

# MATERIAL SAFETY DATA SHEET

**Buffer 3**

## 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Buffer 3  
Description: Laboratory Reagent  
Product Number: 20251  
MSDS Issued: June 13, 2013

Manufacturer: BioNano Genomics  
Address: 9640 Towne Centre Drive  
San Diego, CA 92121  
Telephone: (858) 888-7600

## 2 COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	Percent Composition	Exposure Limit or Threshold Level
Tris (hydroxymethyl) aminomethane	77-86-1	(Proprietary)	N/A
Sodium Chloride	7647-14-5	(Proprietary)	N/A

## 3 HAZARDS IDENTIFICATION

This product does not contain more than 1% of a component classified as hazardous and not more than 0.1% of a component classified as carcinogenic.

## 4 FIRST AID MEASURES

Eye Contact: Immediately flush with large quantities of water for at least fifteen minutes. Causes eye irritation.  
Skin Contact: Wash off with soap and plenty of water. May be harmful if absorbed through skin. Causes skin irritation.  
Ingestion: Wash out mouth with water if person is conscious. Do not give anything by mouth if victim is unconscious. May be harmful if swallowed.  
Inhalation: Move victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. May be harmful if inhaled. Causes respiratory tract irritation. Consult a physician.

## 5 FIRE FIGHTING MEASURES

Extinguishing Media: Use water spray, alcohol resistant foam, dry chemical or carbon dioxide.  
Special Firefighting Procedures: Wear self-contained breathing apparatus and protective clothing.  
Avoid direct contact with runoff from fire fighting.  
Unusual Fire & Explosion Hazards:

## 6 ACCIDENTAL RELEASE MEASURES

Personal precaution: Avoid dust formation. Avoid breathing dust, vapors or gas. Ensure adequate ventilation. Evacuate person to safe areas.  
Environmental precautions: Do not let product enter drains.  
Methods for cleaning up: Sweep up and shovel. Pick up and ensure disposal with minimal dust formation. Keep in suitable closed containers for disposal.

## 7 HANDLING AND STORAGE

Handling: Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.  
Storage: Keep container tightly closed in a dry well ventilated place.

## 8 EXPOSURE CONTROLS, PERSONAL PROTECTION

Eye Protection: Safety glasses or goggles.  
Hand Protection: Latex, nitrile or vinyl gloves.  
Respiratory Protection: None, if used according to directions. If concerned use respiratory mask.  
Ventilation: Use in a well-ventilated laboratory.  
Other Protective Equipment: Lab coat or apron.

Hygiene measures: Avoid contact with Skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Safety shower and eye wash facilities should be made available in laboratory.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Liquid  
Odor: Odorless  
Solubility: Soluble in water

## 10 STABILITY AND REACTIVITY

Incompatibility: None.  
(materials to avoid)

Stability: Stable.  
Hazardous Polymerization: None.  
Conditions to Avoid: None

## 11 TOXICOLOGICAL INFORMATION

No components greater than 0.1% of this product are listed in IARC and NTP.  
Tween-20: LD50-Oral-Rat-40,554mg/kg. Skin-Human-Mild skin irritation 3d.

No components greater than 0.1% of this product are listed in IARC and NTP.

To the best of our knowledge, the chemical, physical, and toxicological properties of this product have not been thoroughly investigated.

## 12 ECOLOGICAL INFORMATION

Data not yet available

## 13 DISPOSAL CONSIDERATIONS

None

## 14 TRANSPORTATION INFORMATION

To the best of our knowledge, this product is not regulated as a hazardous material.

European Information:

Caution: Substance not yet fully tested.

## 15 OTHER INFORMATION

Limitations: The information and recommendations set forth in this MSDS are believed to be correct as of this date. BioNano Genomics makes no warranty with respect to the content of this MSDS and disclaims all liability from reliance thereon.