

# Material Safety Data Sheet

## 1. Product and company identification

<b>Product name</b>	: Prestained Protein MW Marker	<b>Manufacturer</b>	: Thermo Fisher Scientific
<b>Supplier</b>	: Thermo Fisher Scientific Pierce Biotechnology P.O. Box 117 Rockford, IL 61105 United States 815.968.0747 or 800.874.3723		: Pierce Biotechnology P.O. Box 117 Rockford, IL 61105 United States 815.968.0747 800.874.3723
<b>Product No.</b>	: 0026612 0026613		
<b>MSDS #</b>	: 8529		
<b>Validation date</b>	: 10/11/2010.		
<b>Print date</b>	: 10/11/2010.		
<b>Responsible name</b>	: <b>MSDS Specialist</b>		
<b>In case of emergency</b>	: CHEMTREC: 800.424.9300 OUTSIDE US: 202.483.7616	<b>Use of Substance/Preparation</b>	Refer to the instruction booklet for proper and intended use. Otherwise, contact supplier for specific applications.

## 2. Hazards identification

<b>Physical state</b>	: Liquid.
<b>Odor</b>	: Weak. Characteristic.
<b>OSHA/HCS status</b>	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
<b>Emergency overview</b>	: <b>WARNING !</b> HARMFUL IF INHALED OR ABSORBED THROUGH SKIN. CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION. MAY CAUSE ALLERGIC SKIN REACTION. MAY BE HARMFUL IF SWALLOWED. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE.  Toxic by inhalation and in contact with skin. Harmful if swallowed. Irritating to eyes, respiratory system and skin. May cause sensitization by skin contact. Avoid exposure - obtain special instructions before use. Do not breathe vapor or mist. Do not ingest. Do not get in eyes or on skin or clothing. Contains material that can cause target organ damage. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.
<b>Routes of entry</b>	: Dermal contact. Eye contact. Inhalation. Ingestion.
<b>Potential acute health effects</b>	
<b>Inhalation</b>	: Toxic by inhalation. Irritating to respiratory system.
<b>Ingestion</b>	: Harmful if swallowed.
<b>Skin</b>	: Toxic in contact with skin. Irritating to skin. May cause sensitization by skin contact.
<b>Eyes</b>	: Irritating to eyes.
<b>Potential chronic health effects</b>	

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1/10

## Prestained Protein MW Marker

## 2. Hazards identification

<b>Chronic effects</b>	: Contains material that can cause target organ damage.
<b>Carcinogenicity</b>	: No known significant effects or critical hazards.
<b>Mutagenicity</b>	: No known significant effects or critical hazards.
<b>Teratogenicity</b>	: No known significant effects or critical hazards.
<b>Developmental effects</b>	: No known significant effects or critical hazards.
<b>Fertility effects</b>	: No known significant effects or critical hazards.
<b>Target organs</b>	: Contains material which causes damage to the following organs: kidneys, lungs, upper respiratory tract, skin, eyes. Contains material which may cause damage to the following organs: liver, gastrointestinal tract.
<b>Over-exposure signs/symptoms</b>	
<b>Inhalation</b>	: Adverse symptoms may include the following: respiratory tract irritation coughing
<b>Ingestion</b>	: No specific data.
<b>Skin</b>	: Adverse symptoms may include the following: irritation redness
<b>Eyes</b>	: Adverse symptoms may include the following: pain or irritation watering redness
<b>Medical conditions aggravated by over-exposure</b>	: Pre-existing respiratory, skin and digestive disorders and disorders involving any other target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

The preparation is not classified as dangerous according to Directive 1999/45/EC and its amendments.

**Classification** : Not classified.

**See toxicological information (section 11)**

## 3. Composition/information on ingredients

### United States

Name	CAS number	%
Glycerol	56-81-5	25 - 45
Sodium Dodecyl Sulfate	151-21-3	1 - 3

### Europe

**Substance/preparation** : Preparation

Ingredient name	CAS number	%	EC number	Classification
Glycerol	56-81-5	25 - 45	200-289-5	Not classified. [2]
Sodium Dodecyl Sulfate	151-21-3	1 - 3	205-788-1	R10 Xn; R21/22 Xi; R36/37/38 [1]

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### 3. Composition/information on ingredients

There are no ingredients or additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in section 8.

### 4. First aid measures

- Inhalation** : Get medical attention immediately. Move exposed person to fresh air. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Ingestion** : Get medical attention immediately. Wash out mouth with water. Remove dentures if any. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Get medical attention immediately. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing or wear gloves. Continue to rinse for at least 10 minutes. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Eye contact** : Get medical attention immediately. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing or wear gloves.

See section 11 for more detailed information on health effects and symptoms.

