

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

Responsible Name Company2

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

**Product name** T-Gel Adsorbent

**Product No.** 0020500 0020500B 0020502

<b>Supplier</b>	<i>In USA:</i> Pierce P.O. Box 117 Rockford, IL 61105 USA 815.968.0747 or 1.800.874.3723	<i>In Europe:</i> Perbio Science Industriezone III Industrielaan 27 9320 Erembodegem-Aalst Belgium Tel:+32 53 83 44 04 Fax:+32 53 83 76 38	<b>Manufacturer</b>	Pierce Biotechnology P.O. Box 117 Rockford, IL 61105 USA 815.968.0747 or 1.800.874.3723
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**In Case of Emergency** CHEMTREC:  
800.424.9300  
OUTSIDE US:  
202.483.7616

**Print Date** 10/29/2004  
**Validation Date** **10/29/2004**  
**MSDS#** 1028

**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** : Preparation

No hazardous ingredient according to 29 CFR 1910.1200 Hazard Communication Standard (USA) and Directives 1999/45/EC-2001/59/EC (EU)

 **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** Warning!  
CONTAINS MATERIAL WHICH CAUSES DAMAGE TO THE FOLLOWING ORGANS:  
SKIN, EYES.  
Not applicable.

**Target organs** Contains material which causes damage to the following organs: skin, eyes.

**Routes of Entry** Dermal contact. Eye contact. Inhalation. Ingestion.

**Potential acute health effects**

**Eyes** No known significant effects or critical hazards.

**Skin** No known significant effects or critical hazards.

**Inhalation** No known significant effects or critical hazards.

**Ingestion** No known significant effects or critical hazards.

**Potential chronic health effects**

**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** Not classified.

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*Physical/chemical hazards* Not applicable.  
*Human health hazards* Not applicable.  
*Environmental hazards* Not applicable.

See Toxicological Information (section 11)

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## **+ Section 4. First Aid Measures**

### **Effects and symptoms**

*Inhalation* Slightly hazardous in case of inhalation (lung irritant).  
*Ingestion* Slightly hazardous in case of ingestion.  
*Skin Contact* Sensitization of the product: Not available.  
Slightly hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.  
*Eye Contact* Slightly hazardous in case of eye contact (irritant).  
*Aggravating conditions* Repeated or prolonged exposure is not known to aggravate medical condition.

### **First-Aid Measures**

*Inhalation* In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.  
*Ingestion* Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.  
*Skin Contact* In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.  
*Eye Contact* In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.  
*Notes to Physician* Not available.  
*Protection of first-aiders* Not available.

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## **Section 5. Fire Fighting Measures**

*Flammability of the Product* May be combustible at high temperature.  
*Flash Points* Not available.  
*Fire Hazards in Presence of Various Substances* Not available.  
*Fire Fighting Media and Instructions* Use an extinguishing agent suitable for surrounding fires.  
Not available.  
*Protective Clothing (Fire)* Be sure to use an approved/certified respirator or equivalent.  
*Hazardous thermal (de)composition products* Not available.

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## **Section 6. Accidental Release Measures**

*Personal precautions* Safety glasses. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.  
*Environmental Precautions and Clean-up Methods* Absorb with an inert material and put the spilled material in an appropriate waste disposal.  
*Small Spill and Leak* Absorb with an inert material and put the spilled material in an appropriate waste disposal.

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**Section 7. Handling and Storage**

**Handling** 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**  
**Suitable / Not suitable** Use original container.

**Section 8. Exposure Controls/Personal Protection**

**Engineering Controls** Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are proximal to the workstation location.

Exposure Limit Values	
<u>Ingredient Name</u>	<u>Occupational Exposure Limits</u>
United States	

**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** Liquid. (Suspension.)

**Color** Not available.

**Odor** Not available.

**Molecular Weight** Not applicable.

**Taste** Not available.

**pH (1% Soln/Water)** Neutral.

**Boiling/Condensation Point** The lowest known value is 100°C (212°F) (Milli-Q Water).

**Melting/Freezing Point** May start to solidify at 0°C (32°F) based on data for: Milli-Q Water.

**Specific Gravity** The only known value is 1 (Water = 1) (Milli-Q Water).

**Vapor Pressure** The highest known value is 2.3 kPa (17.5 mm Hg) (at 20°C) (Milli-Q Water).

**Vapor Density** The highest known value is 0.62 (Air = 1) (Milli-Q Water).

**Evaporation Rate** 0.36 (Milli-Q Water) compared to Butyl acetate.

**Dispersion Properties** See solubility in water, acetone.

**Solubility** Partially soluble in acetone.  
 Insoluble in cold water, hot water.



## Section 10. Stability and Reactivity

**Stability and Reactivity** The product is stable.

**Conditions to avoid** Sodium azide may react with lead or copper plumbing to form highly explosive metal azides. (Sodium Azide)

