

# SAFETY DATA SHEET

## Bio Grease

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

#### Identification of the substance or preparation

**Product name** : Bio Grease  
**Product type** : Solid.  
**Use of the substance/preparation** : Bicycle lubricant.

#### Company/undertaking identification

**Supplier/Manufacturer** : Pedro's Incorporated  
 600 Research Drive  
 Wilmington, Massachusetts 01887

**e-mail address of person responsible for this SDS** : msds@pedros.com

**Emergency telephone number (with hours of operation)** : CHEMTREC International: (703) 527-3887  
 24/7

### 2. HAZARDS IDENTIFICATION

The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.

**Classification** : Not classified.

See section 11 for more detailed information on health effects and symptoms.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance/preparation** : Preparation

Ingredient name	CAS number	%	EC number	Classification
<b>Europe/Luxembourg</b>				
Aluminum benzoate stearate	68815-27-0	10 - 30	272-365-6	Not classified. [2]
<b>Sweden</b>				
Aluminum benzoate stearate	68815-27-0	10-15	272-365-6	Not classified. [2]
<b>Denmark</b>				
Aluminum benzoate stearate	68815-27-0	10 - 30	272-365-6	Not classified. [2]
<b>Norway</b>				
Aluminum benzoate stearate	68815-27-0	10 - 30	272-365-6	Not classified. [2]
<b>France</b>				
Aluminum benzoate stearate	68815-27-0	10 - 30	272-365-6	Not classified. [2]
Calcium Carbonate	471-34-1	5 - 10	207-439-9	Not classified. [2]
<b>Finland</b>				
Aluminum benzoate stearate	68815-27-0	10-15	272-365-6	Not classified. [2]
Calcium Carbonate	471-34-1	5-10	207-439-9	Not classified. [2]
<b>United Kingdom (UK)</b>				
Aluminum benzoate stearate	68815-27-0	10 - 30	272-365-6	Not classified. [2]
Calcium Carbonate	471-34-1	5 - 10	207-439-9	Not classified. [2]
<b>Switzerland</b>				
Aluminum benzoate stearate	68815-27-0	10 - 30	272-365-6	Not classified. [2]
<b>Belgium</b>				
Biodegradable base oil	68956-68-3	60 - 100	273-313-5	Not classified. [2]
Aluminum benzoate stearate	68815-27-0	10 - 30	272-365-6	Not classified. [2]
<b>Spain</b>				
Biodegradable base oil	68956-68-3	60 - 100	273-313-5	Not classified. [2]
Aluminum benzoate stearate	68815-27-0	10 - 30	272-365-6	Not classified. [2]
Calcium Carbonate	471-34-1	5 - 10	207-439-9	Not classified. [2]

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<b>Italy</b>				
Aluminum benzoate stearate	68815-27-0	10 - 30	272-365-6	Not classified. [2]
<b>Estonia</b>				
Aluminum benzoate stearate	68815-27-0	10 - 30	272-365-6	Not classified. [2]
<b>Poland</b>				
Calcium Carbonate	471-34-1	5 - 10	207-439-9	Not classified. [2]
<b>Latvia</b>				
Calcium Carbonate	471-34-1	5 - 10	207-439-9	Not classified. [2]
<b>Greece</b>				
Aluminum benzoate stearate	68815-27-0	10 - 30	272-365-6	Not classified. [2]
<b>Portugal</b>				
Aluminum benzoate stearate	68815-27-0	10 - 30	272-365-6	Not classified. [2]

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.**

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

**Occupational exposure limits, if available, are listed in section 8.**

### 4. FIRST AID MEASURES

- Eye contact** : Check for and remove any contact lenses. In case of contact with eyes, rinse immediately with plenty of water. Obtain medical attention if symptoms occur.
- Skin contact** : Wash with soap and water. Obtain medical attention if symptoms occur.
- Inhalation** : If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms appear.
- Ingestion** : Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.
- Notes to physician** : No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**See section 11 for more detailed information on health effects and symptoms.**

### 5. FIRE-FIGHTING MEASURES

#### Extinguishing media

**Suitable** : In case of fire, use water spray (fog), foam, dry chemical or CO<sub>2</sub>.

**Not suitable** : None known.

**Special exposure hazards** : No specific fire or explosion hazard.

**Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
metal oxide/oxides  
Aldehyde.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment (see section 8).
- Environmental precautions** : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- Methods for cleaning up**
- Small spill** : Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.

