

**MATERIAL SAFETY DATA SHEET**  
**1x PBS solution (pH 7.4)**

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**1. Product And Company Identification**

**Teknova Inc.**

**2290 Bert Dr.**

**Hollister, Ca 95023**

Telephone Number: 831-637-1100

**Emergency Contacts/Telephone Numbers**

Chemtrec Emergency Phone Number: (800) 424-9300

Issue Date: 09/16/2009

Catalog Number: P0261

Product Name: 1x PBS solution (pH 7.4)

**2. Composition/Information On Ingredients**

Ingredients	Cas Number	Sara #:
Sodium Chloride	7647-14-5	N/A
Sodium Phosphate Dibasic	7558-79-4	N/A
Potassium Phosphate Monobasic	7778-77-0	N/A
Potassium Chloride	7447-40-7	N/A

**3. Hazards Identification**

Hmis Rating

Health: 0

Flammability: 0

Reactivity: 0

Nfpa Rating:

Health: 0

Flammability: 0

Reactivity: 0

Refer To Section 11 For More Information.

**4. First Aid Measures**

**Eye**

In Case Of Contact, Immediately Flush Eyes With Copious Amounts Of Water For At Least 15 Minutes. Assure Adequate Flushing By Separating The Eyelids With Fingers. Call A Physician.

**Skin**

In Case Of Contact, Immediately Wash Skin With Soap And Copious Amounts Of Water. Wash Contaminated Clothing Before Reuse.

**Inhalation**

If Inhaled, Remove To Fresh Air. If Not Breathing Give Artificial Respiration. If Breathing Is Difficult, Give Oxygen.

**Ingestion**

If Swallowed, Wash Out Mouth With Water Provided Person Is Conscious. Call A Physician.

**5. Fire Fighting Measures**

**Extinguishing Media**

Water Spray. Carbon Dioxide, Dry Chemical Powder Or Appropriate Foam.

**Firefighting Procedures**

Wear Self-Contained Breathing Apparatus And Protective Clothing To Prevent Contact With Skin And Eyes.

**Unusual Fire And Explosions Hazards**

Emits Toxic Fumes Under Fire Conditions.

**6. Accidental Release Measures**

**Personal Precautions**

Avoid Dust Formation.

**Environmental Precautions**

Do Not Let Product Enter Drains.

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**Methods For Cleaning Up**

Sweep Up And Shovel. Keep In Suitable, Closed Containers For Disposal.

**7. Handling And Storage**

**Handling**

Provide Appropriate Exhaust Ventilation At Places Where Dust Is Formed.

**Storage**

Keep Container Tightly Closed In A Dry And Well-Ventilated Place. Store Under Inert Gas. Hygroscopic

**Special Requirements**

Moisture Sensitive.

**8. Exposure Controls/Personal Protection**

**Engineering Controls**

Safety Shower And Eye Bath. Mechanical Exhaust Required.

**Personal Protective Equipment**

Respiratory: Use Respirators And Components Tested And Approved Under Appropriate Government Standards Such As Niosh (Us) Or Cen (Eu). Respiratory Protection Is Not Required. Where Protection Is Desired, Use Multi-Purpose Combination (Us) Or Type Abek (En 14387) Respirator Cartridges.

Hand: Protective Gloves.

Eye: Chemical Safety Goggles.

**General Hygiene Measures**

Wash Thoroughly After Handling.

**9. Physical And Chemical Properties**

**Appearance And Physical Properties:** Solid

Safety Data:

Molecular Weight 110.99 Amu

Bp/Bp Range 1,670 °C

Mp/Mp Range 772 °C

Vapor Pressure 0.01 MmHg 20 °C

Ph 7

Melting Point 252.6 °C (486.7 °F)

Boiling Point 1,413 °C (2,575 °F)

Vapor Pressure 1.33 Hpa (1.00 MmHg) At 865 °C (1,589 °F)

Density 1.520 G/Cm3

Water Solubility Soluble

**10. Stability And Reactivity**

**Storage Stability**

Stable Under Recommended Storage Conditions.

**Materials To Avoid**

Exposure To Moisture, Strong Oxidizing Agents.

