOSURE Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.
EYE EXPOSURE Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
NOTES TO PHYSICIAN Treat symptomatically.

Section 5 Fire Fighting Measures

FLASH POINT Not determined
FLAMMABILITY Not flammable
SUITABLE EXTINGUISHING MEDIA Use dry chemical, CO₂, water spray, or alcohol-resistant foam
HAZARDOUS COMBUSTION PRODUCTS Carbon oxides.
EXPLOSION DATA
Sensitivity to mechanical impact Not sensitive
Sensitivity to static discharge Not sensitive
PROTECTIVE EQUIPMENT AND PRECAUTIONS As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
SPECIFIC HAZARDS ARISING FROM THE CHEMICALS. Dusts or fumes may form explosive mixtures in air.

Section 6 Accidental Release Measures

PERSONAL PRECAUTIONS	Avoid contact with skin, eyes and clothing. Use personal protective equipment. Ensure adequate ventilation.
METHODS FOR CONTAINMENT	Prevent further leakage or spillage if safe to do so.
METHODS FOR CLEANING UP	Avoid dust formation. Pick up and transfer to properly labeled containers. Ventilate area and wash spill site after material pickup is complete.

Section 7 Handling and Storage

HANDLING	Handle in accordance with good industrial hygiene and safety practice.
STORAGE	Keep containers tightly closed in a dry, cool and well-ventilated place.
INCOMPATIBLE PRODUCTS	Bases. Reducing agents. Oxidizing agents. Nitrates.

Section 8 Exposure Controls / PPE

EXPOSURE LIMITS

ACGIH TLV	N/A
NIOSH REL	N/A
OSHA PEL	N/A

ENGINEERING MEASURES

Showers
Eyewash stations
Ventilation systems

PERSONAL PROTECTIVE EQUIPMENT

Respiratory:	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations. Maintain adequate ventilation.
Eye:	Safety goggles with side-shields. Avoid contact with eyes..
Skin:	Wear protective gloves and clothing.

GENERAL HYGIENE MEASURES:

Handle in accordance with good industrial hygiene and safety practice.

Section 9 Physical and chemical properties

Appearance:	White
Odor	No information available
Odor threshold:	No information available
Decomposition temperature °C :	No information available
Freezing point:	No information available
Initial boiling point:	No information available
Physical state:	Crystalline powder
pH	No data available
Flash point	Not determined
Autoignition temperature	No data available
Boiling point/range	No data available
Melting point/range	No data available
Flammability limits in air	Upper: No data available Lower: No data available
Explosive properties	No information available
Oxidizing properties	No information available
Evaporation rate	No data available
MMHG @ 37.8°C	No data available
Vapor density	No data available
Specific gravity	No data available
Solubility	No information available
Partition coefficient (n-octanol/water)	No data available
Viscosity	No information available

Section 10 Stability and Reactivity

STABILITY	Stable under recommended storage conditions.
INCOMPATIBLE PRODUCTS	Bases, reducing agents, oxidizing agents, nitrates.
CONDITIONS TO AVOID	None known based on information supplied.

HAZARDOUS DECOMPOSITION PRODUCTS Carbon oxides.
 HAZARDOUS POLYMERIZATION Hazardous polymerization does not occur.

Section 11 Toxicological Information

ACUTE TOXICITY Irritating to eye, skin and respiratory system.
 CHRONIC TOXICITY No known effect based on information supplied
 TARGET ORGAN EFFECTS None known

Section 12 Ecological Information

ECOTOXICITY The environmental impact of this product has not been fully investigated.

Section 13 Disposal Considerations

WASTE DISPOSAL Dispose of material in accordance with all federal, state, and local regulations.
 CONTAMINATED PACKAGING Dispose of in accordance with all federal, state and local regulations.

Section 14 Transport Information

IATA Not regulated
 DOT Not regulated

Section 15 Regulatory Information

REACH TITLE VII RESTRICTIONS	No information available
HCS Classification	
Dangerous substances	N/A
Organic Solvents	N/A
Harmful Substances Whose Names Are to be on the Label	N/A
Pollution Release and Transfer Registry (Class II)	N/A
Pollution Release and Transfer Registry (Class I)	N/A
Poison and Deleterious Substances Control Law	N/A
ISHA – Harmful Substances Prohibited for Manufacturing, Importing, Transferring, or Supplying	N/A
ISHA – Harmful Substances Requiring Permission	N/A
Toxic Chemical Classification Listing (TCCL) – Toxic Chemicals	N/A
Toxic Release Inventory (TRI) – Group I	N/A
Toxic Release Inventory (TRI) – Group II	N/A
INTERNATIONAL INVENTORIES	
TSCA	all components listed or exempted
EINECS/ELINCS	all components listed or exempted
ENCS	all components listed or exempted
IECSC	all components listed or exempted
KECL	all components listed or exempted
PICCS	all components listed or exempted
AICS	all components listed or exempted
US FEDERAL REGULATIONS	

SARA 313	Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.	
SARA 311/312 Hazard Categories	Acute Health Hazard	Yes
	Chronic Health Hazard	No
	Fire Hazard	No
	Sudden Release of Pressure Hazard	No
	Reactive Hazard	No
Clean Water Act	This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)	
Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)	This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)	
STATE REGULATIONS		
California Prop. 65	This product does not contain any Proposition 65 chemicals.	
INTERNATIONAL REGULATIONS		
Mexico – Grade	No information available	
WHMIS hazard class	E - Corrosive material	

Section 16 Other information

Date of last revision: May 9, 2014.

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

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.