

Revision: 03/26/2024

|  | according to Regulation (EC) No. 1907/2006 as ame   | Ided by (EC) No. 1272/2008                              |
|--|---|---|
| Section 7  | 1. Identification of the Substance/Mixture a  | nd of the Company/Undertaking                           |
| .1 Product Code:   | HPS   |   |
| Product Name:  | Human Protein S   |   |
| 2 Relevant identified uses   | s of the substance or mixture and uses advis  | sed against:  |
| Relevant identified use  | es: For research use only.  |   |
| .3 Details of the Supplier of Company Name:  | of the Safety Data Sheet:<br>Enzyme Research Laboratories<br>1801 Commerce Dr.<br>South Bend, IN 46628  |   |
| Web site address:  | www.enzymeresearch.com  |   |
| 4 Emergency telephone n  | umber:  |   |
| Emergency Contact:   | Within USA and Canada:<br>Outside USA and Canada:   | +1 (800) 729-5270<br>+1 (574) 288-2268                  |
|  | Section 2. Hazards Ide  | ntification   |
| .1 Classification of the Sul   | bstance or Mixture:   |   |
| Eye Irritant, Category<br>Skin Irritant, Category<br>.2 Label Elements:  | 2   |   |
| Skin Irritant, Category<br>2 Label Elements:   |   | 2]:   |
| Skin Irritant, Category<br>2 Label Elements:<br>2.2.1 Labeling acco  | <sup>7</sup> 2<br>ording to Regulation (EC) No 1272/2008 [CLF   | 2]:   |
| Skin Irritant, Category<br>2 Label Elements:   | 2<br>ording to Regulation (EC) No 1272/2008 [CLF<br>Warning   | י]:   |
| Skin Irritant, Category<br>2 Label Elements:<br>2.2.1 Labeling acco<br>GHS Signal Word:<br>GHS Hazard Phrases:<br>H315: Causes skin irrita<br>H319: Causes serious s   | r 2<br>ording to Regulation (EC) No 1272/2008 [CLF<br>Warning<br>ation.<br>skin irritation.   | ²]:   |
| Skin Irritant, Category<br>2 Label Elements:<br>2.2.1 Labeling acco<br>GHS Signal Word:<br>GHS Hazard Phrases:<br>H315: Causes skin irrita<br>H319: Causes serious s<br>H335: May cause respin   | v 2<br>ording to Regulation (EC) No 1272/2008 [CLF<br>Warning<br>ation.<br>skin irritation.<br>ratory irritation.   | י]:   |
| Skin Irritant, Category<br>2 Label Elements:<br>2.2.1 Labeling acco<br>GHS Signal Word:<br>GHS Hazard Phrases:<br>H315: Causes skin irrita<br>H319: Causes serious s<br>H335: May cause respin<br>GHS Precaution Phrase  | warning to Regulation (EC) No 1272/2008 [CLF<br>Warning<br>ation.<br>skin irritation.<br>ratory irritation.   | י]:   |
| Skin Irritant, Category<br>2 Label Elements:<br>2.2.1 Labeling acco<br>GHS Signal Word:<br>GHS Hazard Phrases:<br>H315: Causes skin irrita<br>H319: Causes serious s<br>H335: May cause respin<br>GHS Precaution Phrase  | v 2<br>prding to Regulation (EC) No 1272/2008 [CLF<br>Warning<br>ation.<br>skin irritation.<br>ratory irritation.<br>ses:<br>[dust/fume/gas/mist/vapors/spray].   | י]:   |
| Skin Irritant, Category<br>2 Label Elements:<br>2.2.1 Labeling acco<br>GHS Signal Word:<br>GHS Hazard Phrases:<br>H315: Causes skin irrita<br>H319: Causes serious s<br>H335: May cause respin<br>GHS Precaution Phrase<br>P261: Avoid breathing {   | v 2<br>prding to Regulation (EC) No 1272/2008 [CLF<br>Warning<br>ation.<br>skin irritation.<br>ratory irritation.<br>ses:<br>[dust/fume/gas/mist/vapors/spray].   |   |
| Skin Irritant, Category<br>2 Label Elements:<br>2.2.1 Labeling acco<br>GHS Signal Word:<br>GHS Hazard Phrases:<br>H315: Causes skin irritat<br>H319: Causes serious s<br>H335: May cause respin<br>GHS Precaution Phrase<br>P261: Avoid breathing {<br>P264: Wash hands thom<br>P280: Wear protective s<br>GHS Response Phrase<br>P302+352: IF ON SKIN<br>P305+351+338: IF IN E<br>and ea<br>P304+340: IF INHALEE<br>P332+313: If skin irritat<br>P337+313: If eye irritat   | v 2<br>brding to Regulation (EC) No 1272/2008 [CLF<br>Warning<br>ation.<br>skin irritation.<br>ratory irritation.<br>ses:<br>{dust/fume/gas/mist/vapors/spray}.<br>roughly after handling<br>gloves/protective clothing/eye protection/face p<br>es:<br>N: Wash with plenty of water<br>EYES: Rinse cautiously with water for several n<br>asy to do – continue rinsing.<br>D: Remove victim to fresh air and keep at rest in<br>tion occurs, get medical advice/attention.<br>ion occurs, get medical advice/attention.  | rotection.<br>ninutes. Remove contact lenses if present |
