# Safety Data Sheet

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

Revision: April 8, 2026

## 1 Identification

### · Product identifier

· **Trade name: Protein Solutions (50% Ethylene Glycol)**

· **Other product identifiers:**

7012 - Mouse IgG Secondary Antibody
10214 - Rat IgG Assay Kit Secondary Antibody
20402 - Rat IgG Subtype Kit IgG1 Secondary Antibody
20404 - Rat IgG Subtype Kit IgG2a Secondary Antibody
30113 - Mouse IgG Detection Antibody
30133 - IgG1 Detection Antibody
30153 - IgG2a Detection Antibody
30163 - IgG2b Detection Antibody
30173 - IgM Detection Antibody
30183 - IgA Detection Antibody
30193 - IgA Detection Antibody
30203 - Detection  Antibody
30233 - IgG Detection Antibody
30293 - IgG2c Detection Antibody
30303 - Mouse Anti-HDM IgG Kit Secondary Antibody - IgG
30343 - Mouse Anti-HDM IgG1 Kit Secondary Antibody - IgG1
30353 - Mouse Anti-HDM IgG2b Kit Secondary Antibody - IgG2b
30363 - Mouse Anti-HDM IgM Kit Secondary Antibody - IgM
30373 - Mouse Anti-HDM DP Serum IgE Kit Biotinylated HDM D. pteronyssinus
30383 - Mouse Anti-HDM IgG2a Kit Secondary Antibody - IgG2a
30393 - Mouse Anti-HDM IgG3 Kit Secondary Antibody - IgG3
30463 - Mouse Anti-HDM IgA Kit Secondary Antibody - IgA
30483 - Mouse Anti-Der p1 IgG1 Kit Secondary Antibody - IgG1
30493 - Mouse Anti-Der p1 IgM Kit Secondary Antibody - IgM
30503 - Mouse Anti-Gliadin IgE Kit Biotinylated Gliadin
30633 - Mouse Anti-CPE IgE Antibody Assay Kit Biotinylated CPE
30713 - Mouse Anti-Ara h3 IgE Antibody Assay Kit Biotinylated Ara h3
30723 - Mouse Anti-HDM IgG Kit Secondary Antibody - IgG
30753 - Mouse Anti-HDM IgG3 Kit Secondary Antibody - IgG3
30813 - Mouse Anti-HDM DF Serum IgE Kit Biotinylated HDM D. farinae
31043 - Mouse Anti-Glutenin IgE Kit Biotinylated Glutenin
31053 - Mouse Anti-Acarus siro IgG2b Kit Secondary Antibody - IgG2b
31063 - Mouse Anti Ara h 2 IgE Kit Biotinylated Ara h 2
31073 - Mouse Anti-Ara h 1 IgE Kit Biotinylated Ara h 1
31083 - Mouse Anti-JCP IgE Kit Biotinylated Japanese Cedar Pollen Extract
60273 - Canine CRP Detection Kit Detection Antibody
60283 - Feline SAA Detection Kit Detection Antibody
60293 - SEA Detection Kit Detection Antibody
60303 - SEB Detection Kit Detection Antibody
60313 - HDM (Der p 10) Detection Kit Detection Antibody
60323 - OVA Detection Kit Detection Antibody
60331 - CTX-1 Detection Kit Standard
60333 - CTX-1 Detection Kit Biotinylated CTX-1
60353 - Anti-Gliadin Detection Antibody
60363 - CD9 Detection Kit Detection Antibody
60373 - CD63 Detection Kit Detection Antibody
60383 - CD9 x CD63 Detection Kit Detection Antibody
60403 - NTX-1 Detection Kit Detection Antibody
60423 - Ara h6 Detection Antibody
60433 - Ara h2 Detection Antibody
60443 - HDM Der p1 Detection Kit Detection Antibody
60453 - Ara h 1 Detection Antibody
60463 - Mouse MCPT-1 Detection Kit Detection Antibody
60473 - Ara h 3 Detection Antibody
60492 - Hyaluronan Sandwich Assay Kit HABP for Coating
60503 - *Acarus siro* Antigen Detection Kit Detection Antibody
60523 - Glutenin Detection Kit Detection Antibody
60543 - Mouse S100A8 Detection Kit Detection Antibody
60563 - Mouse S100A9 Detection Kit Detection Antibody
60573 - Human Neutrophil Elastase Detection Kit Detection Antibody
60583 - Mouse Aggrecan Detection Kit Detection Antibody
61072 - Mouse anti-E. coli LPS Kit IgG1 Secondary Antibody
61102 - Mouse anti-E. coli LPS Kit IgG2a Secondary Antibody
61112 - Mouse anti-E. coli LPS Kit IgG2b Secondary Antibody
61123 - Mouse Anti-E. coli LPS Kit IgG3 Secondary Antibody
61133 - Human IgG Kit Secondary Antibody
61143 - Human IgA Kit Secondary Antibody

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62062 - Mouse Anti-E. coli Kit IgG Secondary Antibody
62072 - Mouse Anti-E. coli Kit IgG1 Secondary Antibody
62092 - Mouse Anti-E. coli Kit IgM Secondary Antibody
62102 - Mouse Anti-E. coli Kit IgG2a Secondary Antibody
62112 - Mouse Anti-E. coli Kit IgG2b Secondary Antibody
62122 - Mouse Anti-E. coli Kit IgG3 Secondary Antibody
62143 - Mouse Anti-SEB IgG Kit Secondary Antibody – IgG
62153 - Mouse Anti-SEB IgG1 Kit Secondary Antibody - IgG1
62163 - Mouse Anti-SEB IgG2a Kit Secondary Antibody - IgG2a
62173 - Mouse Anti-SEB IgG2b Kit Secondary Antibody - IgG2b
62183 - Mouse Anti-SEA IgG Kit Secondary Antibody - IgG
62193 - Mouse Anti-SEA IgG1 Kit Secondary Antibody - IgG1
62203 - Mouse Anti-SEA IgG2a Kit Secondary Antibody - IgG2a
62213 - Mouse Anti-SEA IgG2b Kit Secondary Antibody - IgG2b
62223 - Mouse Anti-PG-LPS Kit IgG Secondary Antibody
62233 - Mouse Anti-PG-LPS Kit IgM Secondary Antibody
62243 - Mouse Anti-PG-LPS Kit IgG3 Secondary Antibody
62253 - Mouse Anti-PG Kit IgG Secondary Antibody
62263 - Mouse Anti-PG Kit IgM Secondary Antibody
62273 - Mouse Anti-PG Kit IgG3 Secondary Antibody
62283 - Mouse Anti-L. casei Kit IgM Secondary Antibody
62293 - Mouse Anti-L. casei Kit IgG Secondary Antibody
67013 - Mouse TNF-alpha ELISA Kit Detection Antibody
67023 - Mouse IL-6 ELISA Kit Detection Antibody
67033 - Mouse IL-4 ELISA Kit Detection Antibody
67043 - Mouse IFN-gamma ELISA Kit Detection Antibody
67053 - Mouse IL-1beta ELISA Kit Detection Antibody
67063 - Mouse IL-10 ELISA Kit Detection Antibody
67083 - Mouse IL-17 ELISA Kit Detection Antibody
67093 - Mouse TGF-beta1 ELISA Kit Detection Antibody
67103 - Mouse VEGF ELISA Kit Detection Antibody
67113 - Mouse IL-2 ELISA Kit Detection Antibody
67123 - Mouse IL-13 ELISA Kit Detection Antibody
67133 - Mouse IL-5 ELISA Kit Detection Antibody
67143 - Mouse IL-23 ELISA Kit Detection Antibody
67143 - Mouse IL-12 ELISA Kit Detection Antibody
67213 - Mouse CCL2 ELISA Kit Detection Antibody
67223 - Mouse CCL5 ELISA Kit Detection Antibody
67233 - Mouse CCL25 ELISA Kit Detection Antibody
67243 - Mouse CCL28 ELISA Kit Detection Antibody
67253 - Mouse CXCL1 ELISA Kit Detection Antibody
67263 - Mouse CXCL12 ELISA Kit Detection Antibody
67273 - Mouse CXCL14 ELISA Kit Detection Antibody
67283 - Mouse CXCL17 ELISA Kit Detection Antibody
67293 - Mouse CXCL13 ELISA Kit Detection Antibody
67303 - Mouse CCL17 ELISA Kit Detection Antibody
67313 - Mouse CCL20 ELISA Kit Detection Antibody
67323 - Mouse CCL22 ELISA Kit Detection Antibody
68013 - Human TNF-alpha ELISA Kit Detection Antibody
68023 - Human IL-6 ELISA Kit Detection Antibody
68033 - Human IL-4 ELISA Kit Detection Antibody
68043 - Human IFN-gamma ELISA Kit Detection Antibody
68053 - Human IL-1beta ELISA Kit Detection Antibody
68063 - Human IL-10 ELISA Kit Detection Antibody
68083 - Human IL-17 ELISA Kit Detection Antibody
68093 - Human TGF-beta ELISA Kit Detection Antibody
68103 - Human VEGF ELISA Kit Detection Antibody

