SAFETY DATA SHEET

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

Product Name: Gasil HP860
Wax coated amorphous silica

Use: Additive for use in a wide range of applications including paints and coatings. Matting agent.

Manufacturer/Supplier: PQ Corporation
111 Ingalls Avenue
Joliet
Illinois 60435
USA

Telephone: +1 815 727 3651
Fax: +1 815 727 9857

Emergency Phone No.: ChemTrec (800) 424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>%W/W</th>
<th>CAS No.</th>
<th>EINECS No.</th>
<th>EC Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Synthetic amorphous silica</td>
<td>&gt; 80 %</td>
<td>112926-00-8</td>
<td>2315454</td>
<td>Occupational Exposure Limits</td>
</tr>
<tr>
<td>Hydrocarbon wax</td>
<td>&lt; 15 %</td>
<td>7732-18-5</td>
<td>2317912</td>
<td></td>
</tr>
<tr>
<td>Water</td>
<td>&lt; 6 %</td>
<td>7732-18-5</td>
<td>2317912</td>
<td></td>
</tr>
</tbody>
</table>

3. HAZARDS IDENTIFICATION

EC Classification: Not classified as dangerous for supply/use.

Exposure to any kind of dust is potentially harmful. Dust clouds are flammable and may be explosive.

4. FIRST AID MEASURES

Eye Contact: If substance has got into the eyes, immediately wash out with plenty of water. Obtain immediate medical attention.

Skin Contact: Wash affected skin with plenty of water. If symptoms develop, obtain medical attention.

Ingestion: Do not induce vomiting. Wash out mouth with water. If large amount swallowed or symptoms develop, obtain medical attention.

Inhalation: Remove patient from exposure, keep warm and at rest. If symptoms develop, obtain medical attention.

5. FIRE-FIGHTING MEASURES

General: Ignites in contact with flame and supports combustion until the wax has burned off.
Extinguishing media
Extinguish with waterspray, foam or dry chemical.
Be aware of the possibility of re-ignition.
Cool the smouldering material with water spray to minimise the possibility of re-ignition.

Unsuitable Extinguishing Media
Carbon dioxide is unsuitable (creates dust).

6. ACCIDENTAL RELEASE MEASURES

Personal Protection
Wear suitable protective clothing. Wear eye/face protection.
An approved dust mask should be worn if dust is generated during handling.
See Also Section 8.

General:
Contain spillages. Dampening with water can reduce dust. Sweep or preferably vacuum up and collect in suitable containers for recovery or disposal.

7. HANDLING AND STORAGE

Handling
Avoid generation of dust.
See Also Section 8.
A considerable static electrical charge can be built up during mechanical handling which may become a hazard in atmospheres containing flammable vapours. Advice on the control of static is given in British Standard BS 5958. When handling in bulk, the possibility of dust explosion should be considered. If the risk is significant, mechanical handling equipment must be earthed and provided with explosion venting.

Storage
Keep container tightly closed and dry.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Synthetic amorphous silica
Silica amorphous, total inhalable dust: UK EH40: WEL 6 mg/m3 8h TWA.
Silica amorphous, respirable dust: UK EH40: WEL 2.4 mg/m3 8h TWA.
Silica, Amorphous - Precipitated silica and silica gel: ACGIH: TLV withdrawn 2006
Silica amorphous - Precipitated silica: OSHA: PEL 6mg/m3 8h TWA

General:
Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (dilution and local exhaust), and control of process conditions.

Respirators
Avoid inhalation of dusts. Wear suitable respiratory protective equipment if working in confined spaces with inadequate ventilation or where there is any risk of the exposure limits being exceeded. Advice on respiratory protective equipment is given in the HSE (Health and Safety Executive) publication HS(G)53.

Skin Contact
Wear suitable protective clothing and gloves. Plastic or rubber gloves. For example EN374-3. Wear suitable overalls.

Eye Protection
Safety spectacles. Goggles.

Other
Wear protective equipment to comply with good occupational hygiene practice.
Do not eat, drink or smoke at the work place.
9. PHYSICAL AND CHEMICAL PROPERTIES

Form
Powder.

Colour
White.

Odour
Odourless.

pH (Value)
3 - 10 at 5% w/w in water.

Flash Point (°C) [Closed cup]
Not applicable.

Flammable Limits (Lower) (%v/v)
Not applicable.

Explosive Properties
Minimum exploisible concentration 500 g/m³.

Solubility (Water)
Insoluble.

10. STABILITY AND REACTIVITY

Stability
Stable under normal conditions.

Hazardous Reactions
Take precautionary measures against static discharges. Avoid contact with: Strong oxidising agents.

Hazardous Decomposition
None known.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity
The lethal dose for humans for synthetic amorphous silica is estimated at over 15000 mg/kg. Synthetic amorphous silica is a permitted food additive in the UK, US and many other countries. Hydrocarbon wax compounds are generally of low toxicity.

Inhalation
Synthetic amorphous silica has little adverse effect on lungs and does not produce significant disease or toxic effect when exposure is kept below the permitted limits. However, existing medical conditions (e.g. asthma, bronchitis) may be aggravated by exposure to dust. Effects of dust may be greater, and occur at lower levels of exposure in smokers compared to non-smokers.

Eye Contact
Dust may cause discomfort and mild irritation.

Skin Contact
Dust may have a drying effect on the skin.

Carcinogenicity Information
IARC assessment: Amorphous silica is not classifiable as to its carcinogenicity to humans (Group 3).

12. ECOLOGICAL INFORMATION

Ecotoxicity
Synthetic amorphous silica is virtually inert and has no known adverse effect on the environment. Hydrocarbons are List I substances in the EEC Directive 76/464 for the control of dangerous substances into the aquatic environment.

13. DISPOSAL CONSIDERATIONS

Recommended:
Disposal should be in accordance with local, state or national legislation.
This product normally causes no problems in sewage treatment works, where it settles with the sewage sludge.
This material is not classified as hazardous waste under EEC Directive 91/689/EEC (and amendments). This material is not classified as hazardous waste under the Hazardous Waste (England and Wales) Regulations SI 2005 No. 894.
May be disposed of by landfill in accordance with local regulations.
14. **TRANSPORT INFORMATION**

Not classified according to the United Nations ‘Recommendations on the Transport of Dangerous Goods’.

Packaging: No special packaging requirements.

15. **REGULATORY INFORMATION**

EC Classification: Not classified as dangerous for supply/use.

Safety Phrases: Handle in accordance with good industrial hygiene and safety practices.

Avoid inhalation of dusts.

EINECS: Polymeric material/preparation - all components listed.
TSCA Inventory Status: Mixture - all components included.
AICS Inventory Status: Mixture - all components included.
DSL/NDSL Inventory Status: Mixture - all components included.

16. **OTHER INFORMATION**

The following sections contain revisions or new statements: All sections.

MSDS first issued: 16/10/2001
MSDS data revised: 12/2010

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