

Conforms to 93/112/EC and ISO 11014-1

Responsible Name Pierce Administration

? **Section 1. Chemical Product and Company Identification**

Product name Melon Gel Purification Buffer (100X), Solid

Product No. 1859378

| | | | | |
|-----------------|--------------------|------------------------|---------------------|----------------------|
| Supplier | <i>In USA:</i> | <i>In Europe:</i> | Manufacturer | Pierce Biotechnology |
| | Pierce | Perbio Science | | P.O. Box 117 |
| | P.O. Box 117 | Industriezone III | | Rockford, IL 61105 |
| | Rockford, IL 61105 | Industrielaan 27 | | USA |
| | USA | 9320 Erembodegem-Aalst | | 815.968.0747 or |
| | 815.968.0747 or | Belgium | | 1.800.874.3723 |
| | 1.800.874.3723 | Tel:+32 53 83 44 04 | | |
| | | Fax:+32 53 83 76 38 | | |

In Case of Emergency CALL CHEMTREC:

800.424.9300
OUTSIDE US:
202.483.7616

Print Date 5/10/2004

Validation Date 5/10/2004

MSDS# 7138

Intended Use Refer to the instruction booklet for proper and intended use. Otherwise, contact supplier for specific applications.

 **Section 2. Composition, Information on Ingredients**

Substance/Preparation : Substance

| <u>Ingredient Name</u> | <u>CAS No.</u> | <u>%</u> | <u>EC Number</u> | <u>Symbol</u> | <u>R-Phrases</u> |
|--|----------------|----------|------------------|---------------|------------------|
| 1) Melon Gel Purification Buffer (100X), Solid | 10049-21-5 | 98-100 | Not available. | Xi | R36/37/38 |

 **Section 3. Hazards Identification**

United States Review the most current and approved institutional guideline, protocol, standard operating procedure(s) and MSDS(s) for the proper handling of institutional materials/equipment associated with the use of this product.

Emergency Overview DANGER!
CAUSES SEVERE EYE IRRITATION.
CAUSES DAMAGE TO THE FOLLOWING ORGANS: MUCOUS MEMBRANES, RESPIRATORY TRACT, SKIN, EYES.
MAY CAUSE RESPIRATORY TRACT AND SKIN IRRITATION.
Avoid contact with eyes, skin and clothing. Avoid breathing dust. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling.

Routes of Entry Absorbed through skin. Dermal contact. Eye contact. Inhalation. Ingestion.

Potential Acute Health Effects Extremely hazardous in case of eye contact (irritant). Very hazardous in case of ingestion. Hazardous in case of inhalation (lung irritant). Non-irritant for skin. Inflammation of the eye is characterized by redness, watering, and itching.

Carcinogenic Effects Data **CARCINOGENIC EFFECTS:** Not available.
MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.

Medical Conditions Aggravated by Overexposure: Repeated or prolonged exposure is not known to aggravate medical condition.

Overexposure /Signs/Symptoms Not available.

Europe

Classification R36/37/38
Physical/chemical hazards Not applicable.
Human health hazards Irritating to eyes, respiratory system and skin.
Environmental hazards Not applicable.

See Toxicological Information (section 11)

Continued on Next Page

+ Section 4. First Aid Measures

Notice to Reader Get immediate medical attention.

Effects and symptoms

Inhalation Hazardous in case of inhalation (lung irritant).

Ingestion Very hazardous in case of ingestion.

Skin Contact Non-irritant for skin.

Eye Contact Extremely hazardous in case of eye contact (irritant). Inflammation of the eye is characterized by redness, watering, and itching.

Aggravating conditions Repeated or prolonged exposure is not known to aggravate medical condition.

First-Aid Measures

Inhalation If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Skin Contact In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

Eye Contact Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.

Notes to Physician Not available.

Protection of first-aiders Not available.

🔥 Section 5. Fire Fighting Measures

Flammability of the Product Non-flammable.

Flash Points Not applicable.

Fire Hazards in Presence of Various Substances Not applicable.

Fire Fighting Media and Instructions Not applicable.

Protective Clothing (Fire) Not applicable.

Special Remarks on Fire Hazards Keep container tightly closed.

Hazardous thermal (de)composition products Not applicable.

Section 6. Accidental Release Measures

Personal precautions Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Environmental Precautions and Clean-up Methods Use a shovel to put the material into a convenient waste disposal container. **Neutralize the residue with a dilute solution of sodium carbonate.** Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Small Spill and Leak Use appropriate tools to put the spilled solid in a convenient waste disposal container. If necessary: **Neutralize the residue with a dilute solution of sodium carbonate.** Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

◇ Section 7. Handling and Storage

Handling Avoid contact with eyes, skin, and clothing. Avoid breathing dust. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling.

Storage Keep container tightly closed. Keep container in a cool, well-ventilated area.

Intended Use Refer to the instruction booklet for proper and intended use. Otherwise, contact supplier for specific applications.

Packaging materials

Continued on Next Page

Suitable / Not suitable Use original container.

