

| | | coording to Regulation (EC) No. 1907/2006 as ame | | | | | |
|------------|--|--|---|--|--|--|--|
| | Section 1. | Identification of the Substance/Mixture a | nd of the Company/Undertaking | | | | |
| .1 | Product Code: | HP-GD | | | | | |
| | Product Name: | Human Prothrombin Des-Gla | | | | | |
| | Synonyms: | Human Factor II | | | | | |
| .2 | Relevant identified uses of | of the substance or mixture and uses advi | sed against: | | | | |
| | Relevant identified uses: For research use only. | | | | | | |
| .3 | Details of the Supplier of | | | | | | |
| | Company Name: | Enzyme Research Laboratories | | | | | |
| | | 1801 Commerce Dr. South Bend, IN 46628 | | | | | |
| | Web site address: | www.enzymeresearch.com | | | | | |
| .4 | | - | | | | | |
| .4 | Emergency telephone nu Emergency Contact: | Within USA and Canada: | +1 (800) 729-5270 | | | | |
| | Emergency contact. | Outside USA and Canada: | +1 (574) 288-2268 | | | | |
| | | | | | | | |
| | | Section 2. Hazards Ide | ntification | | | | |
| | | stance or Mixture: according to Regulation (EC) No 1272/2008 | [CLP]: | | | | |
| 2.1 2.2 | 2.1.1 Classification a Label Elements: 2.2.1 Labeling accord GHS Signal Word: | | | | | | |
| | 2.1.1 Classification a Label Elements: 2.2.1 Labeling accorr GHS Signal Word: GHS Hazard Phrases: | according to Regulation (EC) No 1272/2008 ding to Regulation (EC) No 1272/2008 [CLF urrently available data this substance or mixto | ?]: | | | | |
| | 2.1.1 Classification a Label Elements: 2.2.1 Labeling accorr GHS Signal Word: GHS Hazard Phrases: Based on evaluation of content of the second second | according to Regulation (EC) No 1272/2008 ding to Regulation (EC) No 1272/2008 [CLF urrently available data this substance or mixto | ?]: | | | | |
| | 2.1.1 Classification a Label Elements: 2.2.1 Labeling accord GHS Signal Word: GHS Hazard Phrases: Based on evaluation of classical designment of classical d | according to Regulation (EC) No 1272/2008 ding to Regulation (EC) No 1272/2008 [CLF urrently available data this substance or mixto es: | ?]: | | | | |
| | 2.1.1 Classification a Label Elements: 2.2.1 Labeling accord GHS Signal Word: GHS Hazard Phrases: Based on evaluation of condition of condition | according to Regulation (EC) No 1272/2008 ding to Regulation (EC) No 1272/2008 [CLF urrently available data this substance or mixto es: | ?]: | | | | |
| | 2.1.1 Classification a Label Elements: 2.2.1 Labeling accord GHS Signal Word: GHS Hazard Phrases: Based on evaluation of cd GHS Precaution Phrase No phrases apply. GHS Response Phrases | according to Regulation (EC) No 1272/2008 ding to Regulation (EC) No 1272/2008 [CLF urrently available data this substance or mixtu es: | ?]: | | | | |
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SAFETY DATA SHEET Human Prothrombin Des-Gla

2.3 Adverse Human Health Effects and Symptoms:

May be harmful by inhalation, ingestion, or skin absorption. May cause eye, skin, or respiratory system irritation.

To the best of our knowledge, the toxicological properties have not been thoroughly investigated

Section 3. Composition/Information on Ingredients

Biohazard - Handle as if capable of transmitting infectious agents.

| CAS # / RTECS # | Hazardous Components (Chemical Name)/ REACH Registration No. | Concentration | EC No./ EC Index No. | GHS Classification |
|------------------------|---|---------------|-------------------------|--------------------|
| 9001-26-7 NA | Human Prothrombin Des-Gla | ~98 - 99% | NA NA | No data available. |
| 7647-14-5 VZ4725000 | Sodium chloride | ~0 - 2% | 231-598-3 NA | No data available. |
| 77-86-1 TY2900000 | Tris 01-2119957659-16 | ~0 - 2% | 201-064-4 NA | No data available. |

Section 4. First Aid Measures

| 4.1 | Description of First Aid | No data available. |
|-----|--------------------------|--|
| | Measures: | |
| | In Case of Inhalation: | Move person to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. |
| | | Get immediate medical attention. |
| | In Case of Skin Contact: | Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated |
| | | clothing. Get medical attention if symptoms occur. Wash clothing before reuse. |
| | In Case of Eye Contact: | Flush eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by |
| | | medical personnel. |
| | In Case of Ingestion: | Wash out mouth with water provided person is conscious. Never give anything by mouth to an |
| | | unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by |
| | | medical personnel. |

Section 5. Fire Fighting Measures

| 5.1 | Suitable Extinguishing Media: | Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray. Use water spray to cool fire-exposed containers. | | | |
|-----|--|---|---------------|--|--|
| | Unsuitable Extinguishing | A solid water stream may be inefficie | ent. | | |
| | Media: | | | | |
| 5.2 | Flammable Properties and | d No data available. | | | |
| | Hazards: | | | | |
| | Flash Pt: | No data. | | | |
| | Explosive Limits: | LEL: No data. | UEL: No data. | | |
| | Autoignition Pt: | | | | |
| 5.3 | Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved c equivalent), and full protective gear to prevent contact with skin and eyes. | | | | |



| | | | Section 6. A | ccidental Releas | e Measures | | |
|-------|---|---------------------------------------|---------------------------------|------------------------------|-----------------------------------|--------------------------|--|
| 6.1 | 1 Protective Precautions, Avoid raising and breathing dust, and provide adequate ventilation. | | | | | | |
| | Protect | ive Equipment a | nd As conditions warr | ant, wear a NIOSH approv | ved self-contained breathing ap | paratus, or respirator, | |
| | Emergency Procedures: and appropriate personal protection (rubber boots, safety goggles, and heavy rubber glove | | | | | | |
| 6.2 | Enviror | imental | Take steps to avoi | id release into the environ | ment, if safe to do so. | | |
| | Precaut | tions: | | | | | |
| 6.3 | | | | ollect, as appropriate. | | | |
| | Contair | ment and Cleani | - | | isposal in accordance with local | | |
| | Up: | | | h contaminated area and | all cleaning materials with a 10% | % bleach aqueous | |
| | | | solution. | | | | |
| | | | Section | 7. Handling and | Storage | | |
| 7.1 | Precaut | tions To Be Take | - | st/fume/gas/mist/vapours/ | /spray. | | |
| | in Hand | lling: | Avoid prolonged or | repeated exposure. | | | |
| 7.2 | Precaut | tions To Be Take | n Keep container tig | - | | | |
| | in Stori | ng: | Store in accordanc | e with information listed of | n the product insert. | | |
| | | Sec | ction 8. Expos | sure Controls/Per | rsonal Protection | | |
| 8.1 | Exposu | re Parameters: | - 1 | | | | |
| CAS | | Partial Chemica | al Name | Britain EH40 | France VL | Europe | |
| 9001 | -26-7 | Human Prothron | nbin Des-Gla | No data. | No data. | No data. | |
| 764 | 7-14-5 | Sodium Chloride | e | No data. | No data. | No data. | |
| 77 | '- 86-1 | Tris | | TWA: 5.0 mg/m3 | TWA: 5 mg/m3 | No data. | |
| CAS | # | Partial Chemical Name | | OSHA TWA | ACGIH TWA | Other Limits | |
| 9001 | -26-7 | Human Prothron | nbin Des-Gla | No data. | No data. | No data. | |
| 764 | 7-14-5 | Sodium Chloride Tris | | No data. | No data. | No data. | |
| 77 | '- 86-1 | | | TWA: 5 mg/m3 | CEIL: 5 mg/m3 (salts) | No data. | |
| 8.2 | Exposu | re Controls: | | | | | |
| 8.2.1 | Engine | ering Controls | Use process enclo | sures, local exhaust ventil | ation, or other engineering cont | rols to control airborne | |
| | (Ventila | tion etc.): | levels below recom | nmended exposure limits. | | | |
| 8.2.2 | Person | al protection equ | uipment: | | | | |
| | Eye Pro | Eye Protection: Safety glasses | | | | | |
| | Protect | ive Gloves: | Compatible chemic | cal-resistant gloves | | | |
| | Other Protective Clothing:Lab coat | | | | | | |
| | Respira | tory Equipment | NIOSH approved r | espirator, as conditions wa | arrant. | | |
| | (Specify | у Туре): | | | | | |
| | Work/H | ygienic/Maintena | an Do not take interna | lly. | | | |
| | ce Prac | tices: | Facilities storing or | utilizing this material shou | uld be equipped with an eyewas | h and a safety shower | |
| | | | Wash thoroughly after handling. | | | | |
| | | | | - | | | |

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| | | Se | ction 9. Ph | nysical and Che | emical Pr | operties | | | |
|--------------|---|--|----------------------|------------------------|------------------|----------------|---------|------|--|
| 9.1 | Information on Basic Physical and Chemical Properties | | | | | | | | |
| | Physica | l States: | [] Gas | [X] Liquid (frozen) | [X] Solid | (Lyophilized) | | | |
| | Appeara | ance and Odor: | Solid | | | | | | |
| | Melting | Point: | No data. | | | | | | |
| | Boiling | Point: | No data. | | | | | | |
| | Flash Pt | t: | No data. | No data. | | | | | |
| | Evapora | ation Rate: | No data. | | | | | | |
| | Explosiv | ve Limits: | LEL: No | data. | UEL: No | o data. | | | |
| | - | ressure (vs. Air or r | nm No data. | | | | | | |
| | Hg): Vener D | | No data | | | | | | |
| | - | ensity (vs. Air = 1): | No data. | | | | | | |
| | - | : Gravity (Water = ty in Water: | No data. | | | | | | |
| | | ition Pt: | No data. No data. | | | | | | |
| 9.2 | - | formation | | | | | | | |
| 0.2 | | Volatile: | No data. | | | | | | |
| | | | Section | 10. Stability and | d Reacti | vity | | | |
| 10.1 | Reactivi | ity: N | lo data available | | | • | | | |
| 10.2 | Stability | r: L | Instable [] | Stable [X] | | | | | |
| 10.3 | Stability | v Note(s): | Stable if stored in | accordance with inforn | nation listed of | on the product | insert. | | |
| | Polyme | rization: V | Vill occur [] | Will not occur [X] | | | | | |
| 10.4 | Conditio | ons To Avoid: N | lo data available | | | | | | |
| 10.5 | Incompa | atibility - Materials N | lo data available | | | | | | |
| | To Avoi | d: | | | | | | | |
| 10.6 | Hazardous No data available. | | | | | | | | |
| | Decomposition Or | | | | | | | | |
| | Byprodu | ucts: | | | | | | | |
| | | | Section 1 | 1. Toxicologica | l Informa | ation | | | |
| 11.1 | Informa | Information on The toxicological effects of this product have not been thoroughly studied. | | | | | | | |
| | Toxicolo | ogical Effects: | | | | | | | |
| | | | | | | | | | |
| CAS | # | Hazardous Compo | onents (Chemic | al Name) | NTP | IARC | ACGIH | OSHA | |
| 9001· | -26-7 | Human Prothrombin | n Des-Gla | | n.a. | n.a. | n.a. | n.a. | |
| 764 | 47-14-5 | Sodium Chloride | | | n.a. | n.a. | n.a. | n.a. | |
| 77-86-1 Tris | | Tris | | | n.a. | n.a. | n.a. | n.a. | |



Revision: 03/26/2024

| | Section 12. Ecological Information | | | | |
|--------------|---|--|--|--|--|
| 12.1 | Toxicity: | Avoid release into the environment. Runoff from fire control or dilution water may cause pollution. | | | |
| 12.2 | Persistence and Degradability: | No data available. | | | |
| 12.3 | Bioaccumulative Potential: | No data available. | | | |
| 12.4 12.5 | Mobility in Soil: Results of PBT and vPvB assessment: | No data available. No data available. | | | |
| 12.6 | Other adverse effects: | No data available | | | |



| | Section 13. Dispos | sal Considerat | ions | | | | | |
|--|--|---|--|---|--|--|--|--|
| 3.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations. | | | | | | | | |
| | Section 14. Transport Information | | | | | | | |
| 14.1 LAND | TRANSPORT (US DOT): | | | | | | | |
| DOT Prop | er Shipping Name: Not dangerous goods. | | | | | | | |
| DOT Haza | ard Class: | | | | | | | |
| UN/NA Nu | ımber: | | | | | | | |
| 14.1 LAND | TRANSPORT (European ADR/RID): | | | | | | | |
| ADR/RID | Shipping Name: Not dangerous goods. | | | | | | | |
| UN Numb | er: | | | | | | | |
| Hazard C | ass: | | | | | | | |
| 14.3 AIR TH | RANSPORT (ICAO/IATA): | | | | | | | |
| ICAO/IAT | A Shipping Name: Not dangerous goods. | | | | | | | |
| Additional Tr | ansport Transport in accordance with lo | ocal, state, and federa | l regulations. | | | | | |
| Information: | | | | | | | | |
| | Section 15. Regu | latory Informa | tion | | | | | |
| EPA SARA (S | Superfund Amendments and Reauthorization Act | | | | | | | |
| CAS # | Hazardous Components (Chemical Name) | S. 302 (EHS) | S. 304 RQ | S. 313 (TRI) | | | | |
| 9001-26-7 | Human Prothrombin Des-Gla | No | No | No | | | | |
| 7647-14-5 | Sodium Chloride | No | No | No | | | | |
| 77-86-1 | Tris | No | No | Yes-Cat. N106 | | | | |
| CAS # | Hazardous Components (Chemical Name) | Other US EPA or | State Lists | | | | | |
| 9001-26-7 | Human Prothrombin Des-Gla | CAA HAP,ODC: No; Inventory; CA PRC | CWA NPDES: No; T)P.65: No | SCA: Yes - | | | | |
| 7647-14-5 | Sodium chloride | CAA HAP,ODC: No; PROP.65: No | CWA NPDES: No; T | SCA: No; CA | | | | |
| 77-86-1 | Tris | CAA HAP,ODC: No; PROP.65: No | CWA NPDES: No; T | SCA: No; CA | | | | |
| Regulatory In | formation This SDS was prepared in according | Drdance with 29 CFR | 1910.1200 and Regu | lation (EC) | | | | |
| Statement: | No.1272/2008. | | | | | | | |
| | Section 16. Ot | her Informatio | n | | | | | |
| Additional Inf | ormation About No data available. | | | | | | | |
| This Product: | | | | | | | | |
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