

Material Safety Data Sheet  
Version No.: 2.0 (Rev. date : 2020-03-23)

# FB Buffer

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## 1. Product and company identification

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Product Name : FB Buffer

Recommended Use : For Research Use Only

Supply Information

○ Company : Bioneer

○ Address : 8-11 Munpyeongseo-ro, Daedeok-gu, Daejeon 34302, Republic of Korea

○ Emergency telephone number : 82-42-930-8777

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## 2. Hazards identification

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GHS-Classification

Classification of the hazardous chemical

Flammable liquids : Category 2

Acute toxicity (Oral) : Category 4

Skin corrosive/skin irritant : Category 2

Serious eye damage/eye irritant : Category 2A

Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statements

H225 Highly flammable liquid and vapor H315 Causes skin irritation.

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H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness

Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P233 Keep container tightly closed.

P280 Wear protective gloves/protective clothing/eye protection/face protection

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### 3. Composition/information on ingredients

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Chemical name	Synonyms	CAS No.	Weight (%)
Guanidine thiocyanate		593-84-0	30 – 50%
Sodium acetate		127-09-3	> 1%

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### 4. First aid measures

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- . Eye contact : Rinse thoroughly with plenty of water for at least 15 minutes.
  - . Skin Contact: Rinse thoroughly with plenty of water for at least 15 minutes.
  - . Inhalation : Move to fresh air. If breathing is difficult, give oxygen
  - . Ingestion: Never give anything by mouth to an unconscious person.
  - . Notes to Physician : Not information available
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### 5. Fire-fighting measures

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- . Suitable Extinguishing Media: Water-spray, Dry chemical, CO2
  - . Flammable Properties: No information available
  - . Protective Equipment and Precautions for Firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand and full protective gear.
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### 6. Accidental release measures

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- . Personal Precautions: remove all ignition source. Prevent further spillage if safe to do so
  - . Environmental precautions : Absorb the sand or vermiculite. Prevent from waterway, drain, basement, close space.
  - . Methods for cleaning up: Wash contaminated area with plenty of water if small leakage.
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Absorb with sand and inflammable material in small spill site. and Pick up and transfer to properly labeled containers.

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## 7. Handling and storage

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A. Handling precautions : Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Wash hands thoroughly after handling.

B. Storage precautions : Keep sealed and store. Keep container tightly closed in a dry and well ventilated place.

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## 8. Exposure controls / personal protection

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A. Chemical Exposure Standards, Biological Exposure Standards Etc. : No data available

B. Proper physical management : No data available.

C. Personal protection

Respiratory protection : Use respiratory protection appropriate for the particular material and its physical and chemical properties.

Eyes protection : Use goggles appropriate for the particular material and its physical and chemical properties.

Hands protection : Handle with gloves. Gloves must be inspected prior to use.

Body protection : impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

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## 9. Physical and chemical properties

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A. Appearance : Liquids, Orange color

B. Odor : No information

C. Odor threshold : No information

D. pH : 5.0

E. Freezing/Melting point : No information

F. Boiling point and Range : No information

G. Flash point : No information

H. Evaporation speed : No information

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- I. Flammability (Solid, Gas) : No information
  - J. Ignition or explosion range : No information
  - K. Vapor pressure : No information
  - L. Solubility : No information
  - M. Vapor density : No information
  - N. Specific weight : No information
  - O. n-Octanol/Water solubility coefficient : No information
  - P. Self-Flammability : No information
  - Q. Decomposition temperature : No information
  - R. Viscosity : No information
  - S. Molecular weight : No information
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## 10. Stability and Reactivity

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- A. Chemical stability and toxic reaction potential : Stable under recommended storage conditions.
  - B. Conditions to avoid : No information
  - C. Possibility of hazardous reactions : Keep away from heat/sparks/open flames/hot surfaces.
  - D. Conditions to avoid : No information
  - E. Hazardous decomposition products : No information
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## 11. Toxicological information

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- A. Probable exposure paths
    - Respiratory : May cause irritation upon inhalation.
    - Oral : May cause irritation upon ingestion.
    - Eyes/skin : May cause irritation upon contact. Can cause skin irritation.
  - B. Health hazard information
    - Acute toxicity : No information
    - Skin corrosion/irritation : Can cause skin irritation.
    - Serious eye damage/eye irritation : May cause irritation.
    - Respiratory or skin sensitization : No information
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- Carcinogenicity : No information
  - Germ cell mutagenicity: No information
  - Reproductive toxicity : No information
  - Specific target organ toxicity (single exposure) : No information
  - Specific target organ toxicity (repeated exposure) : No information
  - Aspiration hazard: No information
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## 12. Ecological information

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- A. Biological toxicity : No information
  - B. Persistency and Degradability : No information
  - C. Bioconcentration : No information
  - D. Soil mobility : No information
  - E. Other toxic effects : No information
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## 13. Disposal considerations

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- A. Disposal method : Offer surplus and non-recyclable solutions to a licensed disposal company.
  - B. Disposal considerations : Observe all local and national environmental regulations if applicable.
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## 14. Transport information

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- A. UN No : ADR/RID : 1759    IMDG : 1759    IATA : 1759
  - B. UN proper shipping name :  
ADR/RID: CORROSIVE SOLID, N.O.S. (Guanidinium thiocyanate)  
IMDG: CORROSIVE SOLID, N.O.S. (Guanidinium thiocyanate)  
IATA: Corrosive solid, n.o.s. (Guanidinium thiocyanate)
  - C. Transport hazard class : ADR/RID : 8    IMDG : 8    IATA : 8
  - D. Packaging group : ADR/RID : III    IMDG : III    IATA : III
  - E. Environmental hazards : No classification information
  - F. Special Safety Measures for Users Regarding Shipping or Shipping Measures : No classification information
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## 15. Regulatory information

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- A. Industrial safety and health regulation : No information
  - B. Hazardous chemical management regulation : No information
  - C. Dangerous material management regulation : No information
  - D. Waste management regulation : No information
  - E. Other domestic and international regulations : No information
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## 16. Other information

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Bioneer Corporation makes no warranty or representation to its completeness, accuracy or currency. This material is intended for use by persons with pertinent technical skills and at their discretion and risk. It is the responsibility of the user to determine the product's suitability for its intended use, the product's safe use, and the product's proper disposal. Disposal of hazardous material may be subject to federal, state or local laws or regulations.

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