# Safety Data Sheet

**according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations**

Revision: Sept 25, 2026

## 1 Identification

· **Product identifier**

· **Trade name: Protein Solutions**

· **Other means of identification:**

1001 - ELISA Grade Chick Type I Collagen
1002 - ELISA Grade Bovine Type I Collagen
1003 - ELISA Grade Porcine Type I Collagen
1004 - ELISA Grade Rat Type I Collagen
1005 - ELISA Grade Human Type I Collagen
1006 - ELISA Grade Mouse Type I Collagen
1093 - ELISA Grade Porcine Type III Collagen
1202 - Cell Culture Grade Bovine Type I Collagen
1203 - Cell Culture Grade Porcine Type I Collagen
2011 - ELISA Grade Chick Type II Collagen
2012 - ELISA Grade Bovine Type II Collagen
2013 - ELISA Grade Porcine Type II Collagen
2014 - ELISA Grade Rat Type II Collagen
2015 - ELISA Grade Human Type II Collagen
2016 - ELISA Grade Mouse Type II Collagen
2017 - ELISA Grade Monkey Type II Collagen
2071 - Solution A
2072 - Solution B
2073 - Solution C
3009 - IgE Dilution Buffer
5004 - Recombinant *Alternaria alteranata* Allergen, Alt a 1 (ALTA1)
7005 - Mouse Anti-Type II Collagen mAb Cocktail
7006 - Mouse Anti-Type II Collagen mAb Cocktail, Biotinylated
7010 - Human/Monkey IgG Kit Standard
7011 - Human/Monkey IgA Kit Standard
7018 - Mouse Anti-Type IX Collagen mAb Cocktail
7019 - Mouse Anti-Type IX Collagen mAb Cocktail, Biotinylated
7025 - Rat Anti-Human Type I Collagen mAb, Clone 42r
7026 - Rat Anti-Human Type I Collagen mAb, Clone 42r, Biotinylated
7028 - Rabbit Anti-Bovine HMGB1 IgG Antibodies
7029 - Rabbit Anti-HMGB1 Peptide (2-11) Antibodies
7030 - Rabbit Anti-HMGB1 Peptide (166-176) Antibodies
7032 - Mouse Anti-HMGB1 Peptide (2-11) mAb, Clone 1-1.2BP1
7033 - Mouse Anti-HMGB1 Peptide (2-11) mAb, Clone 1-2.5AP1
7034 - Mouse Anti-HMGB1 Peptide (2-11) mAb, Clone 1-3.10EP1
7037 - Mouse Anti-HMGB1 Peptide (166-176) mAb, Clone 1-1.2.11.P2
7039 - Mouse Anti-Human Herp mAb, Clone HT2
7040 - Mouse Anti-Human Herp mAb, Clone HT2, Biotinylated
7041 - Rat Anti-Mouse Type I Collagen mAb, Clone 8D4A1
7042 - Rat Anti-Mouse Type I Collagen mAb, Clone 8D4A1, Biotinylated
7043 - Mouse Anti-Rat Type I Collagen mAb, Clone 1F10C2
7044 - Mouse Anti-Rat Type I Collagen mAb, Clone 1F10C2, Biotinylated
7045 - Rat Anti-Mouse Type I Collagen mAb, Clone 7G5D2
7046 - Rat Anti-Mouse Type I Collagen mAb, Clone 7G5D2, Biotinylated
7047 - Mouse Anti-Bovine HMGB1 mAb, Clone 1-37.10FH
7048 - Mouse Anti-Chick Type II Collagen (CB11) mAb, Clone 35
7049 - Mouse Anti-Chick Type II Collagen (CB11) mAb, Clone 35, Biotinylated
7050 - Mouse Anti-Chick Type II Collagen (CB11) mAb, Clone A2-10
7051 - Mouse Anti-Chick Type II Collagen (CB11) mAb, Clone A2-10, Biotinylated
7052 - Mouse Anti-Chick Type II Collagen (CB11) mAb, Clone D1-2G
7053 - Mouse Anti-Chick Type II Collagen (CB11) mAb, Clone D1-2G, Biotinylated
7054 - Mouse Anti-Chick Type II Collagen (CB11) mAb, Clone K4-5C
7055 - Mouse Anti-Chick Type II Collagen (CB11) mAb, Clone K4-5C, Biotinylated
7056 - Mouse Anti-Bovine Type IV (NC1) mAb, Clone 3-1-1
7057 - Mouse Anti-Bovine Type IV (NC1) mAb, Clone 3-1-1, Biotinylated
7058 - Mouse Anti-Mouse Type IV (NC1) mAb, Clone CB243
7059 - Mouse Anti-Mouse Type IV (NC1) mAb, Clone CB243, Biotinylated
7060 - Rat Anti-Rat Alpha 4 (IV) NC1 mAb, Clone a84