### 5. Fire-fighting measures

**Flammability of the product** : In a fire or if heated, a pressure increase will occur and the container may burst.

**Extinguishing media**

**Suitable** : Use an extinguishing agent suitable for the surrounding fire.

**Not suitable** : None known.

**Special exposure hazards** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

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3/10

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### 5. Fire-fighting measures

**Hazardous combustion products** : Decomposition products may include the following materials:  
carbon oxides  
sulfur oxides  
metal oxide/oxides

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### 6. Accidental release measures

- Personal precautions** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.
- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

### 7. Handling and storage

- Handling** : Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Storage** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

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4/10

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## 8 . Exposure controls/personal protection

**Product name**

**United States**

glycerin

**Exposure limits**

**ACGIH (United States).**

TWA: 10 mg/m<sup>3</sup>

**ACGIH TLV (United States).**

TWA: 10 mg/m<sup>3</sup> 8 hour(s). Form: Total particulates

TWA: 10 mg/m<sup>3</sup> 8 hour(s). Form: Mist

**OSHA PEL (United States, 11/2006).**

TWA: 5 mg/m<sup>3</sup> 8 hour(s). Form: Respirable fraction

TWA: 15 mg/m<sup>3</sup> 8 hour(s). Form: Total dust

**OSHA PEL 1989 (United States, 3/1989).**

TWA: 5 mg/m<sup>3</sup> 8 hour(s). Form: Respirable fraction

TWA: 10 mg/m<sup>3</sup> 8 hour(s). Form: Total dust

**ACGIH TLV (United States).**

TWA: 10 mg/m<sup>3</sup> 8 hour(s). Form: Total particulates

TWA: 15 mg/m<sup>3</sup> 8 hour(s). Form: Total dust

**OSHA PEL (United States). Notes: Respirable**

TWA: 15 mg/m<sup>3</sup> 8 hour(s).

**Europe**

glycerin

**ACGIH (United States).**

TWA: 10 mg/m<sup>3</sup>

**ACGIH TLV (United States).**

TWA: 10 mg/m<sup>3</sup> 8 hour(s). Form: Total particulates

TWA: 10 mg/m<sup>3</sup> 8 hour(s). Form: Mist

TWA: 10 mg/m<sup>3</sup> 8 hour(s). Form: Total particulates

**Consult local authorities for acceptable exposure limits.**

**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

**Engineering measures** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Personal protection**

**Respiratory**

: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

**Hands**

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

**Eyes**

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

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5/10

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## 8 . Exposure controls/personal protection

**Skin**

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Environmental exposure controls**

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## 9 . Physical and chemical properties

**Physical state**

: Liquid.

**Color**

: Blue.

**Odor**

: Weak. Characteristic.

**pH**

: 7.5

**Dispersibility properties**

: Dispersible in the following materials: cold water and hot water.

**Solubility**

: Easily soluble in the following materials: cold water and hot water.

## 10 . Stability and reactivity

**Chemical stability**

: The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.

**Conditions to avoid**

: No specific data.

**Incompatible materials**

: No specific data.

**Hazardous decomposition products**

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**Possibility of hazardous reactions**

: Will not occur.

## 11 . Toxicological information

**United States**

**Acute toxicity**

**Product/ingredient name**

glycerin

**Result**

LD50 Dermal

LD50

Intraperitoneal

LD50 Intravenous

LD50 Oral

LD50 Oral

LD50

Subcutaneous

LDLo

Intramuscular

LDLo

Intramuscular

TDLo

Intramuscular

TDLo

Intramuscular

TDLo

Intramuscular

**Species**

Rat

Rat

Rat

Rat

Rat

Rat

Rat

Rat

Rat

Rat

Rat

Rat

Rat

Rat

Rat

Rat

Rat

Rat

**Dose**

>21900 mg/kg

4420 mg/kg

5566 mg/kg

12600 mg/kg

12600 mg/kg

100 mg/kg

10 mL/kg

10 mg/kg

4 mL/kg

>5000 mg/kg

4000 mg/kg

6/10

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## 11 . Toxicological information

sodium dodecyl sulphate	TDLo	Rat	8 mL/kg	-
	Intramuscular			
	LC50 Inhalation	Rat	>570 mg/m <sup>3</sup>	1 hours
	Vapor			
	LD50 Dermal	Rabbit	580 mg/kg	-
	LD50	Rat	210 mg/kg	-
	Intraperitoneal			
	LD50 Intravenous	Rat	118 mg/kg	-
	LD50 Oral	Rat	1288 mg/kg	-
	LC50 Inhalation	Rat	>3900 mg/m <sup>3</sup>	1 hours
	Dusts and mists			

**Conclusion/Summary** : Not available.

Chronic toxicity

Product/ingredient name	Result	Species	Dose	Exposure
glycerin	Sub-chronic	Rat	16800 mg/kg	28 days
	TD50 Oral			Continuous
	Sub-chronic	Rat	96 g/kg	30 days
	TD50 Oral			Intermittent

**Conclusion/Summary** : Not available.

Carcinogenicity

Product/ingredient name	Result	Species	Dose	Exposure
glycerin	Equivocal - Oral - TDLo	Mouse	87.5 g/kg	25 weeks Intermittent

**Conclusion/Summary** : Not available.

Classification

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
glycerin	-	-	-	-	-	None.
sodium dodecyl sulphate	A2	-	-	None.	-	None.

Mutagenicity

Product/ingredient name	Test	Experiment	Result
glycerin	DNA Inhibition	Mammalian-Human	Positive
	Cytogenetic Analysis	Mammalian-Animal	Positive

**Conclusion/Summary** : Not available.

Teratogenicity

**Conclusion/Summary** : Not available.

Reproductive toxicity

Product/ingredient name	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure
glycerin	-	-	-	Rat - Male	Unreported: 862 mg/kg	1 days
	-	Positive	-	Rat - Male	Oral: 100 mg/kg	1 days
	-	-	-	Mammal - species unspecified	Unreported: 119 mg/kg	1 days

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7/10

## Prestained Protein MW Marker

## 11 . Toxicological information

sodium dodecyl sulphate	-	Positive	-	- Male	Unreported: 1600 mg/kg	1 days
	-	-	-	Rat - Male	Unreported: 280 mg/kg	2 days
	-	-	-	Rat - Male	Unreported: 280 mg/kg	2 days
	-	-	-	Mouse	Dermal: 480 mg/kg	-

**Conclusion/Summary** : Not available.

Europe

<b>Chronic effects</b>	: No known significant effects or critical hazards.
<b>Carcinogenicity</b>	: No known significant effects or critical hazards.
<b>Mutagenicity</b>	: No known significant effects or critical hazards.
<b>Teratogenicity</b>	: No known significant effects or critical hazards.
<b>Developmental effects</b>	: No known significant effects or critical hazards.
<b>Fertility effects</b>	: No known significant effects or critical hazards.

## 12 . Ecological information

**Environmental effects** : No known significant effects or critical hazards.

United StatesAquatic ecotoxicity

**Conclusion/Summary** : Not available.

## 13 . Disposal considerations

**Waste disposal** : The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**Hazardous waste** : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

**Disposal should be in accordance with applicable regional, national and local laws and regulations.**

**Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.**

## 14 . Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*
<b>DOT Classification</b>	Not regulated.	-	-	-
<b>IATA-DGR Class</b>	Not available.	Not available.	Not available.	-

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8/10

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## 14 . Transport information

PG\* : Packing group

## 15 . Regulatory information

### United States

#### HCS Classification

: Toxic material  
Irritating material  
Sensitizing material  
Target organ effects

#### U.S. Federal regulations

: TSCA 8(a) IUR: glycerin  
**United States inventory (TSCA 8b):** At least one component is not listed.  
**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:** sodium dodecyl sulphate; glycerin  
**SARA 311/312 MSDS distribution - chemical inventory - hazard identification:**  
sodium dodecyl sulphate: Immediate (acute) health hazard, Delayed (chronic) health hazard; glycerin: Immediate (acute) health hazard, Delayed (chronic) health hazard  
**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.

### Canada

#### WHMIS (Canada)

#### Canadian lists

: Class D-2B: Material causing other toxic effects (Toxic).  
: **CEPA Toxic substances:** None of the components are listed.  
**Canadian ARET:** None of the components are listed.  
**Canadian NPRI:** None of the components are listed.  
**Alberta Designated Substances:** None of the components are listed.  
**Ontario Designated Substances:** None of the components are listed.  
**Quebec Designated Substances:** None of the components are listed.

#### Canada inventory

: **Canada inventory:** Not determined.

### EU regulations

#### Risk phrases

: This product is not classified according to EU legislation.  
:

### International regulations

#### International lists

: **Australia inventory (AICS):** Not determined.  
**China inventory (IECSC):** Not determined.  
**Korea inventory (KECI):** Not determined.  
**Philippines inventory (PICCS):** Not determined.  
**Japan inventory (ENCS):** Not determined.

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9/10

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## 16 . Other information

**Label requirements** : HARMFUL IF INHALED OR ABSORBED THROUGH SKIN. CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION. MAY CAUSE ALLERGIC SKIN REACTION. MAY BE HARMFUL IF SWALLOWED. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE.

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

Health	2
Flammability	0
Physical hazards	0

The customer is responsible for determining the PPE code for this material.

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



**Date of printing** : 10/11/2010.  
**Date of issue** : 10/11/2010.  
**Date of previous issue** : No previous validation.  
**Version** : 1

Indicates information that has changed from previously issued version.

**Full text of R-phrases referred to in sections 2 and 3 - Europe** : R10- Flammable.  
R21/22- Harmful in contact with skin and if swallowed.  
R36/37/38- Irritating to eyes, respiratory system and skin.  
**Full text of classifications referred to in sections 2 and 3 - Europe** : Xn - Harmful  
Xi - Irritant

### 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.

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

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