1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers
   
   Product name: PF-04217903
   Product Catalogue Number: 202221
   Band: MedKoo
   CAS-No: 956905-27-4

1.2 Relevant identified uses of the substance or mixture and uses advised against
   
   Identified uses: Laboratory chemicals, Synthesis of substances.

1.3 Details of the supplier of the safety data sheet
   
   Company: MedKoo Biosciences, Inc.
   180 Providence Road, Suite#4, Chapel Hill, NC 27514, USA
   Telephone: 919-636-5577
   Fax: 919-980-4831

1.4 Emergency telephone number
   
   Emergency Phone #: 911 (in USA) or local emergency phone#

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

   GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
   
   Skin irritation (Category 2), H315
   Serious eye damage (Category 1), H318
   Respiratory sensitisation (Category 1), H334
   Skin sensitisation (Category 1), H317
   Germ cell mutagenicity (Category 2), H341
   Reproductive toxicity (Category 2), H361
   Specific target organ toxicity - single exposure (Category 1), H370
   Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335
   Chronic aquatic toxicity (Category 4), H413

   For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

   Pictogram:

   Signal word: Danger
   Hazard statement(s)
   
   H315: Causes skin irritation.
   H317: May cause an allergic skin reaction
   H318: Causes serious eye damage.
   H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
   H335: May cause respiratory irritation.
   H341: Suspected of causing genetic defects.
   H361: Suspected of damaging fertility or the unborn child.
   H370: Causes damage to organs.
   H413: May cause long lasting harmful effects to aquatic life.
Precautionary statement(s)

P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P260: Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
P264: Wash skin thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P271: Use only outdoors or in a well-ventilated area.
P272: Contaminated work clothing should not be allowed out of the workplace.
P273: Avoid release to the environment.
P280: Wear protective gloves/ eye protection/ face protection.
P302 + P352: IF ON SKIN: Wash with plenty of soap and water.
P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310: Immediately call a POISON CENTER/doctor.
P311: Specific treatment (see supplemental first aid instructions on this label).
P333 + P313: If skin irritation or rash occurs: Get medical advice/ attention.
P362: Take off contaminated clothing and wash before reuse.
P403 + P233: Store in a well-ventilated place. Keep container tightly closed.
P405: Store locked up.
P501: Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms: PF04217903; PF 04217903; PF4217903; PF-4217903; PF-04217903; PF-4217903.

Formula: C19H16N8O

Molecular weight: 372.38

CAS-No: 956905-27-4

Hazardous components

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>PF-04217903</td>
<td>Skin Irrit. 2; Eye Dam. 1; Resp. Sens. 1; Skin Sens. 1; Muta. 2; Repr. 2; STOT SE 3; Aquatic Chronic 4; H315, H317, H318, H334, H335, H341, H361, H413</td>
<td>&lt;= 100 %</td>
</tr>
</tbody>
</table>

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
5. FIREFIGHTING MEASURES

5.1 Extinguishing media
Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
No data available

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.
Recommended storage temperature: 2 - 8 °C for short term (weeks to 3 months) or -20°C for long term (3 months to years).
Keep in a dry place.

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters
Components with workplace control parameters

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Value</th>
<th>Control parameters</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>PF-04217903</td>
<td>956905-27-4</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>
8.2 Exposure controls

**Appropriate engineering controls**
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**Personal protective equipment**

**Eye/face protection**
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection**
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Full contact**
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

**Splash contact**
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

**Data source**
KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374. If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

**Body Protection**
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection**
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure**
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) Appearance Form:</td>
<td>Color: white to off-white</td>
</tr>
<tr>
<td></td>
<td>Form: Solid powder</td>
</tr>
<tr>
<td>b) Odour</td>
<td>No data available</td>
</tr>
<tr>
<td>c) Odour Threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>d) pH</td>
<td>No data available</td>
</tr>
<tr>
<td>e) Melting point/freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>f) Initial boiling point and</td>
<td>No data available</td>
</tr>
</tbody>
</table>
boiling range

- Flash point: No data available
- Evaporation rate: No data available
- Flammability (solid, gas): No data available
- Upper/lower flammability or explosive limits: No data available
- Vapour pressure: No data available
- Vapour density: No data available
- Relative density: No data available
- Water solubility: Insoluble
- Partition coefficient: noctanol/water: log Pow: > 99
- Auto-ignition temperature: No data available
- Decomposition temperature: No data available
- Viscosity: No data available
- Explosive properties: No data available
- Oxidizing properties: No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity: No data available

10.2 Chemical stability: Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions: No data available

10.4 Conditions to avoid: No data available

10.5 Incompatible materials: No data available

10.6 Hazardous decomposition products
- Hazardous decomposition products formed under fire conditions: Carbon oxides, Nitrogen oxides (NOx)
- Other decomposition products: No data available
- In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

**Acute toxicity**
- No data available

Inhalation:
- No data available

Dermal
- Irritating to respiratory system.