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7061 - Rat Anti-Rat Alpha 4 (IV) NC1 mAb, Clone a84, Biotinylated
7062 - Rat Anti-Rat Alpha 4 (IV) NC1 mAb, Clone b35
7063 - Rat Anti-Rat Alpha 4 (IV) NC1 mAb, Clone b35, Biotinylated
7064 - Chick Anti-Bovine HMGB1 IgY Antibodies
7065 - Mouse Anti-Chick Type II Collagen (CB8) mAb, Clone 5A4B11
7066 - Mouse Anti-Rat Type I Collagen mAb, Clone 2H12B4
7067 - Mouse Anti-Rat Type I Collagen mAb, Clone 2H12B4, Biotinylated
7068 - Mouse Anti-Bovine IV NC1 mAb, Clone 4-37-1
7069 - Mouse Anti-Bovine IV NC1 mAb, Clone 4-37-1, Biotinylated
7070 - Rat Anti-Human Alpha 1 (IV) NC1 mAb, Clone H11
7071 - Rat Anti-Human Alpha 2 (IV) NC1 mAb, Clone H22
7072 - Rat Anti-Mouse Alpha 6 (IV) NC1 mAb, Clone M69
7073 - Rat Anti-Human Alpha 4 (IV) NC1 mAb, Clone H43
7074 - Rat Anti-Human Alpha 6 (IV) NC1 mAb, Clone H63
7075 - Rat Anti-Human Alpha 2 (IV) NC1 mAb, Clone H25
7076 - Rat Anti-Human Alpha 3 (IV) NC1 mAb, Clone H31
7077 - Rat Anti-Human Alpha 5 (IV) NC1 mAb, Clone H52
7078 - Rat Anti-Human Alpha 5 (IV) NC1 mAb, Clone H53
7079 - Rat Anti-Mouse Alpha 5 (IV) NC1 mAb, Clone M54
7080 - Mouse Anti-Chick Type II Collagen mAb, Clone D8-6
7081 - Mouse Anti-Chick Type II Collagen mAb, Clone D8-6, Biotinylated
7082 - Mouse Anti-Chick Type II Collagen mAb, Clone F10-21
7083 - Mouse Anti-Chick Type II Collagen mAb, Clone F10-21, Biotinylated
7086 - Rat Anti-Human Type I Collagen mAb, Clone 222b
7087 - Rat Anti-Human Type I Collagen mAb, Clone 222b, Biotinylated
7090 - Mouse Anti-Ovalbumin IgA mAb, Clone 2G12E12
7091 - Mouse Anti-Ovalbumin IgE mAb, Clone E-C1
7092 - Mouse Anti-Ovalbumin IgE mAb, Clone E-G5
7093 - Mouse Anti-Ovalbumin IgG1 mAb, Clone L71
7094 - Mouse Anti-Ovalbumin IgG1 mAb, Clone 2322
7095 - Mouse Anti-Ovalbumin IgG2a mAb, Clone M12E4D5
7096 - Mouse Anti-Ovalbumin IgG2b mAb, Clone 4B4E6
7097 - Mouse Anti-Ovalbumin IgM mAb, Clone 2H11A8
7098 - Mouse Anti-LPS/*E. coli* IgG1 mAb, Clone 1C6
7099 - Mouse Anti-LPS/*E. coli* IgG2a mAb, Clone 1E1F10
7100 - Mouse Anti-LPS/*E. coli* IgG2b mAb, Clone 2H10
7101 - Mouse Anti-LPS/*E. coli* IgG3 mAb, Clone 2A5
7102 - Mouse Anti-*E. coli* IgM mAb, Clone 3H11
7103 - Mouse Anti-SEB IgG1 mAb, Clone 2D1G10
7104 - Mouse Anti-SEB IgG2a mAb, Clone 1B10A6
7105 - Mouse Anti-SEB IgG2b mAb, Clone 5D12C9
7106 - Mouse Anti-SEA IgG1 mAb, Clone 6B5F2
7107 - Mouse Anti-SEA IgG2a mAb, Clone 2E11F7
7108 - Mouse Anti-SEA IgG2b mAb, Clone 1E10G12
7109 - Mouse Anti-Ovalbumin IgG2c mAb, Clone 3E3A9
7110 - Mouse Anti-Canine CRP IgG mAb, Clone 4D3C1
7111 - Mouse Anti-Feline SAA IgG mAb, Clone 8C6C10
7112 - Mouse Anti-House Dust Mite (HDM) Der p 10 IgG2b mAb, Clone 3C4H2
7113 - Mouse Anti-House Dust Mite (HDM) Der p 10 IgG1 mAb, Clone 2H10
7114 - Mouse Anti-Human CD9 IgG mAb, Clone 1H1H7
7115 - Mouse Anti-DNA IgM mAb, Clone 2H6G7
7116 - Mouse Anti-Type II Collagen (CB10) IgG mAb, Clone C2B-14
7117 - Mouse Anti Cry j1 IgG1 mAb, Clone P1-8
7118 - Mouse Anti-Human CD63 IgG mAb, Clone 1B9C2
7119 - Mouse Anti-Human CD63 IgG mAb, Clone 1B12E10
7122 - Mouse Anti-PD-L1 IgG mAb, Clone 3A9F12
7123 - Mouse Anti-PD-1 IgG mAb, Clone 2H2H11
7124 - Mouse Anti-Ro60 IgG1 mAb, Clone 1G6B4
7125 - Mouse Anti-Ro60 IgG2b mAb, Clone 1B1E1
7126 - Mouse Anti-Ro60 IgG2a mAb, Clone 1G4H5
7127 - Mouse Anti-House Dust Mite (HDM) Der p 10 IgG2a mAb, Clone 2A11C4
7128 - Mouse Anti-House Dust Mite (HDM) Der p 10 IgG3 mAb, Clone 4B9C10
7129 - Mouse IgE mAb, Isotype Control, Clone 2A101A12

