

Material Safety Data Sheet



BIOSCIENCES

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1. Identification of substance

- **Product details**
- **Trade name:** BufferR-I
- **MSDS No.:** BR-I

2. Composition/Data on components

Chemical characterization

- **Description:** Mixture of the substances listed below with non-hazardous additions.
- **Dangerous components:**

593-84-0 GUANIDINE THIOCYANATE 40%-50%

3. Hazards identification

- **Hazard description:** Irritant.
- **Information pertaining to particular dangers for man and environment:**

Irritating to eyes and skin.

- **Classification system:** The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

- **NFPA ratings (scale 0-4):**

Health = 0

Fire = 2

Reactivity = 0

- **WHMIS-ratings (scale 0-4):**

Health = 0

Fire = 2

Reactivity = 0

4. First aid measures

- **Inhalation:** Provide fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Contact a physician if symptoms appear/persist.
- **Ingestion:** Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Immediately seek medical advice/assistance.
- **Skin Contact:** Immediately wash with water and soap and rinse thoroughly.

Continue to flush skin with water for at least 15 minutes.

Remove contaminated clothing and shoes.

Seek medical assistance if necessary.

Eye Contact: Immediately flush affected eye opened with running water for at least 15 minutes.

Get medical attention immediately.

5. Fire fighting measures

- **Suitable extinguishing agents:** CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Protective equipment:** Do not inhale explosion gases or combustion gases.

6. Accidental release measures

- **Person-related safety precautions:** Ensure adequate ventilation
- **Measures for environmental protection:** Do not allow product to reach sewage system or any water course.
- **Measures for cleaning/collecting:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

7. Handling and storage

Handling

- **Information for safe handling:** Keep receptacles tightly sealed.
- **Information about protection against explosions and fires:** Non-applicable.

Storage

- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.

8. Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

Personal protective equipment

- **General protective and hygienic measures:** Wash hands frequently.
- **Breathing equipment:** Not required.
- **Protection of hands:** Protective gloves
- **Eye protection:** Tightly sealed goggles

9. Physical and chemical properties

- **Appearance:** White crystals.
- **Solubility:** Soluble in water.
- **Specific Gravity:** No information found.
- **pH:** No information found.
- **Boiling Point:** No information found.
- **Melting Point:** 115-118C (239-244F)
- **Vapor Density (Air=1):** No information found.
- **Vapor Pressure (mm Hg):** No information found.
- **Evaporation Rate (BuAc=1):** No information found.

10. Stability and reactivity

Thermal decomposition/conditions to be avoided: No decomposition if used in accordance with specifications.

- **Dangerous reactions:** Reacts with acids, alkalis and oxidizing agents.
- **Dangerous products of decomposition:** Danger of toxic pyrolysis products.

11. Toxicological information

Acute toxicity

Primary irritant effect

- **On the skin:** Irritant to skin and mucous membranes.
- **In the eyes:** Irritating effect.
- **Sensitization:** No sensitizing effects known.

12. Ecological information

General notes:

- **Water Hazard Class 2 (Self-assessment):** Hazardous for water. Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

13. Disposal considerations

- **Product recommendation:** Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14. Transport information

DOT regulations

- **Hazard class:** --

Land transport ADR/RID (cross-border)

- **ADR/RID class:** --

Maritime transport IMDG

- **IMDG Class:** --
- **Marine pollutant:** No

Air transport ICAO-TI and IATA-DGR

- **ICAO/IATA Class:** -

15.Regulations

- **TSCA (Toxic Substances Control Act):** All ingredients are listed R

Proposition 65

- **Chemicals known to cause cancer:** None of the ingredients is listed.
- **Chemicals known to cause reproductive toxicity:** None of the ingredients is listed.
- **Product related hazard information:** The product has been classified and marked in accordance with directives on hazardous materials.
- **Risk phrases:** Irritant.

National regulations

- **Technical instructions (air):**

Class Share in %

III 2.5-10

Water hazard class

- **Water Hazard Class 2 (Self-assessment):** Hazardous for water.

16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.