**Skin corrosion/irritation:** No data available
**Serious eye damage/eye irritation:** No data available

**Respiratory or skin sensitisation**
- Germ cell mutagenicity: No data available
- Hamster: No data available
- Lungs: No data available
- Cytogenetic analysis: No data available
- Mouse: No data available
- Micronucleus test: No data available
Carcinogenicity
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
Reproductive toxicity - Rat - No data available
Maternal Effects: No data available
Reproductive toxicity - Rat - No data available
Effects on Newborn: No data available
Developmental Toxicity - Rat - No data available
Specific Developmental Abnormalities: No data available

Specific target organ toxicity - single exposure Inhalation - May cause respiratory irritation.
Specific target organ toxicity - repeated exposure: No data available

Aspiration hazard: No data available

Additional Information
RTECS: DA8340700
Alopecia, Liver injury may occur, Kidney injury may occur, Nausea, Headache, Vomiting, bone marrow depression
Stomach - Irregularities - No data available
Central nervous system - No data available
Kidney - Irregularities - No data available
Heart - Irregularities - No data available
Stomach - Irregularities - No data available
Stomach - Irregularities - No data available
Kidney - Irregularities - No data available
Stomach - Irregularities - No data available

12. ECOLOGICAL INFORMATION

12.1 Toxicity: No data available
12.2 Persistence and degradability: No data available
12.3 Bioaccumulative potential: No data available
12.4 Mobility in soil: No data available
12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
12.6 Other adverse effects: No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
14. TRANSPORT INFORMATION

DOT (US): Not dangerous goods
IMDG: Not dangerous goods
IATA: Not dangerous goods

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 313.

SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components
<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Revision data</th>
</tr>
</thead>
<tbody>
<tr>
<td>PF-04217903</td>
<td>956905-27-4</td>
<td>N/A</td>
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Pennsylvania Right To Know Components
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New Jersey Right To Know Components
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<tr>
<th>Components</th>
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California Prop. 65 Components
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<th>Revision data</th>
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</thead>
<tbody>
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<td>PF-04217903</td>
<td>956905-27-4</td>
<td>N/A</td>
</tr>
</tbody>
</table>

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.                                             Acute toxicity
Aquatic Chronic                                       Chronic aquatic toxicity
Eye Dam.                                              Serious eye damage
Eye Irrit.                                             Eye irritation
Flam. Liq.                                             Flammable liquids
H225                                                  Highly flammable liquid and vapour.
H301 + H311 + H331                                     Toxic if swallowed, in contact with skin or if inhaled
H315                                                  Causes skin irritation.
H317                                                  May cause an allergic skin reaction.
H318                                                  Causes serious eye damage.
H319                                                  Causes serious eye irritation.
H334                                                  May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335                                                  May cause respiratory irritation.
<table>
<thead>
<tr>
<th>HMIS Rating</th>
<th>NFPA Rating</th>
<th>Further information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health hazard: 2</td>
<td>Health hazard: 2</td>
<td>Copyright: MedKoo Biosciences. License granted to make unlimited paper copies for</td>
</tr>
<tr>
<td>Chronic Health Hazard: *</td>
<td>Fire Hazard: 0</td>
<td>internal use only. The above information is believed to be correct but does not</td>
</tr>
<tr>
<td>Flammability: 0</td>
<td>Reactivity Hazard: 0</td>
<td>purport to be all inclusive and shall be used only as a guide. The information in</td>
</tr>
<tr>
<td>Physical Hazard 0</td>
<td></td>
<td>this document is based on the present state of our knowledge and is applicable to</td>
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<td></td>
<td></td>
<td>the product with regard to appropriate safety precautions. It does not represent</td>
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<tr>
<td></td>
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<td>any guarantee of the properties of the product. MedKoo Biosciences and its Affiliates</td>
</tr>
<tr>
<td></td>
<td></td>
<td>shall not be held liable for any damage resulting from handling or from contact with</td>
</tr>
<tr>
<td></td>
<td></td>
<td>the above product. See <a href="http://www.medkoo.com">www.medkoo.com</a> for additional terms and conditions of sale.</td>
</tr>
</tbody>
</table>

**Preparation Information**

MedKoo Bioscience, Inc.
Product Safety – multiple Region
Tel: 919-636-5577

---End of document----