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7130 - Mouse Anti-Mouse CTLA4 IgG1 mAb, Clone 3B8C7
7131 - Mouse Anti-Mouse CTLA4 IgG2a mAb, Clone 4E12D1
7132 - Mouse Anti-House Dust Mite (HDM) D. pteronyssinus IgA mAb, Clone G4H9G12
7133 - Mouse Anti-Mouse CTLA4 IgG2a mAb, Clone 2H9G9
7134 - Mouse Anti-Mouse PD-L1 IgG2b mAb, Clone 3H9G2
7135 - Rat Anti-Human Type I Collagen mAb, Clone 1C1F8
7136 - Mouse Anti-Human Type I & III Collagen mAb, Clone 3E9B3
7137 - Mouse Anti-Porcine Type III Collagen mAb, Clone 4E2G1
7138 - Mouse Anti-Human Type I & III Collagen mAb, Clone 2H11B10
7139 - Mouse Anti-*P. gingivalis* & LPS IgM mAb, Clone 2-3G1
7140 - Mouse Anti-*P. gingivalis* & LPS IgG3 mAb, Clone 2-3A11
7141 - Mouse Anti-House Dust Mite (HDM) Der p 1 IgG1 mAb, Clone 3B9E5
7143 - Mouse Anti-Mouse Interleukin-10 Receptor (IL-10RA) IgG1 mAb, Clone 3H10A10
7144 - Mouse Anti-Mouse Interleukin-10 Receptor (IL-10RA) IgG2a mAb, Clone 2B8A1
7145 - Mouse Anti-Mouse Interleukin-10 Receptor (IL-10RA) IgG2b mAb, Clone 2E2E11
7146 - Mouse Anti-Mouse Interleukin-10 Receptor (IL-10RA) IgM mAb, Clone 2C1C10
7147 - Mouse Anti-Gliadin IgG1 mAb, Clone 4E3G11
7148 - Mouse Anti-Gliadin IgG2a mAb, Clone 1H1D9
7149 - Mouse Anti-Gliadin IgG2b mAb, Clone 3A10H10
7150 - Mouse Anti-Gliadin IgM mAb, Clone 1G2H7
7151 - Mouse Anti-Ara h6 IgG1 mAb, Clone 1A9H5
7152 - Mouse Anti-Ara h2/h6 IgG1 mAb, Clone 4B12H7
7153 - Mouse Anti-Ara h3 IgE mAb, Clone 2G11G7
7154 - Mouse Anti-Ara h1 IgM mAb, Clone 3A11E11
7155 - Mouse Anti-House Dust Mite (HDM) Der p 2 IgG2a mAb, Clone 3H8D12
7156 - Mouse Anti-House Dust Mite (HDM) Der p 2 IgG2b mAb, Clone 4C10H3
7157 - Mouse Anti-House Dust Mite (HDM) Der p 2 IgM mAb, Clone 2D2B12
7158 - Mouse Anti-House Dust Mite (HDM) Der p 1 IgG3 mAb, Clone 3H4E1
7159 - Mouse Anti-Mouse Myeloperoxidase (MPO) IgG3 mAb, Clone 3B6A10
7160 - Mouse Anti-Mouse Myeloperoxidase (MPO) IgM mAb, Clone 8B3A6
7161 - Mouse Anti-Ara h 1 IgG1 mAb, Clone 3H10B4
7162 - Mouse Anti-Ara h 1 IgG2b mAb, Clone 3B3A10
7163 - Mouse Anti-Human Neutrophil Elastase IgG1 mAb, Clone 2D8B4
7164 - Rat Anti-Mouse S100A8 IgG2a mAb, Clone 3B9C9
7165 - Rat Anti-Mouse S100A9 IgG2a mAb, Clone 8A8B9
7166 - Mouse Anti-Mouse Aggrecan G1 Domain IgG1 mAb, Clone 3F4G10
9027 - Human/Monkey ELISA Solution A
9034 - Type II Collagen Detection Kit Standard
9038 - Human/Monkey ELISA Kit Solution B
9039 - Human/Monkey ELISA Kit Solution C
9050 - Bovine HMGB1
9053 - Solution B
9054 - Solution C
9058 - Cationic Bovine Serum Albumin
9066 - Buffered Normal Goat Serum
9067 - Normal Goat Serum
9072 - ELISA Buffered Blocking Agent
9073 - ELISA Blocking Agent
20012 - Immunization Grade Chick Type II Collagen
20022 - Immunization Grade Bovine Type II Collagen
20032 - Immunization Grade Porcine Type II Collagen
20042 - Immunization Grade Rat Type II Collagen
20052 - Immunization Grade Human Type II Collagen
20062 - Immunization Grade Mouse Type II Collagen
30052 - Mouse Total IgE Detection Kit Capture Antibody
30055 - Solution B
30056 - Solution C
30105 - Solution B
30106 - Solution C
30122 - Mouse Albumin Detection Kit Capture Antibody
30124 - Mouse/Rat Albumin Detection Kits Solution B
30192 - Mouse Total IgA Detection Kit Capture Antibody

