

# Material Safety Data Sheet

## E.Z.N.A.<sup>®</sup> SQ Plant DNA Kit



Omega Bio-Tek, Inc.

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# Material Safety Data Sheet

Trade Name: Elution Buffer

Date of Issue: 8/20/2004

## 1. Product and manufacturer information

Product Information:

Trade Name: Elution Buffer

Manufacturer: Omega Bio-Tek, Inc., 1850-E Beaver Ridge Circle, Norcross, GA  
30071 Tel: (770) 931.8400. Fax: (770) 931.0230.

Toll Free Tel: 1(800) 832.8896

## 2. Composition:

Chemical Characteristics: Aqueous solution of Tris (hydroxymethyl) amino methane/Hydrochloric acid.

Hazardous Components: According to OSHR 29 CFR & 1910.1200, any mixture that contains less than 1% by weight or volume of a non-carcinogenic hazardous component is not considered hazardous, unless there is evidence to the contrary. We do not consider Solution I to be hazardous. However gloves, lab coats and protective eyewear are recommended when using any chemical reagents.

## 3. Hazardous Identification:

Not Applicable

## 4. First Aid:

Remove contaminated clothing and call physician.

In case of eye contact: Immediately flush eyes with large amounts of water for at least 20 minutes adequate flushing is achieved by separating eyelids, clean fingers.

In case of skin contact: Immediately wash skin with soap and copious amounts of water.

If inhaled: Remove to an area with fresh air. Give artificial respiration if not Breathing and call medical emergency services. Oxygen may be required if respiration is difficult.

If swallowed: Wash out mouth with water only if conscious.

## 5. Fire-Fighting Measures

Extinguishing media: Use appropriate, non-combustible extinguishing media.

Special Procedure: Wear self-contained breathing apparatus and protective clothing to prevent contact with eyes and skin.

# Material Safety Data Sheet

Trade Name: Elution Buffer

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## 6. Accidental Measures:

Precautionary Measures: Wear self-contained breathing apparatus, protective eyewear/goggles, rubber boots and thick rubber gloves.

Clean-up Procedure: Absorb on vermiculite or sand. Place in closed containers for disposal. Finally ventilate area and wash spills when pick-up is complete.

## 7. Handling and Storage:

Storage: Store tightly closed at 22-25°C.

## 8. Exposure Controls:

Rubber gloves, protective eyewear, NIOSH/MSH A-approved respirator, Safety shower and eye wash bottle. Wash hands thoroughly after handling. Do not get into eyes, on skin or on clothing.

## 9. Physical and Chemical Properties:

Physical State:	liquid	
Color:	colorless	
Odor:	odorless	
pH:	(25°C)	7.5
Viscosity:	(25°C)	N/A
Melting Point:		N/A
Boiling Point:		N/A
Ignition Temp:		N/A
Flashpoint:		N/A
Explosion Level:	Lower:	N/A
	Upper:	N/A
Vapor Pressure:	(25°C)	N/A
Specific Gravity:	(25°C)	1.07 g/cm <sup>3</sup>
Water Solubility:	(25°C)	Soluble

## 10. Stability and Reactivity:

Substances to avoid: N/A

Hazardous combustion or  
Decomposition products: Nature of decomposition products not known.

# Material Safety Data Sheet

Trade Name: Elution Buffer

Date of Issue: 8/20/2004

## 11. Toxicological Data:

Toxicity Data	N/A
Acute Effects of:	
Inhalation:	May be harmful by inhalation.
Eye Contact:	May cause irritation.
Skin Contact:	May cause irritation.
Ingestion:	May be harmful if swallowed.
Prolonged exposure:	N/A
Chronic Effects:	N/A
RTECS Numbers:	N/A

## 12. Ecological Data:

This product presents no specific danger to the environment.

## 13. Disposal:

For small quantities flush down sink with water. Make sure to observe all Federal, State and Local laws and requirements.

## 14. Transport Data:

N/A

## 15. Regulatory Data:

N/A

## 16. Other Data:

The above information is believed to be correct but does not purport to be all-inclusive and should be used only as a guide. Omega Bio-Tek shall not be held liable for consequences resulting from handling or from contact with the above product.