**Hazardous Decomposition Products**

**Hazardous Decomposition Products Formed Under Fire Conditions.**

Sodium/Sodium Oxides, Hydrogen Chloride Gas, Magnesium Oxide, Phosphorous Oxides. Potassium Oxides

**11. Toxicological Information**

**Acute Toxicity**

**Toxicity Data**

Oral

Rat

1000 Mg/Kg

Ld50

Intraperitoneal

Rat

264 Mg/Kg

Ld50

Subcutaneous

Rat

2630 Mg/Kg

Ld50

Intramuscular

Rat

25 Mg/Kg

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Ld50  
Oral  
Mouse  
1940 Mg/Kg  
Ld50  
Intraperitoneal  
Mouse  
210 Mg/Kg  
Ld50  
Subcutaneous  
Mouse  
823 Mg/Kg  
Ld50  
Intravenous  
Mouse  
42 Mg/Kg  
Ld50  
Ld50 Dermal - Rabbit - > 4,640 Mg/Kg  
Remarks: Behavioral: Change In Motor Activity (Specific Assay).  
Behavioral: Convulsions Or Effect On Seizure Threshold.  
Behavioral: Somnolence (General Depressed Activity).  
**Irritation And Corrosion**  
Skin - Rabbit - Mild Skin Irritation - 24 H  
Eyes - Rabbit - Mild Eye Irritation  
**Route Of Exposure**  
Skin Contact: May Cause Skin Irritation.  
Skin Absorption: May Be Harmful If Absorbed Through The Skin.  
Eye Contact: May Cause Eye Irritation.  
Inhalation: Material May Be Irritating To Mucous Membranes And Upper Respiratory Tract. May Be Harmful If Inhaled.  
Ingestion: May Be Harmful If Swallowed.  
**Signs And Symptoms Of Exposure**  
To The Best Of Our Knowledge, The Chemical, Physical, And Toxicological Properties Have Not Been Thoroughly Investigated.

**12. Ecological Information**

**Elimination Information** N/A

**E Cotoxicity Effects**

Toxicity To Fish Lc50 - Lepomis Macrochirus (Bluegill) - 1,294.6 Mg/L - 96 H  
Lc50 - Pimephales Promelas (Fathead Minnow) - 880 Mg/L - 96 H  
Mortality Noec - Pimephales Promelas (Fathead Minnow) - 500 Mg/L - 7 D  
Mortality Loec - Pimephales Promelas (Fathead Minnow) - 1,000 Mg/L - 7 D  
Toxicity To Daphnia And Other Aquatic Invertebrates.  
Lc50 - Leuciscus Idus (Golden Orfe) - 7,700.00 Mg/L - 48 H  
Lc50 - Other Fish - 480 Mg/L - 96 H  
Toxicity To Daphnia And Other Aquatic Invertebrates.  
Ec50 - Daphnia Magna (Water Flea) - 83 Mg/L - 24 H  
Immobilization Ec50 - Daphnia Magna (Water Flea) - 140 Mg/L - 48 H  
Toxicity To Algae Ec50 - Scenedesmus Subspicatus - 2,200.00 Mg/L - 72 H  
Noec - Daphnia - 1,500 Mg/L - 7 D  
Lc50 - Daphnia Magna (Water Flea) - 1,661 Mg/L - 48 H

**13. Disposal Considerations**

Dispose Of Any Unused Material. Observe All Federal, State And Local Environmental Regulations.

**14. Transport Information**

**D** Dot

Proper Shipping Name: None

Non-Hazardous For Transport: This Substance Is Considered To Be Non-Hazardous For Transport.

Iata

Non-Hazardous For Aid Transport: Non-Hazardous For Air.

**15. Regulatory Information**

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United States Regulatory Information  
Sara Listed: No

Canada Regulatory Information  
Whmis Classification: This Product Has Been Classified In Accordance With The Hazard Criteria Of The Cpr, And The Msds Contains All The Information Required By The Cpr.  
Dsl: No  
Ndsl: No

**16. Other Information**

**Disclaimer**

For R&D Use Only. Not For Drug, Household Or Other Uses.

**Warranty**

The Above Information Is Believed To Be Correct But Does Not Purport To Be All Inclusive And Shall Be Used Only As A Guide. Teknova, Inc. Shall Not Be Held Liable For Any Damage Resulting From Handling Or From Contact With The Above Product.

Teknova, Inc.