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30202 - Rat Albumin Detection Kit Capture Antibody
30232 - Total IgG Capture Antibody
30235 - Total Solution B
30236 - Total Solution C
30242 - Total IgM Capture Antibody
30282 - Total IgG3 Capture Antibody
30313 - Solution B
30314 - Solution C
30374 - Solution E
31092 - Mouse Anti-Japanese Cedar Pollen (JCP) Antibody Kit Japanese Cedar Pollen Extract
60081 - Human Type I Collagen Detection Kit Standard
60101 - HMGB1 Detection Kit Standard
60102 - HMGB1 Detection Kit Capture Antibody
60106 - HMGB1 Detection Kit Solution C
60121 - Mouse Type I Collagen Detection Kit Standard
60122 - Mouse Type I Collagen Detection Kit Capture Antibody
60131 - Rat Type I Collagen Detection Kit Standard
60132 - Rat Type I Collagen Detection Kit Capture Antibody
60141 - Bovine Type I Collagen Detection Kit Standard
60142 - Bovine Type I Collagen Detection Kit Capture Antibody
60151 - Porcine Type I Collagen Detection Kit Standard
60152 - Porcine Type I Collagen Detection Kit Capture Antibody
60161 - Rabbit Type I Collagen Detection Kit Standard
60162 - Rabbit Type I Collagen Detection Kit Capture Antibody
60182 - Type II Collagen Detection Kit Capture Antibody
60191 - Canine Type I Collagen Detection Kit Standard
60192 - Canine Type I Collagen Detection Kit Capture Antibody
60212 - Human Type I Detection Kit Capture Antibody
60221 - Glycosaminoglycans Assay Kit Standard
60332 - CTX-1 Detection Kit Capture Antibody
60361 - Human CD9 Detection Kit Standard
60364 - Solution B
60356 - Solution E
60432 - Ara h6 Detection Kit Capture Antibody
60471 - Ara h 3 Detection Kit Capture Antibody
60483 - Hyaluronan Competition Assay Kit Biotinylated HABP
60493 - Hyaluronan Sandwich Assay Kit Biotinylated HABP
60512 - Mouse MPO Detection Kit Capture Antibody
60513 - Mouse MPO Detection Kit Detection Antibody
60542 - Mouse S100A8 Detection Kit Capture Antibody
60562 - Mouse S100A9 Detection Kit Capture Antibody
67015 - Solution B
67231 - Mouse CCL25 ELISA Kit Standard
68241 - Human CCL28 ELISA Kit Standard
70201 - Rat Nephritogenic Monoclonal Antibody (mAb), Clone 114, 1 mg: 1 mg/ml x 1 ml
70205 - Rat Nephritogenic Monoclonal Antibody (mAb), Clone 114, 5 mg: 1 mg/ml x 5 ml
70211 - Rat Nephritogenic Monoclonal Antibody (mAb), Clone a84, 1 mg: 1 mg/ml x 1 ml
70215 - Rat Nephritogenic Monoclonal Antibody (mAb), Clone a84, 5 mg: 1 mg/ml x 5 ml
70221 - Rat Nephritogenic Monoclonal Antibody (mAb), Clone b35, 1 mg: 1 mg/ml x 1 ml
70225 - Rat Nephritogenic Monoclonal Antibody (mAb), Clone b35, 5 mg: 1 mg/ml x 5 ml
70321 - Mouse Anti-HMGB1 Peptide (2-11) mAb, Clone 1-1.2BP1, Biotinylated
70331 - Mouse Anti-HMGB1 Peptide (2-11) mAb, Clone 1-2.5AP1, Biotinylated
70341 - Mouse Anti-HMGB1 Peptide (2-11) mAb, Clone 1-3.10EP1, Biotinylated
70371 - Mouse Anti-HMGB1 Peptide (166-176) mAb, Clone 1-1.2.11.P2, Biotinylated
70471 - Mouse Anti-Bovine HMGB1 mAb, Clone 1-37.10FH, Biotinylated
70651 - Mouse Anti-Type II Collagen CB8 mAb, Clone 5A4B11, Biotinylated
70751 - Rat Anti-Human Alpha 2 (IV) NC1 mAb, Clone H25, Biotinylated
70781 - Rat Anti-Human Alpha 5 (IV) NC1 mAb, Clone H53, Biotinylated
90011 - Collagen Staining Kit Antibody Dilution Buffer
90013 - Collagen Staining Kit Blocking Buffer
90014 - Collagen Staining Kit Type II Collagen mAb
90121 - Collagen Staining Kit Type IX Collagen Antibody
90441 - Collagen Staining Kit Human I Collagen mAb
300411 - OVA
601010 - HMGB1 Detection Kit Solution B

· **Recommended use and restriction on use**
· **Recommended use:** Laboratory chemicals
· **Restrictions on use:** For Research Use Only – Not Human or Therapeutic Use

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· **Details of the supplier of the Safety Data Sheet**
· **Manufacturer/Supplier:**
Chondrex, Inc.
16928 Woodinville-Redmond Rd NE Suite B101
Woodinville, WA 98072
USA
425-702-6365
support@chondrex.com
· **Emergency telephone number:**
ChemTel LLC
800-255-3924 (North America)
(+1) 813-248-0585 (International)

## 2 Hazard(s) identification

· **Classification of the substance or mixture**
The product is not classified as hazardous according to the Globally Harmonized System (GHS).

· **Label elements**
· **GHS label elements** Not regulated.
· **Hazard pictograms:** Not regulated.
· **Signal word:** Not regulated.
· **Hazard statements:** Not regulated.
· **Precautionary statements:** Not regulated.

· **Other hazards** There are no other hazards not otherwise classified that have been identified.

## 3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Components:**

| | | | |
|---|---|---|---|
| 56-81-5 | Glycerol | | 0-50% |
| 57-50-1 | Sucrose, pure | Combustible Dust | 0-30% |

## 4 First-aid measures

· **Description of first aid measures**
· **After inhalation:** Supply fresh air; consult doctor in case of complaints.
· **After skin contact:**
Wash with soap and water.
If skin irritation is experienced, consult a doctor.
· **After eye contact:**
Remove contact lenses if worn.
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
· **After swallowing:**
Rinse out mouth and then drink plenty of water.

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Do not induce vomiting; immediately call for medical help.
· **Most important symptoms and effects, both acute and delayed:**
Gastric or intestinal disorders when ingested.
Nausea in case of ingestion.
· **Indication of any immediate medical attention and special treatment needed:**
No relevant information available.

## 5 Fire-fighting measures

· **Extinguishing media**
· **Suitable extinguishing agents:**
The product is not flammable.
Use fire fighting measures that suit the environment.
· **For safety reasons unsuitable extinguishing agents:** None.
· **Special hazards arising from the substance or mixture** No relevant information available.
· **Advice for firefighters**
· **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.

## 6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation.
Use personal protective equipment as required.
For large spills, wear protective clothing.
· **Environmental precautions** No special measures required.
· **Methods and material for containment and cleaning up**
Wipe up small spills with paper towel and discard.
For larger spills, add sawdust, chalk or other inert binding material, then sweep up and discard.
· **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

## 7 Handling and storage

· **Handling**
· **Precautions for safe handling:** Open and handle receptacle with care.
· **Conditions for safe storage, including any incompatibilities**
· **Requirements to be met by storerooms and receptacles:**
Store in cool, dry conditions in well sealed receptacles.
· **Information about storage in one common storage facility:** Store away from foodstuffs.
· **Specific end use(s)** No relevant information available.

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## 8 Exposure controls/personal protection

· **Control parameters**

| · **Components with limit values that require monitoring at the workplace:** | |
|---|---|
| **56-81-5 Glycerol** | |
| PEL (USA) | Long-term value: 15* 5** mg/m³<br>mist; *total dust **respirable fraction |
| TLV (USA) | TLV withdrawn-insufficient data human occup. exp. |
| EL (Canada) | Long-term value: 10* 3** mg/m³<br>*mist; **mist, respirable |
| EV (Canada) | Long-term value: 10 mg/m³ |
| LMPE (Mexico) | Long-term value: 10 mg/m³ |
| **57-50-1 Sucrose, pure** | |
| PEL (USA) | Long-term value: 15* 5** mg/m³<br>*total dust **respirable fraction |
| REL (USA) | Long-term value: 10* 5** mg/m³<br>*total dust **respirable fraction |
| TLV (USA) | Long-term value: 10 mg/m³ |
| EL (Canada) | Long-term value: 10* 3** mg/m³<br>*total dust;**respirable fraction |
| EV (Canada) | Long-term value: 10 mg/m³<br>total dust |
| LMPE (Mexico) | Long-term value: 10 mg/m³<br>A4 |

· **Exposure controls**

· **General protective and hygienic measures:**
The usual precautionary measures for handling chemicals should be followed.
Keep away from foodstuffs, beverages and feed.

· **Engineering controls:** No relevant information available.

· **Breathing equipment:** Not required under normal conditions of use.

· **Protection of hands:**

Protective gloves

· **Material of gloves** Rubber gloves

· **Eye protection:**

Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear.

· **Body protection:**
Protective work clothing
Protection may be required for spills.

· **Limitation and supervision of exposure into the environment** No special requirements.

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· **Risk management measures** No special requirements.

## 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

| | |
|---|---|
| · **Appearance:** | |
| **Form:** | Liquid |
| **Color:** | Clear to amber |
| · **Odor:** | Nearly odorless |
| · **Odor threshold:** | Not determined. |
| · **pH-value:** | Neutral |
| · **Melting point/Melting range:** | Not determined. |
| · **Boiling point/Boiling range:** | Not determined. |
| · **Flash point:** | Not applicable. |
| · **Flammability (solid, gaseous):** | Not applicable. |
| · **Auto-ignition temperature:** | Not determined. |
| · **Decomposition temperature:** | Not determined. |
| · **Danger of explosion:** | Product does not present an explosion hazard. |
| · **Explosion limits** | |
| **Lower:** | Not determined. |
| **Upper:** | Not determined. |
| · **Oxidizing properties:** | Non-oxidizing. |
| · **Vapor pressure:** | Not determined. |
| · **Density:** | |
| **Relative density:** | Not determined. |
| **Vapor density:** | Not determined. |
| **Evaporation rate:** | Not determined. |
| · **Solubility in / Miscibility with** | |
| **Water:** | Fully miscible. |
| · **Partition coefficient (n-octanol/water):** | Not determined. |
| · **Viscosity** | |
| **Dynamic:** | Not determined. |
| **Kinematic:** | Not determined. |
| · **Other information** | No relevant information available. |

## 10 Stability and reactivity

· **Reactivity:** No relevant information available.
· **Chemical stability:** Stable under normal temperatures and pressures.
· **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.