## 7. HANDLING AND STORAGE

- Handling** : Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking.
- Storage** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.
- Packaging materials**
- Recommended** : Use original container.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure limit values

Ingredient name	Occupational exposure limits
<b>Europe/Luxembourg</b> Aluminum benzoate stearate	<b>ACGIH TLV (United States, 1/2008).</b> TWA: 10 mg/m <sup>3</sup> 8 hour(s).
<b>Sweden</b> Aluminum benzoate stearate	<b>AFS 2005:17 (Sweden, 6/2007).</b> TWA: 1 mg/m <sup>3</sup> , (Al) 8 hour(s). Form: Total dust
<b>Denmark</b> Aluminum benzoate stearate	<b>Arbejdstilsynet (Denmark, 3/2008).</b> TWA: 1 mg/m <sup>3</sup> , (Al) 8 hour(s).
<b>Norway</b> Aluminum benzoate stearate	<b>Arbejdstilsynet (Norway, 11/2007).</b> TWA: 2 mg/m <sup>3</sup> , (Al) 8 hour(s).
<b>France</b> Aluminum benzoate stearate Calcium Carbonate	<b>INRS (France, 12/2007).</b> TWA: 2 mg/m <sup>3</sup> 8 hour(s). <b>INRS (France, 12/2008).</b> TWA: 10 mg/m <sup>3</sup> 8 hour(s).
<b>Netherlands</b> No exposure limit value known.	
<b>Germany</b> No exposure limit value known.	
<b>Finland</b>	

Aluminum benzoate stearate	<b>Työterveyslaitos, Sosiaali- ja terveysministeriö (Finland, 8/2007).</b> TWA: 2 mg/m <sup>3</sup> , (Al) 8 hour(s).
Calcium Carbonate	<b>Työterveyslaitos, Sosiaali- ja terveysministeriö (Finland, 8/2007).</b> TWA: 10 mg/m <sup>3</sup> 8 hour(s).
<b>United Kingdom (UK)</b>	
Aluminum benzoate stearate	<b>EH40/2005 WELs (United Kingdom (UK), 8/2007).</b> TWA: 2 mg/m <sup>3</sup> 8 hour(s).
Calcium Carbonate	<b>EH40/2005 WELs (United Kingdom (UK), 8/2007).</b> TWA: 10 mg/m <sup>3</sup> 8 hour(s). Form: Inhalable dust. TWA: 4 mg/m <sup>3</sup> 8 hour(s). Form: Respirable dust
<b>Austria</b>	
No exposure limit value known.	
<b>Switzerland</b>	
Aluminum benzoate stearate	<b>SUVA (Switzerland, 1/2007).</b> TWA: 2 mg/m <sup>3</sup> 8 hour(s). Form: Inhalable dust.
<b>Belgium</b>	
Biodegradable base oil	<b>Lijst Grenswaarden / Valeurs Limites (Belgium, 6/2007).</b> TWA: 10 mg/m <sup>3</sup> 8 hour(s). Form: Mist
Aluminum benzoate stearate	<b>Lijst Grenswaarden / Valeurs Limites (Belgium, 6/2007).</b> TWA: 2 mg/m <sup>3</sup> , (Al) 8 hour(s).
<b>Spain</b>	
Biodegradable base oil	<b>INSHT (Spain, 1/2008).</b> TWA: 10 mg/m <sup>3</sup> 8 hour(s). Form: Mist
Aluminum benzoate stearate	<b>INSHT (Spain, 1/2008).</b> TWA: 2 mg/m <sup>3</sup> , (Al) 8 hour(s).
Calcium Carbonate	<b>INSHT (Spain, 12/2007).</b> TWA: 10 mg/m <sup>3</sup> 8 hour(s).
<b>Czech Republic</b>	
No exposure limit value known.	
<b>Italy</b>	
Aluminum benzoate stearate	<b>ACGIH TLV (United States, 1/2008).</b> TWA: 10 mg/m <sup>3</sup> 8 hour(s).
<b>Estonia</b>	
Aluminum benzoate stearate	<b>Sotsiaalminister (Estonia, 10/2007).</b> TWA: 2 mg/m <sup>3</sup> 8 hour(s).
<b>Poland</b>	
Calcium Carbonate	<b>Ministra Pracy i Polityki Społecznej (Poland, 9/2007).</b> TWA: 10 mg/m <sup>3</sup> 8 hour(s). Form: Dust
<b>Slovenia</b>	
No exposure limit value known.	
<b>Latvia</b>	
Calcium Carbonate	<b>LV Nat. Standardisation and Meterological Centre (Latvia, 5/2007).</b> TWA: 6 mg/m <sup>3</sup> 8 hour(s).
<b>Greece</b>	
Aluminum benzoate stearate	<b>PD 90/1999 (Greece, 8/2007).</b> TWA: 2 mg/m <sup>3</sup> , (as Al) 8 hour(s).
<b>Portugal</b>	
Aluminum benzoate stearate	<b>Instituto Português da Qualidade (Portugal, 3/2007).</b> TWA: 2 mg/m <sup>3</sup> , (expressed as Al) 8 hour(s).

**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

### Exposure controls

- Occupational exposure controls** : No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.
- Respiratory protection** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Eye protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.
- Skin protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.



