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## Material Safety Data Sheet

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 Identification of the Substance

|                |                                         |
|----------------|-----------------------------------------|
| Catalog Number | FEK0484                                 |
| Product Name   | Human PDGF-AB PicoKine® Quick ELISA Kit |

Components: 96-well plate, Standard(contains Sodium azide), Sample diluent buffer(contains Sodium azide), Biotinylated detection antibody (contains Sodium azide), Antibody diluent buffer(contains Sodium azide), ABC(contains Sodium azide), ABC diluent buffer(contains Sodium azide), Color developing agent, Stop solution (contains Sulphuric acid).

#### 1.2 Application of the substance or mixture

For research use only.

#### 1.3 Company Identification

Boster Biological Technology Co., Ltd.

3942 B Valley Ave, Pleasanton, CA, 94566, USA.

Fone: (888) 466-3604 Fax: (925) 215-2184

### 2. HAZARDS IDENTIFICATION

**Classification** : Regulation (EC) No. 1272/2008 [CLP/GHS]

**Stop Solution contains Sulfuric Acid** : Skin Irrit. Class 2

**Signal Word** : WARNING

**Hazard statements** : Causes irritation and serious eye irritation.

**Precautionary statements** : Wash hands thoroughly after handling. Wear protective gloves, clothing and eye and face protection.

**Response:**

IF ON SKIN (or hair): Immediately remove contaminated clothing and wash before re-use. Wash skin immediately with soap

and water. Get medical attention if irritation persists after washing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. If eye irritation persists, get medical attention.

IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth.

**Classification according to Directive 67/548/EEC** : Irritating to eyes and skin.

**Hazard Symbol / R-Phrase / S-Phrase** : Xi, Irritant / R36/38, Irritating to eyes and skin. / S26, In case of contact with eyes, rinse immediately with plenty of water and see medical advice.

**Other hazards** : none

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

| Chemical Name | EC-No     | CAS-No     | Concentration % | Classification (67/548)        | Classification                                                                                          |
|---------------|-----------|------------|-----------------|--------------------------------|---------------------------------------------------------------------------------------------------------|
| Sodium azide  | 247-852-1 | 26628-22-8 | 0.02            | T+; R27/28<br>R32<br>N; R50/53 | Acute Tox.2 (H300)<br>Acute Tox.1(H310)<br>Aquatic Acute 1(H400)<br>Aquatic Chronic 1(H410)<br>(EUH032) |

| Chemical Name  | EC-No     | CAS-No    | Concentration % | Classification (67/548) | Classification       |
|----------------|-----------|-----------|-----------------|-------------------------|----------------------|
| Sulphuric acid | 231-639-5 | 7664-93-9 | 2               | C; R35                  | Skin Corr. 1A (H314) |

### 4. FIRST AID MEASURES

|  |  |
|--|--|
|  |  |
|--|--|

|                           |                                                                                                                 |
|---------------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>Skin contact</b>       | Wash off immediately with soap and plenty of water.                                                             |
| <b>Eye contact</b>        | Rinse immediately with plenty of water. Consult a physician.                                                    |
| <b>Ingestion</b>          | Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.             |
| <b>Inhalation</b>         | If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| <b>Notes to physician</b> | Treat symptomatically.                                                                                          |

## 5. FIRE FIGHTING MEASURES

|                                                              |                                                                          |
|--------------------------------------------------------------|--------------------------------------------------------------------------|
| <b>Flammable properties</b>                                  | Not flammable.                                                           |
| <b>Flash point</b>                                           | Not available                                                            |
| <b>Suitable extinguishing media</b>                          | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| <b>Sensitivity to Mechanical Impact</b>                      | None.                                                                    |
| <b>Sensitivity to Static Discharge</b>                       | None.                                                                    |
| <b>Protective equipment for firefighters</b>                 | Wear self-contained breathing apparatus and protective suit.             |
| <b>Special hazards arising from the substance or mixture</b> | Nature of decomposition products not known.                              |