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· **Possibility of hazardous reactions** No dangerous reactions known.
· **Conditions to avoid** Excessive heat.
· **Incompatible materials** No relevant information available.
· **Hazardous decomposition products**
Under fire conditions only:
Carbon monoxide and carbon dioxide
Chlorine
Phosphorus oxides (e.g. P2O5)

## 11 Toxicological information

· **Information on toxicological effects**
· **Acute toxicity:** Based on available data, the classification criteria are not met.
· **LD/LC50 values that are relevant for classification:** None.
· **Primary irritant effect:**
· **On the skin:** Based on available data, the classification criteria are not met.
· **On the eye:** Based on available data, the classification criteria are not met.
· **Sensitization:** Based on available data, the classification criteria are not met.

| · **IARC (International Agency for Research on Cancer):** |
|---|
| None of the ingredients are listed. |
| · **NTP (National Toxicology Program):** |
| None of the ingredients are listed. |
| · **OSHA-Ca (Occupational Safety & Health Administration):** |
| None of the ingredients are listed. |

· **Probable route(s) of exposure:**
Ingestion.
Inhalation.
Eye contact.
Skin contact.
· **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.
· **Carcinogenicity:** Based on available data, the classification criteria are not met.
· **Reproductive toxicity:** Based on available data, the classification criteria are not met.
· **STOT-single exposure:** Based on available data, the classification criteria are not met.
· **STOT-repeated exposure:** Based on available data, the classification criteria are not met.
· **Aspiration hazard:** Based on available data, the classification criteria are not met.

## 12 Ecological information

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## 13 Disposal considerations

· **Waste treatment methods**
· **Recommendation:**
Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.
The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

· **Uncleaned packagings**
· **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

| | |
|---|---|
| · **UN-Number** | |
| · **DOT, ADR/RID/ADN, IMDG, IATA** | Not regulated. |
| · **UN proper shipping name** | |
| · **DOT, ADR/RID/ADN, IMDG, IATA** | Not regulated. |
| · **Transport hazard class(es)** | |
| · **DOT, ADR/RID/ADN, IMDG, IATA** | |
| · **Class** | Not regulated. |
| · **Packing group** | |
| · **DOT, ADR/RID/ADN, IMDG, IATA** | Not regulated. |
| · **Environmental hazards** | |
| · **Marine pollutant:** | No |
| · **Special precautions for user** | Not applicable. |
| · **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** | Not applicable. |

## 15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
· **United States (USA)**
· **SARA**

| |
|---|
| · **Section 302 (extremely hazardous substances):** |
| None of the ingredients are listed. |
| · **Section 313 (Specific toxic chemical listings):** |
| None of the ingredients are listed. |
| · **TSCA (Toxic Substances Control Act)** |

(Cont'd. on page 11)

# Safety Data Sheet

**according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations**

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**Trade name: Protein Solutions**

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All ingredients are listed or exempt.

· **Proposition 65 (California)**

| · **Chemicals known to cause cancer:** |
|---|
| None of the ingredients are listed. |
| · **Chemicals known to cause developmental toxicity for females:** |
| None of the ingredients are listed. |
| · **Chemicals known to cause developmental toxicity for males:** |
| None of the ingredients are listed. |
| · **Chemicals known to cause developmental toxicity:** |
| None of the ingredients are listed. |
| · **EPA (Environmental Protection Agency):** |
| None of the ingredients are listed. |
| · **IARC (International Agency for Research on Cancer):** |
| None of the ingredients are listed. |
| · **Canadian Domestic Substances List (DSL):** |
| All ingredients are listed or exempt. |

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Abbreviations and acronyms:**
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
OSHA: Occupational Safety & Health Administration

· **Sources**
Website, European Chemicals Agency (echa.europa.eu)
Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do)
Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)
Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6
Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.
Safety Data Sheets, Individual Manufacturers

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