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68113 - Human IL-2 ELISA Kit Detection Antibody
68123 - Human IL-13 ELISA Kit Detection Antibody
68133 - Human IL-5 ELISA Kit Detection Antibody
68213 - Human CCL2 ELISA Kit Detection Antibody
68223 - Human CCL5 ELISA Kit Detection Antibody
68233 - Human CCL25 ELISA Kit Detection Antibody
68243 - Human CCL28 ELISA Kit Detection Antibody
68253 - Human CXCL1 ELISA Kit Detection Antibody
68263 - Human CXCL12 ELISA Kit Detection Antibody
68273 - Human CXCL14 ELISA Kit Detection Antibody
68283 - Human CXCL17 ELISA Kit Detection Antibody
69013 - Rat TNF-alpha ELISA kit Detection Antibody
203010 - Mouse IgG Subtype Kit IgG2c Secondary Antibody
203011 - Mouse IgG Subtype Kit IgG1 Secondary Antibody
203012 - Mouse IgG Subtype Kit IgG2a Secondary Antibody
203013 - Mouse IgG Subtype Kit IgG2b Secondary Antibody
203017 - Mouse IgG Subtype Kit IgG3 Secondary Antibody

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

· **Details of the supplier of the Safety Data Sheet**
· **Manufacturer/Supplier:**
Chondrex, Inc.
16928 Woodinville-Redmond Rd NE Suite B-101
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**

Acute Tox. 4 H302 Harmful if swallowed.

STOT RE 2 H373 May cause damage to the kidneys through prolonged or repeated exposure. Route of exposure: Oral.

· **Label elements**
· **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
· **Hazard pictograms:**

GHS07 GHS08

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· **Signal word:** Warning
· **Hazard statements:**
H302 Harmful if swallowed.
H373 May cause damage to the kidneys through prolonged or repeated exposure. Route of exposure: Oral.
· **Precautionary statements:**
P260 Do not breathe mist/vapors/spray.
P264 Wash thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.
P330 Rinse mouth.
P314 Get medical advice/attention if you feel unwell.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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

## 3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Components:**

| | | | |
|---|---|---|---|
| 107-21-1 | Ethylene glycol | STOT RE 2, H373<br>Acute Tox. 4, H302 | 40-60% |

· **Additional information:**
For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret.
For the wording of the listed Hazard Statements, refer to section 16.

## 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.
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.
Acidosis
Disorientation
Unconsciousness
· **Danger:** Harmful if swallowed.
· **Indication of any immediate medical attention and special treatment needed:**

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Medical supervision for at least 48 hours.
If medical advice is needed, have product container or label at hand.

## 5 Fire-fighting measures

· **Extinguishing media**
· **Suitable extinguishing agents:**
CO2, extinguishing powder or water spray. Fight larger fires with water spray.
· **For safety reasons unsuitable extinguishing agents:** None.
· **Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
· **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.
For large spills, wear protective clothing.
· **Environmental precautions**
Do not allow product to reach sewage system or any water course.
Prevent from spreading (e.g. by damming-in or oil barriers).
Inform respective authorities in case of seepage into water course or sewage system.
· **Methods and material for containment and cleaning up**
Towel or mop up material and collect in a suitable container.
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:**
Avoid splashes or spray in enclosed areas.
Open and handle receptacle with care.
Avoid breathing mist, vapors, or spray.
Use only in well ventilated areas.

· **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.

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**Trade name: Protein Solutions (50% Ethylene Glycol)**

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Store away from oxidizing agents.
· **Further information about storage conditions:**
This product is hygroscopic.
· **Specific end use(s)** No relevant information available.

## 8 Exposure controls/personal protection

· **Control parameters**

| · **Components with limit values that require monitoring at the workplace:** | |
|---|---|
| **107-21-1 Ethylene glycol** | |
| TLV (USA) | Short-term value: 10** mg/m³, 50* ppm<br>Long-term value: 25* ppm<br>*vapor fraction:**inh. fraction, aerosol only |
| EL (Canada) | Short-term value: 20** mg/m³<br>Long-term value: 10** mg/m³<br>Ceiling limit value: 100* mg/m³, 50*** ppm<br>*Aerosol; **Particulate; ***Vapour |
| EV (Canada) | Ceiling limit value: 100 mg/m³ |
| LMPE (Mexico) | Ceiling limit value: 100* mg/m³<br>A4, *solo aerosol |

· **Exposure controls**
· **General protective and hygienic measures:**
The usual precautionary measures for handling chemicals should be followed.
Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.
· **Engineering controls:** Provide adequate ventilation.
· **Breathing equipment:**
Not required under normal conditions of use.
Use suitable respiratory protective device when aerosol or mist is formed.
· **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
· **Limitation and supervision of exposure into the environment**
No relevant information available.
· **Risk management measures** No relevant information available.

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## 9 Physical and chemical properties

| | |
|---|---|
| · **Information on basic physical and chemical properties** | |
| · **Appearance:** | |
| **Form:** | Liquid |
| **Color:** | Clear |
| · **Odor:** | Characteristic |
| · **Odor threshold:** | Not determined. |
| · **pH-value:** | Not determined. |
| · **Melting point/Melting range:** | <0 °C (<32 °F) |
| · **Boiling point/Boiling range:** | >100 °C (>212 °F) |
| · **Flash point:** | >100 °C (>212 °F) |
| · **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 at 20 °C (68 °F):** | 1.0-1.1 |
| **Vapor density:** | Not determined. |
| **Evaporation rate:** | Not determined. |
| · **Solubility in / Miscibility with** | |
| **Water:** | Soluble. |
| · **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.
· **Possibility of hazardous reactions**
Reacts with strong oxidizing agents.
Toxic fumes may be released if heated above the decomposition point.

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· **Conditions to avoid** Excessive heat and contact with oxidizers.
· **Incompatible materials** Oxidizing agents.
· **Hazardous decomposition products**
Under fire conditions only:
Carbon monoxide and carbon dioxide

## 11 Toxicological information

· **Information on toxicological effects**
· **Acute toxicity:** Harmful if swallowed.
· **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:**
May cause damage to the kidneys through prolonged or repeated exposure. Route of exposure: Oral.
· **Aspiration hazard:** Based on available data, the classification criteria are not met.

## 12 Ecological information

· **Toxicity**
· **Aquatic toxicity** No relevant information available.
· **Persistence and degradability** No relevant information available.
· **Bioaccumulative potential:** No relevant information available.
· **Mobility in soil:** No relevant information available.
· **Additional ecological information**
· **General notes:**
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
· **Other adverse effects** No relevant information available.

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## 13 Disposal considerations

· **Waste treatment methods**
· **Recommendation:**
Contact waste processors for recycling information.
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):** | |
| 107-21-1 | Ethylene glycol |
| · **TSCA (Toxic Substances Control Act)** | |
| All ingredients are listed or exempt. | |

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· **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:** | |
| 107-21-1 | Ethylene glycol |
| · **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
Acute Tox. 4: Acute toxicity – Category 4
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

· **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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