# Material Safety Data Sheet

Trade Name: RNase A  
Date of Issue: 4/12/2005

## 1. Product and manufacturer information

Product Information:

Trade Name: RNase A  
Manufacturer: Omega Bio-Tek, Inc.  
1850-E Beaver Ridge Circle, Norcross, GA 30071  
Tel: (770) 931.8400. Fax: (770) 931.0230.

## 2. Composition:

Chemical Characteristics: Aqueous solution of RNase A  
9001-99-4 RNase A (Enzyme Protein)

## 3. Hazardous Identification:

May be harmful if swallowed. May be irritating to eyes and skin.

Labeling: Xn, corrosive, harmful R36/37/38-42/43

## 4. First Aid: remove contaminated clothing and call physician.

In case of eye contact: Immediately flush eyes with large amounts of water for at least 20 minutes. Adequate flushing is achieved by separating eyelids with clean fingers.  
In case of skin contact: Immediately wash skin with soap and copious amounts of water then consult a doctor.  
If inhaled: Remove to an area with fresh air. Consult doctor if necessary.  
If swallowed: Call doctor immediately.

## 5. Fire-Fighting Measures

Extinguishing media: Use appropriate non-combustible extinguishing media.  
Special Procedure: Wear self-contained breathing apparatus and protective clothing to prevent contact with eyes and skin.

## 6. Accidental Release Measures:

Precautionary Measures: Wear self-contained breathing apparatus, protective eyewear/goggles, rubber boots and thick rubber gloves.  
Clean-up Procedure: Absorb on vermiculite or sand. Place in closed containers for disposal. Finally ventilate area and wash spills when pick-up is complete.

# Material Safety Data Sheet

Trade Name: RNase A  
Date of Issue: 4/12/2005

## 7. Handling and Storage:

Storage: Store tightly closed at 22-25°C.

## 8. Exposure Controls:

Rubber gloves, protective eyewear, NIOSH/MSH A-approved respirator, Safety shower and eye wash bottle. Wash hands thoroughly after handling. Do not get into eyes, on skin or on clothing.

## 9. Physical and Chemical Properties:

Physical State:	liquid	
Color:	colorless	
Odor:	odorless	
pH:	(25°C)	N/A
Viscosity:	(25°C)	N/A
Melting Point:		N/A
Boiling Point:		N/A
Ignition Temp:		N/A
Flashpoint:		N/a
Explosion Level:	Lower:	N/A
	Upper:	N/A
Vapor Pressure:	(25°C)	N/A
Specific Gravity:	(25°C)	1.12 g/cm <sup>3</sup>
Water Solubility:	(25°C)	Soluble

## 10. Stability and Reactivity:

Substances to avoid:	Strong oxidizing agents.
Hazardous combustion or Decomposition products:	Carbon monoxide, carbon dioxide, nitrogen oxide and hydrogen chloride gas.

## 11. Toxicological Data:

Toxicity Data	N/A
Acute Effects of:	
Inhalation:	May be harmful by inhalation.
Eye Contact:	Destructive to eye.

# Material Safety Data Sheet

Trade Name: RNase A

Date of Issue: 4/12/2005

Skin Contact:	Destructive to skin, harmful by skin absorption.
Ingestion:	Harmful if swallowed.
Prolonged exposure:	N/A
Chronic Effects:	N/A
RTECS Numbers:	N/A
Additional Information:	Handle with normal caution accorded to chemicals. Other harmful Properties cannot be rules out.

## 12. Ecological Data:

This product presents no specific danger to the environment.

## 13. Disposal:

For small quantities flush down sink with water. Make sure to observe all federal, state and local laws and requirements.

## 14. Transport Data:

N/A

## 15. Regulatory Data:

Labeling: Xn, corrosive, harmful R36/37/38-42/43

## 16. Other Data:

The above information is believed to be correct but does not purport to be all-inclusive and should be used only as a guide. Omega Bio-Tek shall not be held liable for consequences resulting from handling or from contact with the above product.

# Material Safety Data Sheet

Trade Name: SQ 1 Buffer

Date of Issue: 7/18/2008

## 1. Product and manufacturer information

Product Information:

Trade Name: SQ 1 Buffer  
Manufacturer: Omega Bio-Tek, Inc.  
1850-E Beaver Ridge Circle, Norcross, GA 30071  
Tel: (770) 931.8400. Fax: (770) 931.0230.

## 2. Composition:

Chemical Characteristics: Aqueous mix of substances listed below and nonhazardous additions.  
Hazardous Components: 151-21-3 Sodium Dodecyl Sulphate (<5-10%),  
1310-73-2 Sodium Hydroxide (<2.5%)

## 3. Hazardous Identification:

Hazardous description: Highly toxic, Corrosive

Classification System was made according to the latest editions of International substances lists and is expanded by company and technical literature data.

NFPA Ratings: (Scale: 0-4) Health = 3; Fire = 0; Reactivity = 0

WHMIS Ratings: (Scale: 0-4) Health = 3; Fire = 0; Reactivity = 0

## 4. First Aid: Remove contaminated clothing and call physician.

In case of eye contact: Immediately flush eyes with large amounts of water for at least 20 minutes adequate flushing is achieved by separating eyelids, clean fingers.

In case of skin contact: Immediately wash skin with soap and copious amounts of water.

If inhaled: Remove to an area with fresh air. Give artificial respiration if not Breathing and call medical emergency services. Oxygen may be required if respiration is difficult.

If swallowed: Drink copious amounts of water and provide fresh air. Call Physician Immediately.

## 5. Fire-Fighting Measures

Extinguishing media: CO<sub>2</sub> extinguishing power, or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special Procedure: Wear self-contained breathing apparatus and protective clothing to prevent contact with eyes and skin.

# Material Safety Data Sheet

Trade Name: SQ 1 Buffer

Date of Issue: 7/18/2008

## 6. Accidental Release Measures:

Precautionary Measures: Wear self-contained breathing apparatus, protective eyewear/goggles, rubber boots and thick rubber gloves.

Clean-up Procedure: Absorb on vermiculite or sand. Place in closed containers for disposal. Finally ventilate area and wash spills when pick-up is complete.

## 7. Handling and Storage:

Handling: Ensure good ventilation/exhaustion at the workplace.

Storage: Store tightly closed at 22-25°C.

## 8. Exposure Controls:

Rubber gloves, protective eyewear, NIOSH/MSH A-approved respirator, Safety shower and eye wash bottle. Wash hands thoroughly after handling. Do not get into eyes, on skin or on clothing.

## 9. Physical and Chemical Properties:

Physical State:	liquid	
Color:	colorless	
Odor:	characteristic	
pH:	(25°C)	13.2
Viscosity:	(25°C)	N/A
Melting Point:		N/A
Boiling Point:		100°C
Ignition Temp:		N/A
Flashpoint:		N/A
Explosion Level:	Lower:	N/A
	Upper:	N/A
Vapor Pressure:	(25°C)	23 hPa
Specific Gravity:	(25°C)	0.992 g/cm <sup>3</sup>
Water Solubility:	(25°C)	Soluble

## 10. Stability and Reactivity:

Substances to avoid: N/A

Dangerous Reaction: N/A

Hazardous combustion or decomposition: No dangerous decomposition products known.

# Material Safety Data Sheet

Trade Name: SQ 1 Buffer

Date of Issue: 7/18/2008

Decomposition products:

## 11. Toxicological Data:

Toxicity Data	N/A
Acute Effects of:	Irritant
Inhalation:	Harmful by inhalation.
Eye Contact:	Strong Caustic Effect.
Skin Contact:	Caustic Effect on Skin.
Ingestion:	Harmful if swallowed.
Prolonged exposure:	N/A
Chronic Effects:	N/A
RTECS Numbers:	N/A

Additional Information: This product shows the following dangers according to internally approved calculation methods for preparations: Corrosive, Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

## 12. Ecological Data:

Water hazardous 2 (Self-assessment): Hazardous for water. Do not allow product to reach ground water course or sewage system. It must not reach bodies of water or drainage ditches undiluted or unneutralized. Danger to drinking water if even small quantities leak into the ground.

## 13. Disposal:

Must not be disposed of together with household garbage. Make sure to observe all Federal, State and Local laws and requirements.

## 14. Transport Data:

N/A

## 15. Regulatory Data:

N/A

## 16. Other Data:

The above information is believed to be correct but does not purport to be all-inclusive and should be used only as a guide. Omega Bio-Tek shall not be held liable for consequences resulting from handling or from contact with the above product.

# Material Safety Data Sheet

Trade Name: SQ 2 Buffer

Date of Issue: 4/12/1999

## 1. Product and manufacturer information

Product Information:

Trade Name: SQ 2 Buffer

Manufacturer: Omega Bio-Tek, Inc.