| Skin Irritant, Category<br>2 Label Elements:<br>2.2.1 Labeling acco<br>GHS Signal Word:<br>GHS Hazard Phrases:<br>H315: Causes skin irritat<br>H319: Causes serious serious se<br>H335: May cause respin<br>GHS Precaution Phrase<br>P261: Avoid breathing serious serio | ation.   skin irritation.   ratory irritation.   ratory irritation.   ses:   (dust/fume/gas/mist/vapors/spray).   roughly after handling   gloves/protective clothing/eye protection/face p   es:   Yeas:   Yeas: | rotection.<br>ninutes. Remove contact lenses if present |



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Adverse Human Health

Effects and Symptoms:

2.3

# SAFETY DATA SHEET Human Protein S

Biohazard - Handle as if capable of transmitting infectious agents.

Causes mild skin irritation.

Revision: 03/26/2024

|   | Sect   | ion 3. Compositior  | n/Information   | on Ingredie  | ents  |
|---|--|---|---|--|---|
| CAS # /<br>RTECS #  | Hazardous Com<br>REACH Registra  | oonents (Chemical Name)/<br>tion No.  | Concentration   | EC No./<br>EC Index No.  | GHS Classification  |
| NA  | Human Protein S  |   | ~98 - 99%   | NA   | No data available.  |
| IA<br>7647-14-5<br>VZ4725000  | Sodium chloride  |   | ~0 - 2%   | NA<br>231-598-3<br>NA  | No data available.  |
| 7-86-1<br>Y2900000  | Tris<br>01-2119957659-16   | 3   | ~0 - 2%   | 201-064-4<br>NA  | No data available.  |
| 206752-36-5<br>IA   | Benzamidine  |   | ~0 - 2%   | 606-598-5<br>NA  | Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br>STOT SE 3; H335  |
|   |  | Section 4. Fi   | irst Aid Meas   | sures  |   |
| .1 Desc   | ription of First Aid   | No data available.  |   |  |   |
| Meas  | ures:  |   |   |  |   |
| In Ca   | se of Inhalation:  | Move person to freeh air. If r  | ot broathing give a   | rtificial respiration  | or give exugen by trained   |
| 04  |  | Move person to fresh air. If r personnel.   |   |  | or give oxygen by trained   |
|   |  | personnel.<br>Get immediate medical atter   | ntion.  |  |   |
|   |  | personnel.<br>Get immediate medical atter<br>Immediately wash skin with s   | ntion.<br>soap and plenty of w  | vater for at least 15  | minutes. Remove contaminate   |
| In Ca   | se of Skin Contact:  | personnel.<br>Get immediate medical atter<br>Immediately wash skin with s<br>clothing. Get medical attentio   | ntion.<br>coap and plenty of w<br>on if symptoms occu   | ater for at least 15<br>ur. Wash clothing b  | minutes. Remove contaminate   |
| In Ca   |  | personnel.<br>Get immediate medical atter<br>Immediately wash skin with s   | ntion.<br>coap and plenty of w<br>on if symptoms occu   | ater for at least 15<br>ur. Wash clothing b  | minutes. Remove contaminate   |
| In Ca<br>In Ca  | se of Skin Contact:  | personnel.<br>Get immediate medical atter<br>Immediately wash skin with s<br>clothing. Get medical attention<br>Flush eyes with plenty of war<br>medical personnel.<br>Wash out mouth with water p  | ntion.<br>coap and plenty of w<br>on if symptoms occu<br>ter for at least 15 m<br>provided person is c  | vater for at least 15<br>ur. Wash clothing b<br>inutes. Have eyes<br>conscious. Never g  | i minutes. Remove contaminate<br>before reuse.<br>examined and tested by  |
| In Ca<br>In Ca  | se of Skin Contact:<br>se of Eye Contact:  | personnel.<br>Get immediate medical atter<br>Immediately wash skin with s<br>clothing. Get medical attention<br>Flush eyes with plenty of war<br>medical personnel.<br>Wash out mouth with water p<br>unconscious person. Get me  | ntion.<br>coap and plenty of w<br>on if symptoms occu<br>ter for at least 15 m<br>provided person is c<br>edical attention. Do l  | vater for at least 15<br>ur. Wash clothing b<br>inutes. Have eyes<br>conscious. Never g<br>NOT induce vomiti                                   | i minutes. Remove contaminate<br>before reuse.<br>examined and tested by<br>ive anything by mouth to an                                   |
| In Ca<br>In Ca<br>In Ca   | se of Skin Contact:<br>se of Eye Contact:<br>se of Ingestion:<br>ble Extinguishing   | personnel.<br>Get immediate medical atter<br>Immediately wash skin with s<br>clothing. Get medical attention<br>Flush eyes with plenty of war<br>medical personnel.<br>Wash out mouth with water p<br>unconscious person. Get me<br>medical personnel.  | ntion.<br>soap and plenty of w<br>on if symptoms occu<br>ter for at least 15 m<br>provided person is c<br>edical attention. Do l<br><b>e Fighting Me</b><br>carbon dioxide, wat   | vater for at least 15<br>ur. Wash clothing b<br>inutes. Have eyes<br>conscious. Never g<br>NOT induce vomiti<br>easures<br>er, or dry chemica  | i minutes. Remove contaminate<br>before reuse.<br>examined and tested by<br>ive anything by mouth to an<br>ng unless directed to do so by |
| In Ca<br>In Ca<br>In Ca<br>.1 Suita<br>Media  | se of Skin Contact:<br>se of Eye Contact:<br>se of Ingestion:<br>ble Extinguishing<br>a:<br>itable Extinguishing   | personnel.<br>Get immediate medical atter<br>Immediately wash skin with s<br>clothing. Get medical attention<br>Flush eyes with plenty of war<br>medical personnel.<br>Wash out mouth with water p<br>unconscious person. Get me<br>medical personnel.<br>Section 5. Fire<br>Use alcohol-resistant foam,  | ntion.<br>soap and plenty of w<br>on if symptoms occu<br>ter for at least 15 m<br>provided person is o<br>edical attention. Do l<br><b>e Fighting Me</b><br>carbon dioxide, wat<br>exposed containers                   | vater for at least 15<br>ur. Wash clothing b<br>inutes. Have eyes<br>conscious. Never g<br>NOT induce vomiti<br>easures<br>er, or dry chemica  | i minutes. Remove contaminate<br>before reuse.<br>examined and tested by<br>ive anything by mouth to an<br>ng unless directed to do so by |
| In Ca<br>In Ca<br>In Ca<br>In Ca<br>Un Ca<br>Un Suita<br>Media<br>Media   | se of Skin Contact:<br>se of Eye Contact:<br>se of Ingestion:<br>ble Extinguishing<br>a:<br>itable Extinguishing<br>a:<br>mable Properties an                | personnel.<br>Get immediate medical atter<br>Immediately wash skin with s<br>clothing. Get medical attention<br>Flush eyes with plenty of war<br>medical personnel.<br>Wash out mouth with water p<br>unconscious person. Get me<br>medical personnel.<br><b>Section 5. Fire</b><br>Use alcohol-resistant foam,<br>Use water spray to cool fire-<br>A solid water stream may be                                     | ntion.<br>soap and plenty of w<br>on if symptoms occu<br>ter for at least 15 m<br>provided person is o<br>edical attention. Do l<br><b>e Fighting Me</b><br>carbon dioxide, wat<br>exposed containers                   | vater for at least 15<br>ur. Wash clothing b<br>inutes. Have eyes<br>conscious. Never g<br>NOT induce vomiti<br>easures<br>er, or dry chemica  | i minutes. Remove contaminate<br>before reuse.<br>examined and tested by<br>ive anything by mouth to an<br>ng unless directed to do so by |
| In Ca<br>In Ca<br>In Ca<br>In Ca<br>1 Suita<br>Media<br>Unsu<br>Media<br>2 Flam   | se of Skin Contact:<br>se of Eye Contact:<br>se of Ingestion:<br>ble Extinguishing<br>a:<br>itable Extinguishing<br>a:<br>mable Properties an<br>rds:        | personnel.<br>Get immediate medical atter<br>Immediately wash skin with s<br>clothing. Get medical attention<br>Flush eyes with plenty of war<br>medical personnel.<br>Wash out mouth with water p<br>unconscious person. Get me<br>medical personnel.<br><b>Section 5. Fire</b><br>Use alcohol-resistant foam,<br>Use water spray to cool fire-<br>A solid water stream may be                                     | ntion.<br>soap and plenty of w<br>on if symptoms occu<br>ter for at least 15 m<br>provided person is o<br>edical attention. Do l<br><b>e Fighting Me</b><br>carbon dioxide, wat<br>exposed containers                   | vater for at least 15<br>ur. Wash clothing b<br>inutes. Have eyes<br>conscious. Never g<br>NOT induce vomiti<br>easures<br>er, or dry chemica  | i minutes. Remove contaminate<br>before reuse.<br>examined and tested by<br>ive anything by mouth to an<br>ng unless directed to do so by |
| In Ca<br>In Ca | se of Skin Contact:<br>se of Eye Contact:<br>se of Ingestion:<br>ble Extinguishing<br>a:<br>itable Extinguishing<br>a:<br>mable Properties an<br>rds:        | personnel.<br>Get immediate medical atter<br>Immediately wash skin with s<br>clothing. Get medical attention<br>Flush eyes with plenty of war<br>medical personnel.<br>Wash out mouth with water p<br>unconscious person. Get me<br>medical personnel.<br><b>Section 5. Fire</b><br>Use alcohol-resistant foam,<br>Use water spray to cool fire-<br>on A solid water stream may be<br>d No data available.          | ntion.<br>soap and plenty of w<br>on if symptoms occu<br>ter for at least 15 m<br>provided person is o<br>edical attention. Do l<br><b>e Fighting Me</b><br>carbon dioxide, wat<br>exposed containers                   | vater for at least 15<br>ur. Wash clothing b<br>inutes. Have eyes<br>conscious. Never g<br>NOT induce vomiti<br>easures<br>er, or dry chemical | i minutes. Remove contaminate<br>before reuse.<br>examined and tested by<br>ive anything by mouth to an<br>ng unless directed to do so by |
| In Ca<br>In Ca<br>In Ca<br>In Ca<br>In Ca<br>Unsu<br>Media<br>2 Flam<br>Haza<br>Flash<br>Explo  | se of Skin Contact:<br>se of Eye Contact:<br>se of Ingestion:<br>ble Extinguishing<br>a:<br>itable Extinguishing<br>a:<br>mable Properties an<br>rds:<br>Pt: | personnel.<br>Get immediate medical atter<br>Immediately wash skin with s<br>clothing. Get medical attention<br>Flush eyes with plenty of war<br>medical personnel.<br>Wash out mouth with water p<br>unconscious person. Get me<br>medical personnel.<br><b>Section 5. Fire</b><br>Use alcohol-resistant foam,<br>Use water spray to cool fire-<br>A solid water stream may be<br>d No data available.<br>No data. | ntion.<br>soap and plenty of w<br>on if symptoms occu<br>ter for at least 15 m<br>provided person is c<br>edical attention. Do l<br><b>e Fighting Me</b><br>carbon dioxide, wat<br>exposed containers<br>e inefficient. | vater for at least 15<br>ur. Wash clothing b<br>inutes. Have eyes<br>conscious. Never g<br>NOT induce vomiti<br>easures<br>er, or dry chemical | i minutes. Remove contaminate<br>before reuse.<br>examined and tested by<br>ive anything by mouth to an<br>ng unless directed to do so by |



|  |   |   | Section 6. A   | ccidental Releas   | e Measures                        |                      |  |  |
|--|---|---|--|--|-----------------------------------|----------------------|--|--|
| 6.1  | Protect   | ive Precautions,  | Avoid raising and b  | reathing dust, and provide   | e adequate ventilation.           |                      |  |  |
|  | Protective Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or resp             |   |  |  |                                   |                      |  |  |
| Emergency Procedures: and appropriate personal protection (rubber boots, safety goggles, and heavy |   |   |  |  |                                   |                      |  |  |
| <b>Environmental</b> Take steps to avoid release into the environment, if safe to do so.           |   |   |  |  |                                   |                      |  |  |
| Precautions:   |   |   |  |  |                                   |                      |  |  |
| 6.3 Methods and Material For Contain spill and collect, as appropriate.                            |   |   |  |  |                                   |                      |  |  |
|  | Contair   | nment and Clean   | ingTransfer to a chemi   | cal waste container for di   | sposal in accordance with local   | regulations.         |  |  |
|  | •   |   |  | emoval, flush contaminated area and all cleaning materials with a 10% bleach aqueous   |                                   |                      |  |  |
|  |   |   | solution.  |  |                                   |                      |  |  |
|  |   |   | Section 7  | . Handling and   | Storage                           |                      |  |  |
| 7.1  | Precau  | tions To Be Take  | <b>n</b> Avoid breathing dus   | t/fume/gas/mist/vapours/s  | spray.                            |                      |  |  |
|  | in Hanc   | lling:  | Avoid prolonged or   | repeated exposure.   |                                   |                      |  |  |
| 7.2  | Precau  | tions To Be Take  | n Keep container tight   | tly closed.  |                                   |                      |  |  |
|  | in Stori  |   |  | with information listed or   | n the product insert.             |                      |  |  |
|  |   | Sec   | tion 8 Expos   | ure Controls/Per   | sonal Protection                  |                      |  |  |
| 3.1  | Fynosu  | re Parameters:  |  |  | 301101 1010011011                 |                      |  |  |
| CAS  |   | Partial Chemica   | al Name  | Britain EH40   | France VL                         | Europe               |  |  |
| NA   |   | Human Protein   | S  | No data.   | No data.                          | No data.             |  |  |
| 764  | 7-14-5  | Sodium Chloride   |  | No data.   | No data.                          | No data.             |  |  |
| 77   | 7-86-1  | Tris  |  | TWA: 5.0 mg/m3   | TWA: 5 mg/m3                      | No data.             |  |  |
| 2067   | 52-36-5   | Benzamidine   |  | No data.   | No data.                          | No data.             |  |  |
| CAS  | #   | Partial Chemica   | al Name  | OSHA TWA   | ACGIH TWA                         | Other Limits         |  |  |
| NA   |   | Human Protein   | S  | No data.   | No data.                          | No data.             |  |  |
|  |   | Sodium Chloride   | 3  | No data.   | No data.                          | No data.             |  |  |
| 764  | 7-14-5  | Tris  |  |  |                                   |                      |  |  |
| -  | 7-14-5<br>7-86-1  | _   |  | TWA: 5 mg/m3   | CEIL: 5 mg/m3 (salts)             | No data.             |  |  |
| 77   | -   | _   |  |  |                                   |                      |  |  |
| 77<br>2067:  | 7-86-1<br>52-36-5   | Tris<br>Benzamidine   |  | TWA: 5 mg/m3<br>No data.   | CEIL: 5 mg/m3 (salts)<br>No data. | No data.<br>No data. |  |  |
| 77<br>2067:<br><b>3.2</b>  | 7-86-1<br>52-36-5<br><b>Exposu</b>  | Tris<br>Benzamidine<br>re Controls:   | lise process enclos  | No data.   | No data.                          | No data.             |  |  |
| 77<br>2067:<br><b>3.2</b>  | 7-86-1<br>52-36-5<br>Exposu<br>Engine   | Tris<br>Benzamidine<br>re Controls:<br>ering Controls   | -  | No data.<br>ures, local exhaust ventila  |                                   | No data.             |  |  |
| 77<br>2067<br>3.2<br>3.2.1   | 7-86-1<br>52-36-5<br>Exposu<br>Engine<br>(Ventila   | Tris<br>Benzamidine<br>re Controls:<br>ering Controls<br>ation etc.):   | levels below recomm  | No data.   | No data.                          | No data.             |  |  |
| 77<br>2067<br>3.2<br>3.2.1   | 7-86-1<br>52-36-5<br>Exposu<br>Engine<br>(Ventila<br>Person   | Tris<br>Benzamidine<br>re Controls:<br>ering Controls<br>ation etc.):<br>al protection equ  | levels below recomr<br>uipment:  | No data.<br>ures, local exhaust ventila  | No data.                          | No data.             |  |  |
| 77<br>2067<br>3.2<br>3.2.1   | 7-86-1<br>52-36-5<br>Exposu<br>Engine<br>(Ventila<br>Person<br>Eye Pro  | Tris<br>Benzamidine<br>re Controls:<br>ering Controls<br>ation etc.):<br>al protection equiptection:  | levels below recomr<br><b>uipment:</b><br>Safety glasses   | No data.<br>ures, local exhaust ventila<br>nended exposure limits.   | No data.                          | No data.             |  |  |
| 77<br>2067<br>3.2<br>3.2.1   | 7-86-1<br>52-36-5<br>Engine<br>(Ventila<br>Person<br>Eye Pro<br>Protect   | Tris<br>Benzamidine<br>re Controls:<br>ering Controls<br>ation etc.):<br>al protection equ<br>otection:<br>ive Gloves:  | levels below recomr<br><b>upment:</b><br>Safety glasses<br>Compatible chemica  | No data.<br>ures, local exhaust ventila<br>nended exposure limits.   | No data.                          | No data.             |  |  |
| 77<br>2067<br>3.2<br>3.2.1   | 7-86-1<br>52-36-5<br>Exposu<br>Engine<br>(Ventila<br>Person<br>Eye Pro<br>Protect<br>Other P                                  | Tris<br>Benzamidine<br>re Controls:<br>ering Controls<br>ation etc.):<br>al protection equ<br>otection:<br>ive Gloves:<br>Protective Clothir  | levels below recomr<br><b>upment:</b><br>Safety glasses<br>Compatible chemica<br><b>ng:</b> Lab coat   | No data.<br>ures, local exhaust ventila<br>mended exposure limits.<br>al-resistant gloves  | No data.                          | No data.             |  |  |
| 77<br>2067<br>3.2<br>3.2.1   | 7-86-1<br>52-36-5<br>Exposu<br>Engine<br>(Ventila<br>Person<br>Eye Pro<br>Protect<br>Other P<br>Respira                       | Tris<br>Benzamidine<br>re Controls:<br>ering Controls<br>ation etc.):<br>al protection equ<br>otection:<br>ive Gloves:<br>Protective Clothir<br>atory Equipment                                 | levels below recomr<br><b>upment:</b><br>Safety glasses<br>Compatible chemica<br><b>ng:</b> Lab coat   | No data.<br>ures, local exhaust ventila<br>nended exposure limits.   | No data.                          | No data.             |  |  |
| 77<br>2067<br>8.2<br>8.2.1   | 7-86-1<br>52-36-5<br>Exposu<br>Engine<br>(Ventila<br>Person<br>Eye Pro<br>Protect<br>Other P<br>Respira<br>(Specify           | Tris<br>Benzamidine<br>re Controls:<br>ering Controls<br>ation etc.):<br>al protection equiptection:<br>ive Gloves:<br>Protective Clothir<br>atory Equipment<br>y Type):                        | levels below recomm<br><b>Jipment:</b><br>Safety glasses<br>Compatible chemicang:<br>Lab coat<br>NIOSH approved re                           | No data.<br>ures, local exhaust ventila<br>mended exposure limits.<br>al-resistant gloves<br>spirator, as conditions wa  | No data.                          | No data.             |  |  |
| 77<br>2067<br>8.2<br>8.2.1   | 7-86-1<br>52-36-5<br>Exposu<br>Engine<br>(Ventila<br>Person<br>Eye Pro<br>Protect<br>Other P<br>Respira<br>(Specifi<br>Work/H | Tris<br>Benzamidine<br>re Controls:<br>ering Controls<br>ation etc.):<br>al protection equ<br>otection:<br>ive Gloves:<br>Protective Clothir<br>atory Equipment<br>y Type):<br>ygienic/Maintena | levels below recomm<br><b>upment:</b><br>Safety glasses<br>Compatible chemica<br>ng:Lab coat<br>NIOSH approved re<br>an Do not take internal | No data.<br>ures, local exhaust ventila<br>mended exposure limits.<br>al-resistant gloves<br>spirator, as conditions wa  | No data.                          | No data.             |  |  |
| 77   | 7-86-1<br>52-36-5<br>Exposu<br>Engine<br>(Ventila<br>Person<br>Eye Pro<br>Protect<br>Other P<br>Respira<br>(Specify           | Tris<br>Benzamidine<br>re Controls:<br>ering Controls<br>ation etc.):<br>al protection equ<br>otection:<br>ive Gloves:<br>Protective Clothir<br>atory Equipment<br>y Type):<br>ygienic/Maintena | levels below recomm<br><b>upment:</b><br>Safety glasses<br>Compatible chemica<br>ng:Lab coat<br>NIOSH approved re<br>an Do not take internal | No data.<br>ures, local exhaust ventila<br>mended exposure limits.<br>al-resistant gloves<br>spirator, as conditions wa<br>ly.<br>utilizing this material shou | No data.                          | No data.             |  |  |



|       |                 | Sec                      | tion 9. Pl        | nysical and Che           | emical Pr       | operties       |         |      |  |  |
|-------|-----------------|--------------------------|-------------------|---------------------------|-----------------|----------------|---------|------|--|--|
| .1    | Informat        | ion on Basic Physica     | I and Chemic      | al 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        | :                        | No data.          |                           |                 |                |         |      |  |  |
|       | Evapora         | ation Rate:              | No data.          |                           |                 |                |         |      |  |  |
|       | Explosiv        | cplosive Limits:         |                   | data.                     | UEL: No data.   |                |         |      |  |  |
|       | Vapor P         | ressure (vs. Air or m    | m No data.        |                           |                 |                |         |      |  |  |
|       | Hg):            |                          |                   |                           |                 |                |         |      |  |  |
|       | Vapor D         | ensity (vs. Air = 1):    | No data.          |                           |                 |                |         |      |  |  |
|       | Specific        | Gravity (Water =         | 1): No data.      |                           |                 |                |         |      |  |  |
|       | Solubilit       | ty in Water:             | No data.          |                           |                 |                |         |      |  |  |
|       | Autoign         | ition Pt:                | No data.          |                           |                 |                |         |      |  |  |
| .2    | Other Inf       | formation                |                   |                           |                 |                |         |      |  |  |
|       | Percent         | Volatile:                | No data.          |                           |                 |                |         |      |  |  |
|       |                 |                          | Section           | 10. Stability an          | d Reactiv       | vity           |         |      |  |  |
| 0.1   | Reactivi        | i <b>ty:</b> No          | o data available  | 9.                        |                 |                |         |      |  |  |
| 0.2   | Stability       | v: Un                    | stable [ ]        | Stable [ X ]              |                 |                |         |      |  |  |
| 0.3   | Stability       | v Note(s): Sta           | able if stored in | n accordance with inforr  | nation listed o | on the product | insert. |      |  |  |
|       | Polymer         | rization: Wi             | ill occur [ ]     | Will not occur [ X ]      |                 |                |         |      |  |  |
| 0.4   | Conditio        | ons To Avoid: No         | o data available  | 9.                        |                 |                |         |      |  |  |
| 0.5   | Incompa         | atibility - Materials No | o data available  | 9.                        |                 |                |         |      |  |  |
|       | To Avoi         | d:                       |                   |                           |                 |                |         |      |  |  |
| 0.6   | Hazardo         | ous No                   | o data available  | 9.                        |                 |                |         |      |  |  |
|       | Decomp          | osition Or               |                   |                           |                 |                |         |      |  |  |
|       | Byprodu         | ucts:                    |                   |                           |                 |                |         |      |  |  |
|       |                 |                          | Section 1         | 1. Toxicologica           | l Informa       | ation          |         |      |  |  |
| 1.1   | Informat        | tion on Th               | e toxicological   | effects of this product h | nave not beer   | thoroughly st  | udied.  |      |  |  |
|       | Toxicolo        | ogical Effects:          |                   |                           |                 |                |         |      |  |  |
| CAS # | ŧ               | Hazardous Compor         | nents (Chemic     | al Name)                  | NTP             | IARC           | ACGIH   | OSHA |  |  |
| IA    |                 | Human Protein S          |                   | -                         | n.a.            | n.a.           | n.a.    | n.a. |  |  |
|       |                 | Sodium Chloride          |                   |                           | n.a.            | n.a.           | n.a.    | n.a. |  |  |
| 764   | 7-14-5          |                          |                   |                           |                 |                |         |      |  |  |
|       | 7-14-5<br>·86-1 | 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.<br>Runoff from fire control or dilution water may cause pollution. |  |  |  |
| 12.2         | Persistence and                              | No data available.   |  |  |  |
| 12.3         | Degradability:<br>Bioaccumulative            | No data available.   |  |  |  |
| 12.0         | Potential:                                   |  |  |  |  |
| 12.4<br>12.5 | Mobility in Soil:<br>Results of PBT and vPvB | No data available.<br>No data available.   |  |  |  |
|              | assessment:                                  |  |  |  |  |
| 12.6         | Other adverse effects:                       | No data available  |  |  |  |



| Section 13. Disposal Considerations  |  |  |                                       |                  |               |  |  |  |
|--|--|--|---------------------------------------|------------------|---------------|--|--|--|
| 13.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.          |  |  |                                       |                  |               |  |  |  |
| Section 14. Transport Information  |  |  |                                       |                  |               |  |  |  |
| 14.1 LAND TRANSPORT (US DOT):  |  |  |                                       |                  |               |  |  |  |
| DOT Proper Shipping Name: Not dangerous goods.   |  |  |                                       |                  |               |  |  |  |
| DOT Hazard Class:  |  |  |                                       |                  |               |  |  |  |
| UN/NA Number:  |  |  |                                       |                  |               |  |  |  |
| 14.1 LAND TRANSPORT (European ADR/RID):  |  |  |                                       |                  |               |  |  |  |
|  | hipping Name:  | Not dangerous goods.   |                                       |                  |               |  |  |  |
| UN Numbe   |  |  |                                       |                  |               |  |  |  |
| Hazard Cla   |  |  |                                       |                  |               |  |  |  |
|  | ANSPORT (ICAO/<br>Shipping Name:   | Not dangerous goods.   |                                       |                  |               |  |  |  |
| Additional Trai  |  | Transport in accordance with lo  | cal state and foderal                 | rogulations      |               |  |  |  |
| Information:   | isport   | Transport in accordance with lot                                       | cal, state, and leveral               | regulations.     |               |  |  |  |
|  |  | Section 15 Degul   | aton Informat                         | lion             |               |  |  |  |
|  |  | Section 15. Regul  | •                                     | lion             |               |  |  |  |
| •  | -  | nents and Reauthorization Act of                                       | -                                     |                  |               |  |  |  |
| CAS #  |  | ponents (Chemical Name)  | S. 302 (EHS)                          | S. 304 RQ        | S. 313 (TRI)  |  |  |  |
| NA   | Human Protein S  |  | No                                    | No               | No            |  |  |  |
| 7647-14-5  | Sodium Chloride  |  | No                                    | No               | No            |  |  |  |
| 77-86-1  | Tris   |  | No                                    | No               | Yes-Cat. N106 |  |  |  |
| 206752-36-5  | Benzamidine  |  | No                                    | No               | No            |  |  |  |
| CAS #  | Hazardous Com  | ponents (Chemical Name)  | Other US EPA or S                     | State Lists      |               |  |  |  |
| NA   | Human Protein S  |  | CAA HAP,ODC: No;<br>Inventory; CA PRO |                  | SCA: Yes -    |  |  |  |
| 7647-14-5  | Sodium chloride  |  | CAA HAP,ODC: No;<br>PROP.65: No       | CWA NPDES: No; T | SCA: No; CA   |  |  |  |
| 77-86-1  | Tris   |  | CAA HAP,ODC: No;<br>PROP.65: No       | CWA NPDES: No; T | SCA: No; CA   |  |  |  |
| 206752-36-5  | 206752-36-5 Benzamidine CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No |  |                                       |                  |               |  |  |  |
| Regulatory Information   This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) |  |  |                                       |                  |               |  |  |  |
| Statement: No.1272/2008.   |  |  |                                       |                  |               |  |  |  |
| Section 16. Other Information  |  |  |                                       |                  |               |  |  |  |
| Additional Info  | rmation About  | No data available.   |                                       |                  |               |  |  |  |
| This Product:  |  |  |                                       |                  |               |  |  |  |
| Company Polic  | y or Disclaimer: I   | DISCLAIMER: This information is  |                                       | -                |               |  |  |  |
|  |  | currently available to us. However<br>express or implied, with respect |                                       | -                |               |  |  |  |
|  |  | use. Users should make their ow  |                                       |                  |               |  |  |  |
|  | their particular purposes.   |  |                                       |                  |               |  |  |  |
|  |  |  |                                       |                  |               |  |  |  |