**Materials to avoid** Reactive with oxidizing agents.

**Hazardous Polymerization** Will not occur.

**Hazardous Decomposition Products** Not available.



## Section 11. Toxicological Information

**Toxicity to Animals** **Milli-Q Water:**  
ORAL (LD50): Acute: >90000 mg/kg [Rat].

**Agarose**  
LD50: Not available.  
LC50: Not available.

:  
ORAL (LD50): Acute: 5900 mg/kg [Rat].

**Sodium Azide:**  
ORAL (LD50): Acute: 27 mg/kg [Rat]. 27 mg/kg [Mouse].  
DERMAL (LD50): Acute: 20 mg/kg [Rabbit].

**Chronic Effects on Humans** Contains material which causes damage to the following organs: skin, eyes.

**Other Toxic Effects on Humans** Slightly hazardous in case of eye contact (irritant), of ingestion, 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** To the best of our knowledge, the toxicological properties of this product have not been thoroughly investigated.

**Carcinogenicity** No known significant effects or critical hazards.

**Mutagenicity** No known significant effects or critical hazards.

**Reproductive toxicity** No known significant effects or critical hazards.

### Over-exposure signs/symptoms

**Inhalation** No known significant effects or critical hazards.

**Ingestion** No known significant effects or critical hazards.

**Skin** No known significant effects or critical hazards.

**Target organs** Contains material which causes damage to the following organs: skin, eyes.



## 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.

### Ecotoxicity data

Ingredient name

Species

Period

**Continued on Next Page**

Other ecological information

Persistence/degradability

Ingredient name

BOD<sub>5</sub>

COD

Ingredient name

Aquatic half-life

Photolysis

Bioaccumulative potential

Ingredient name

LogP<sub>ow</sub>

BCF

Mobility : Not available.

Other adverse effects : No known significant effects or critical hazards.



### Section 13. Disposal Considerations

Waste Stream Not available.

Methods of disposal The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

European waste catalogue (EWC) Not available.

Hazardous waste To present knowledge of the supplier, this product is not regarded as hazardous waste as defined by EU Directive 91/689/EC.

Denmark – Carcinogenic waste Not available.

Denmark - Waste card number Not available.

Denmark - Waste group Not available.

Sweden - thermoset plastic waste Not available.

Sweden - Waste group Not available.

Austria - Waste catalogue Not available.

Norway - Waste number Not available.

Norway - Hazardous waste To present knowledge of the supplier, this product is not regarded as hazardous waste as defined by SFT's Directive on special waste.

Switzerland - Waste code Not available.



### 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)**

This product is not classified according to the EU regulations.

**HCS Classification** Target organ effects

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**U.S. Federal Regulations** TSCA 8(b) inventory: Agarose; Sodium Azide; ; Milli-Q Water  
 TSCA 8(d) H and S data reporting: Sodium Azide  
 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.  
 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.

**State regulations** Pennsylvania RTK: Sodium Azide: (environmental hazard, generic environmental hazard)  
 Florida: Sodium Azide  
 Minnesota: Sodium Azide  
 Massachusetts RTK: Sodium Azide  
 New Jersey: Sodium Azide

**WHMIS (Canada)** Class D-2A: Material causing other toxic effects (VERY TOXIC).

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CEPA DSL: Agarose; Sodium Azide; ; Milli-Q Water  
 CEPA NDSL: Sodium Azide

**International Regulations**

**EINECS** Not available.

**DSCL (EEC)** This product is not classified according to the EU regulations.

**International Lists** Australia (NICNAS): Agarose; Sodium Azide; ; Milli-Q Water

Germany water class: Sodium Azide

Japan (METI): Sodium Azide; ; Milli-Q Water

Korea (TCCL): Agarose; Sodium Azide; ; Milli-Q Water

Philippines (RA6969): Agarose; Sodium Azide; ; Milli-Q Water

**State Regulations** Pennsylvania RTK: Sodium Azide: (environmental hazard, generic environmental hazard)  
 Florida: Sodium Azide  
 Minnesota: Sodium Azide  
 Massachusetts RTK: Sodium Azide  
 New Jersey: Sodium Azide

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**Section 16. Other Information**

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

Health	*	1
Fire Hazard		1
Reactivity		0
Personal Protection		G

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



**References** Not available.

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

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

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Verified by Company2.

Date of Previous Issue No Previous Validation

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**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.*