1850-E Beaver Ridge Circle, Norcross, GA 30071

Tel: (770) 931.8400. Fax: (770) 931.0230.

## 2. Composition:

Chemical Characteristics: Aqueous solution of Potassium Acetate.

Hazardous Components: 127-08-2 potassium acetate.

## 3. Hazardous Identification:

Hazard Description: Harmful, R20/21/22-32. Harmful by inhalation, in contact with skin and if swallowed.

Classification System: The classification was made according to the latest editions of international substances list, and expanded upon from company and literature data.

NFPA Ratings: (Scale: 0-4) Health = 2; Fire = 0; Reactivity = 0

WHMIS Ratings: (Scale: 0-4) Health = 2; Fire = 0; Reactivity = 0

## 4. First Aid:

Remove contaminated clothing and call physician.

In case of eye contact: Immediately flush eyes with large amounts of water for at least 20 minutes. Adequate flushing is achieved by separating eyelids with clean fingers.

In case of skin contact: Immediately wash skin with soap and copious amounts of water then consult a doctor.

If inhaled: Remove to an area with fresh air. Give artificial respiration if not breathing and call emergency services. Oxygen may be required if respiration is difficult.

If swallowed: Wash out mouth with water only if conscious.

## 5. Fire-Fighting Measures

Extinguishing media: Carbon Dioxide, dry chemical powder or appropriate foam. Fight larger fires with water spray or resistant foam.

Special Procedure: Wear self-contained breathing apparatus and protective clothing to prevent contact with eyes and skin.

# Material Safety Data Sheet

Trade Name: SQ 2 Buffer

Date of Issue: 4/12/1999

## 6. Accidental Release Measures:

Precautionary Measures: Wear self-contained breathing apparatus, protective eyewear/goggles, rubber boots and thick rubber gloves.

Clean-up Procedure: Absorb on vermiculite or sand. Place in closed containers for disposal. Finally ventilate area and wash spills when pick-up is complete.

## 7. Handling and Storage:

Storage: Store tightly closed at 22-25°C.

## 8. Exposure Controls:

Rubber gloves, protective eyewear, NIOSH/MSH A-approved respirator, Safety shower and eye wash bottle. Wash hands thoroughly after handling. Do not get into eyes, on skin or on clothing.

## 9. Physical and Chemical Properties:

Physical State:	liquid	
Color:	colorless	
Odor:	odorless	
pH:	(25°C)	8.0
Viscosity:	(25°C)	N/A
Melting Point:		N/A
Boiling Point:		N/A
Ignition Temp:		N/A
Flashpoint:		>70°C
Explosion Level:	Lower:	N/A
	Upper:	N/A
Vapor Pressure:	(25°C)	N/A
Specific Gravity:	(25°C)	1.150 g/cm <sup>3</sup>
Water Solubility:	(25°C)	Soluble

## 10. Stability and Reactivity:

Substances to avoid: N/A/

Hazardous combustion or

Decomposition products: Nature of decomposition products not known.

# Material Safety Data Sheet

Trade Name: SQ 2 Buffer

Date of Issue: 4/12/1999

## 11. Toxicological Data:

Toxicity Data	ORL-RAT LD50: 3250 mg/kg AIHAPP 30, 470, 69
Acute Effects of:	N/A
Inhalation:	May be harmful by inhalation. Material is disruptive to mucous membranes and upper respiratory tract.
Eye Contact:	Causes severe irritation.
Skin Contact:	Causes skin irritation. Harmful by skin absorption.
Ingestion:	Harmful if swallowed.
Prolonged exposure:	Exposure to skin causes dermatitis
Chronic Effects:	N/A
RTECS Numbers:	AJ3325000
Additional Information:	Handle with normal caution accorded to chemicals. Other harmful Properties cannot be ruled out.

## 12. Ecological Data:

This product presents no specific danger to the environment.

## 13. Disposal:

Contact either the authorities in charge of approved waste disposal companies which will advise you on how to dispose of special waste. Contaminated packing should be handled in the same manner as the substance itself. Unless specified directly, non-contaminated packaging may be treated as household waste.

## 14. Transport Data:

N/A

## 15. Regulatory Data:

N/A

## 16. Other Data:

The above information is believed to be correct but does not purport to be all-inclusive and should be used only as a guide. Omega Bio-Tek shall not be held liable for consequences resulting from handling or from contact with the above product.