- Hygiene measures** : Wash hands, forearms and face thoroughly after handling compounds and before eating, smoking and using the lavatory and at the end of the day. Follow good industrial hygiene practice.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

**Protection based on MAL : According to the regulations on work involving coded products, the following stipulations apply to the use of personal protective equipment:**

**General:** Gloves must be worn for all work that may result in soiling. Apron/coveralls/protective clothing must be worn when soiling is so great that regular work clothes do not adequately protect skin against contact with the product. A face shield must be worn in work involving spattering if a full mask is not required. In this case, other recommended use of eye protection is not required.

In all spraying operations in which there is return spray, the following must be worn: respiratory protection and arm protectors/apron/coveralls/protective clothing as appropriate or as instructed.

MAL-code: 00-1

**Application:** When spraying in existing\* spray booths, if the operator is outside the spray zone.

- Arm protectors must be worn.

During all spraying where atomisation occurs in cabins or spray booths where the operator is inside the spray zone and during spraying outside a closed facility, cabin or booth.

- Full mask with combined filter, coveralls and hood must be worn.

**Drying:** Items for drying/drying ovens that are temporarily placed on such things as rack trolleys, etc, must be equipped with a mechanical exhaust system to prevent fumes from wet items from passing through workers' inhalation zone.

**Polishing:** When polishing treated surfaces, a mask with dust filter must be worn. When machine grinding, eye protection must be worn. Work gloves must always be worn.

**Caution** The regulations contain other stipulations in addition to the above.

\*See Regulations.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### General information

#### Appearance

- Physical state** : Grease.  
**Colour** : Green.  
**Odour** : Mild.  
**Odour threshold** : Not available.

### Important health, safety and environmental information

- Flash point** : Open cup: >250°C (>482°F) [Cleveland.]  
**Vapour pressure** : <0.0067 kPa (<0.05 mm Hg) @ 300°C  
**Solubility** : Insoluble in water.

## 10. STABILITY AND REACTIVITY

- Stability** : The product is stable.  
**Conditions to avoid** : No specific data.  
**Materials to avoid** : Reactive or incompatible with the following materials: oxidizing materials.  
**Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 11. TOXICOLOGICAL INFORMATION

### Potential acute health effects

- Inhalation** : No known significant effects or critical hazards.  
**Ingestion** : No known significant effects or critical hazards.  
**Skin contact** : No known significant effects or critical hazards.  
**Eye contact** : No known significant effects or critical hazards.

### Potential chronic health effects

#### Reproductive toxicity

- Chronic effects** : No known significant effects or critical hazards.  
**Carcinogenicity** : No known significant effects or critical hazards.  
**Mutagenicity** : No known significant effects or critical hazards.  
**Teratogenicity** : No known significant effects or critical hazards.  
**Developmental effects** : No known significant effects or critical hazards.  
**Fertility effects** : No known significant effects or critical hazards.

### Over-exposure signs/symptoms

- Inhalation** : No specific data.  
**Ingestion** : No specific data.  
**Skin** : No specific data.  
**Eyes** : No specific data.

## 12. ECOLOGICAL INFORMATION

- Environmental effects** : Readily biodegradable

- Other adverse effects** : No known significant effects or critical hazards.

## 13. DISPOSAL CONSIDERATIONS

- Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.
- Hazardous waste** : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

## 14. TRANSPORT INFORMATION

### International transport regulations

- ADR/RID / IMDG / IATA Classes** : Not regulated by any transport mode.

## 15. REGULATORY INFORMATION

### EU regulations

**Classification and labeling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use.**

- Risk phrases** : Not classified as dangerous
- Safety phrases** : S2- Keep out of the reach of children.
- Product use** : Consumer applications, Industrial applications.
- Europe inventory** : All components are listed or exempted.

### Other EU regulations

- Additional warning phrases** : Safety data sheet available for professional user on request.

### National regulations

#### Denmark

- Risk phrases** : Not classified.
- Safety phrases** : S2- Keep out of the reach of children.
- Additional warning phrases** : Safety data sheet available for professional user on request.
- MAL-code** : 00-1

#### Norway

- Risk phrases** : Not classified.
- Safety phrases** : S2- Keep out of the reach of children.
- Carcinogenic class** : Not classified.

#### France

- Reinforced medical surveillance** : Act of July 11, 1977 determining the list of activities which require reinforced medical surveillance: Not applicable.

#### Germany

- Hazard class for water** : 3 Appendix No. 4
- Technical instruction on air quality control** : TA-Luft Number 5.2.1: 20-32%

#### Austria

- Limitation of the use of organic solvents** : Permitted.

#### Switzerland

- Poison class** : Not regulated
- BAG T** : 619000
- VOC content** : Liberated.

#### Italy

- Emission control directive** : 100% Not classified.

**16. OTHER INFORMATION****History****Date of issue** : 12/01/2008**Version** : 1**Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.