## 6. ACCIDENTAL RELEASE MEASURES

|                                  |                                  |
|----------------------------------|----------------------------------|
| <b>Personal precautions</b>      | Ensure adequate ventilation.     |
| <b>Environmental precautions</b> | Do not let product enter drains. |
|                                  |                                  |

|                                                              |                                                   |
|--------------------------------------------------------------|---------------------------------------------------|
| <b>Methods and materials for containment and cleaning up</b> | Keep in suitable, closed containers for disposal. |
| <b>Reference to other sections</b>                           | For disposal see section 13.                      |

## 7. HANDLING AND STORAGE

|                 |                                                                        |
|-----------------|------------------------------------------------------------------------|
| <b>Handling</b> | Handle in accordance with good industrial hygiene and safety practice. |
| <b>Storage</b>  | Store according to product specifications.                             |

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Exposure Guidelines

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

| <b>Chemical Name</b>        | <b>ACGIH TLV</b>                                | <b>OSHA PEL</b>                                                    | <b>NIOSH IDLH</b>                                          |
|-----------------------------|-------------------------------------------------|--------------------------------------------------------------------|------------------------------------------------------------|
| Sulphuric acid<br>7664-93-9 | TWA: 0.2 mg/m <sup>3</sup><br>thoracic fraction | TWA: 1 mg/m <sup>3</sup><br><br>(vacated) TWA: 1 mg/m <sup>3</sup> | IDLH: 15 mg/m <sup>3</sup><br><br>TWA: 1 mg/m <sup>3</sup> |

NIOSH IDLH: Immediately Dangerous to Life or Health

### Other Exposure Guidelines

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

### 8.2 Appropriate engineering controls

Follow general industrial hygiene and safety practice.

### Personal protective equipment

|                               |                                                                         |
|-------------------------------|-------------------------------------------------------------------------|
| <b>Respiratory protection</b> | In case of insufficient ventilation wear suitable respiratory equipment |
| <b>Hand protection</b>        | Impervious gloves                                                       |
| <b>Eye protection</b>         | Safety glasses with side-shields                                        |
|                               |                                                                         |

**Environmental exposure controls**

Prevent product from entering drains

**9. PHYSICAL AND CHEMICAL PROPERTIES****Important Health Safety and Environment Information**

|                                                        |                   |
|--------------------------------------------------------|-------------------|
| <b>a) Appearance Form:</b>                             | no data available |
| <b>b) Odour</b>                                        | no data available |
| <b>c) Odour Threshold</b>                              | no data available |
| <b>d) pH</b>                                           | no data available |
| <b>e) Melting point/freezing point</b>                 | no data available |
| <b>f) Initial boiling point and boiling range</b>      | no data available |
| <b>g) Flash point</b>                                  | no data available |
| <b>h) Evaporation rate</b>                             | no data available |
| <b>i) Flammability (solid, gas)</b>                    | no data available |
| <b>j) Upper/lower flammability or explosive limits</b> | no data available |
| <b>k) Vapour pressure</b>                              | no data available |
| <b>l) Vapour density</b>                               | no data available |
| <b>m) Relative density</b>                             | no data available |
| <b>n) Water solubility</b>                             | no data available |
| <b>o) Partition coefficient: noctanol/water</b>        | no data available |
| <b>p) Auto-ignition temperature</b>                    | no data available |

|                                     |                   |
|-------------------------------------|-------------------|
| <b>q) Decomposition temperature</b> | no data available |
| <b>r) Viscosity</b>                 | no data available |
| <b>s) Explosive properties</b>      | no data available |
| <b>t) Oxidizing properties</b>      | no data available |

## 10. STABILITY AND REACTIVITY

|                                         |                                                           |
|-----------------------------------------|-----------------------------------------------------------|
| <b>Chemical Stability</b>               | Stable under recommended storage and handling conditions. |
| <b>Conditions to avoid</b>              | no data available                                         |
| <b>Incompatible materials</b>           | no data available                                         |
| <b>Hazardous decomposition products</b> | no data available                                         |
| <b>Hazardous polymerization</b>         | Hazardous polymerization does not occur.                  |

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

### Product Information

Product does not present an acute toxicity hazard based on known or supplied information.