Section 8. Exposure Controls/Personal Protection

Engineering Controls Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Exposure Limit Values

| <u>Ingredient Name</u> | <u>Occupational Exposure Limits</u> |
|------------------------|-------------------------------------|
|------------------------|-------------------------------------|

United States

| | |
|--|----------------|
| 1) Melon Gel Purification Buffer (100X), Solid | Not available. |
|--|----------------|

Sweden

| | |
|---|----------------|
| 1) Melon Gel Purification Buffer (10X), Solid | Not available. |
|---|----------------|

Denmark

| | |
|--|----------------|
| 1) Melon Gel Purification Buffer (100X), Solid | Not available. |
|--|----------------|

Norway

| | |
|--|----------------|
| 1) Melon Gel Purification Buffer (100X), Solid | Not available. |
|--|----------------|

France

| | |
|--|----------------|
| 1) Melon Gel Purification Buffer (100X), Solid | Not available. |
|--|----------------|

Netherlands

| | |
|--|----------------|
| 1) Melon Gel Purification Buffer (100X), Solid | Not available. |
|--|----------------|

Germany

| | |
|--|----------------|
| 1) Melon Gel Purification Buffer (100X), Solid | Not available. |
|--|----------------|

Personal Protection

Eyes Splash goggles.

Body Lab coat.

Hands Gloves.

Respiratory Respirator is not needed under normal and intended conditions of use, if exposures are kept below established limits.

Protective Clothing
(Pictograms)



Section 9. Physical and Chemical Properties

Physical State and Appearance Solid.

Odor Not available.

Molecular Weight

Taste Not available.

pH (1% Soln/Water) 4 [Acidic.]

Color Not available.

Melting/Freezing Point 180°C (356°F)

Dispersion Properties See solubility in water.

Solubility Easily soluble in cold water, hot water.



Section 10. Stability and Reactivity

- Stability and Reactivity* The product is stable.
- Conditions to avoid* Not available.
- Materials to avoid* Reactive with acids.
- Hazardous Polymerization* Will not occur.
- Hazardous Decomposition Products* Not applicable.



Section 11. Toxicological Information

- Toxicity to Animals* **Melon Gel Purification Buffer (100X), Solid:**
ORAL (LD50): Acute: 8290 mg/kg [Rat].
- Chronic Effects on Humans* Causes damage to the following organs: mucous membranes, upper respiratory tract, skin, eyes.
- Other Toxic Effects on Humans* Extremely hazardous in case of eye contact (irritant).
Very hazardous in case of eye contact (irritant).
Hazardous in case of inhalation (lung irritant).
- Special Remarks on Toxicity to Animals* Not available.
- Special Remarks on Chronic Effects on Humans* Not available.
- Special Remarks on Other Toxic Effects on Humans* Not available.



Section 12. Ecological Information

- Mobility* Not available.
- Persistence/degradability* Not available.
- Bioaccumulative potential* Not available.
- Ecotoxicity* Not available.
- Germany water class* VCI WGK: No products were found.



Section 13. Disposal Considerations

- Waste Information* Waste must be disposed of in accordance with federal, state and local environmental control regulations.
- Waste Stream* Not available.

Consult your local or regional authorities.



Section 14. Transport Information

Contact the supplier for all information regarding the proper transportation method for this material.

Section 15. Regulatory Information

Label Requirements (Europe)

R36/37/38- Irritating to eyes, respiratory system and skin.

S36/37/39- Wear suitable protective clothing, gloves and eye/face protection.



Irritant

HCS Classification

Irritating substance.

U.S. Federal Regulations TSCA: No products were found.

SARA 302/304/311/312 extremely hazardous substances: No products were found.
 SARA 302/304 emergency planning and notification: No products were found.
 SARA 302/304/311/312 hazardous chemicals: No products were found.
 SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found.
 SARA 313 toxic chemical notification and release reporting: No products were found.
 Clean Water Act (CWA) 307: No products were found.
 Clean Water Act (CWA) 311: No products were found.
 Clean air act (CAA) 112 accidental release prevention: No products were found.
 Clean air act (CAA) 112 regulated flammable substances: No products were found.
 Clean air act (CAA) 112 regulated toxic substances: No products were found.

WHMIS (Canada) CLASS D-2B: Material causing other toxic effects (TOXIC).

No products were found.

International Regulations

EINECS Not available.

DSCL (EEC) R36/37/38- Irritating to eyes, respiratory system and skin.

International Lists Australia (NICNAS): Melon Gel Purification Buffer (10X), Solid

VCI WGK: No products were found.

State Regulations No products were found.

California prop. 65: No products were found.

Section 16. Other Information

Hazardous Material Information System (U.S.A.)

| | | |
|---------------------|---|---|
| Health | * | 1 |
| Fire Hazard | | 0 |
| Reactivity | | 0 |
| Personal Protection | | E |

National Fire Protection Association (U.S.A.)



References -Hawley, G.G.. The Condensed Chemical Dictionary, 11e ed., New York N.Y., Van Nostrand Reinold, 1987.

History of Document Changes Any information changes since last document version are marked with a triangle symbol. 

Continued on Next Page

Melon Gel Purification Buffer (100X), Solid

Page: 6/6

Full text of R-Phrases Irritating to eyes, respiratory system and skin.
referenced under headings 2 and 3:

Intended Use Refer to the instruction booklet for proper and intended use. Otherwise, contact supplier for specific applications.

Validated by Pierce Administration on 5/10/2004.

Verified by Pierce Administration.

Date of Previous Issue No Previous
Validation

Printed 5/10/2004.

Version

1.01

Notice to Reader

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.