### Chronic toxicity

### Carcinogenicity

This product contains one or more substances which are classified by IARC as carcinogenic to humans (Group I), probably carcinogenic to humans (Group 2A) or possibly carcinogenic to humans (Group 2B)

| <b>Chemical Name</b> | <b>ACGIH</b> | <b>IARC</b> | <b>NTP</b> | <b>OSHA</b> |
|----------------------|--------------|-------------|------------|-------------|
| Sulphuric acid       | A2           | Group 1     | Known      | X           |

### ACGIH: (American Conference of Governmental Industrial Hygienists)

A2 - Suspected Human Carcinogen

**IARC: (International Agency for Research on Cancer)**

Group 1 - Carcinogenic to Humans

**NTP: (National Toxicity Program)**

Known - Known Carcinogen

**OSHA: (Occupational Safety & Health Administration)**

X - Present

**Target Organ Effects** Eyes. Respiratory system. Skin. Teeth.

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

The environmental impact of this product has not been fully investigated.

| Chemical Name  | Toxicity to algae | Toxicity to fish                                   | Toxicity to microorganisms | Toxicity to daphnia and other aquatic invertebrates |
|----------------|-------------------|----------------------------------------------------|----------------------------|-----------------------------------------------------|
| Sulphuric acid |                   | 500: 96 h<br>Brachydanio rerio<br>mg/L LC50 static |                            | 29: 24 h Daphnia magna<br>mg/L EC50                 |

**13. DISPOSAL CONSIDERATIONS**

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Disposal methods</b>       | This material, as supplied, is not a hazardous waste according to Federal regulations(40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Dispose of waste in accordance to applicable national, regional, or local regulations. |
| <b>Contaminated packaging</b> | Dispose of as unused product.                                                                                                                                                                                                                                                                                                                                                                                           |

**This product contains one or more substances that are listed with the State of California as a hazardous waste.**

| Chemical Name | California Hazardous Waste Status |
|---------------|-----------------------------------|
|---------------|-----------------------------------|

|                |                 |
|----------------|-----------------|
| Sulphuric acid | Toxic Corrosive |
|----------------|-----------------|

#### 14. TRANSPORT INFORMATION

|             |                     |
|-------------|---------------------|
| <b>DOT</b>  | Not dangerous goods |
| <b>ADR</b>  | Not dangerous goods |
| <b>IATA</b> | Not dangerous goods |

#### 15. REGULATORY INFORMATION

##### US Federal and State Regulations

##### SARA 313 Components :

This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

| Chemical Name  | CAS-No    | Concentration % | SARA 313-Threshold Values % |
|----------------|-----------|-----------------|-----------------------------|
| Sulphuric acid | 7664-93-9 | 2               | 1                           |

##### SARA 311/312 Hazards : Acute Health Hazard

##### Clean Water Act

This product does not contain any substances regulated as pollutants to the Clean Water Act(40 CFR 122.21 and 40 CFR 122.42)

| Chemical Name  | CWA-Reportable Quantities | CWA-Toxic Pollutants | CWA-Priority Pollutants | CWA-Hazardous Substances |
|----------------|---------------------------|----------------------|-------------------------|--------------------------|
| Sulphuric acid | 1000lb                    |                      |                         | X                        |

##### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Comprehension and Liability Act (CERCLA) (40 CFR 302) of the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

|  |  |  |  |
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|--|--|--|--|

| <b>Chemical Name</b> | <b>Hazardous Substances RQs</b> | <b>Extremely Hazardous Substances RQs</b> | <b>RQ</b>                               |
|----------------------|---------------------------------|-------------------------------------------|-----------------------------------------|
| Sulphuric acid       | 1000lb                          | 1000lb                                    | RQ 1000lb final RQ RQ<br>454kg final RQ |

**California Proposition 65 :**

This product contains the following Proposition 65 chemicals:

| <b>Chemical Name</b> | <b>CAS-No</b> | <b>California Prop.65</b> |
|----------------------|---------------|---------------------------|
| Sulphuric acid       | 7664-93-9     | Carcinogen                |

**16. OTHER INFORMATION**

The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since Boster Corporation cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein.