

# SAFETY DATA SHEET

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifier

Product Name **Gasil HP220**  
**Wax coated amorphous silica**

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified use(s) Additive for use in a wide range of applications including paints and coatings. Matting agent

Uses advised against None known.

### 1.3 Details of the supplier of the safety data sheet

Company Identification PQ Corporation  
P.O. Box 840  
Valley Forge  
PA 19482  
USA  
Telephone: +1 610-651-4200  
E-Mail (competent person) sds.uk@pqcorp.com

### 1.4 Emergency telephone number

Emergency Phone No. +1 800-424-9300

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

GHS Classification Not classified as dangerous for supply/use.

### Hazards summary

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

### 2.2 Label elements

Safety Phrases Handle in accordance with good industrial hygiene and safety practices.  
Avoid inhalation of dusts.

### 2.3 Other hazards

Not applicable.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient(s)	%W/W	CAS No.	EINECS No. / REACH Registration	Hazard symbol(s) and hazard statement(s)
Synthetic amorphous silica	> 85 %	112926-00-8 *	231-545-4 01-2119379499-16	Not classified
Hydrocarbon wax	< 10 %			Not classified
Water	< 5 %	7732-18-5	231-791-2	

EC Classification No. 67/548/EEC

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of 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.
Inhalation	Remove patient from exposure, keep warm and at rest. 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.

**4.2 Most important symptoms and effects, both acute and delayed** Exposure to any kind of dust is potentially harmful.

**4.3 Indication of any immediate medical attention and special treatment needed** See Section: 4.1

## **SECTION 5: FIRE-FIGHTING MEASURES**

<b>5.1 Extinguishing media</b> Suitable Extinguishing Media	Extinguish preferably 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).
<b>5.2 Special hazards arising from the substance or mixture</b>	Ignites in contact with flame and supports combustion until the wax has burned off.
<b>5.3 Advice for fire-fighters</b>	None.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

<b>6.1 Personal precautions, protective equipment and emergency procedures</b>	Wear suitable protective clothing. Wear eye/face protection. An approved dust mask should be worn if dust is generated during handling.
<b>6.2 Environmental precautions</b>	Contain spillages.
<b>6.3 Methods and materials for containment and cleaning up</b>	Contain spillages. Dampening with water can reduce dust. Sweep or preferably vacuum up and collect in suitable containers for recovery or disposal.
<b>6.4 Reference to other sections</b>	See Also Section 8.

## **SECTION 7: HANDLING AND STORAGE**

<b>7.1 Precautions for safe handling</b>	Avoid generation of dust. 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. 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. See Also Section 8.
<b>7.2 Conditions for safe storage, including any incompatibilities</b>	Keep container tightly closed and dry.
<b>7.3 Specific end use(s)</b>	None known.

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

### 8.1 Control parameters

SUBSTANCE.	Occupational Exposure Limits
Synthetic amorphous silica	UK EH40: Silica amorphous Total inhalable dust: WEL 6 mg/m <sup>3</sup> 8h TWA. Respirable dust: WEL 2.4 mg/m <sup>3</sup> 8h TWA.  US ACGIH: Silica, Amorphous - Precipitated silica and silica gel: TLV withdrawn 2006 US OSHA: Silica amorphous - Precipitated silica: PEL 6mg/m <sup>3</sup> 8h TWA

### 8.2 Exposure controls

Wear protective equipment to comply with good occupational hygiene practice. Do not eat, drink or smoke at the work place.

#### 8.2.1 Appropriate engineering controls

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.

#### 8.2.2 Personal Protection

Respiratory protection

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.

Eye/face protection

Safety spectacles. Eye protection with side protection (EN 166) .

Skin protection

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

#### 8.2.3 Environmental Exposure Controls

Avoid generation of dust.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

### 9.1 Information on basic physical and chemical properties

Appearance	Powder. White.
Odour	Odourless.
Odour Threshold (ppm)	Not applicable.
pH (Value)	2 - 9 at 5% w/w in water.
Freezing Point (°C)	Not applicable.
Melting Point (°C)	Silica >1000 deg C, Wax 100 deg C
Boiling Point (°C)	Silica N/A, Wax 370 deg C
Flash Point (°C) [Closed cup]	Not applicable.
Evaporation rate	Not applicable.
Flammability (solid, gas)	Not applicable.
Explosive Limit Ranges	Not applicable.
Vapour Pressure (mm Hg)	Not applicable.
Vapour Density (Air=1)	Not applicable.
Density (g/ml)	No data.
Solubility (Water)	Insoluble.
Solubility (Other)	No data.
Partition Coefficient	No data.
Auto Ignition Point (°C)	Not applicable.
Decomposition Temperature (°C)	Not applicable.
Viscosity (mPa. s)	Not applicable.
Explosive properties	Minimum explosible concentration 500 g/m <sup>3</sup>
Oxidising Properties	Not applicable.
9.2 Other information	No data.

## **SECTION 10: STABILITY AND REACTIVITY**

<b>10.1 Reactivity</b>	See Section: 10.3
<b>10.2 Chemical stability</b>	Stable under normal conditions.
<b>10.3 Possibility of hazardous reactions</b>	Take precautionary measures against static discharges.
<b>10.4 Conditions to avoid</b>	See Section: 10.3
<b>10.5 Incompatible materials</b>	Avoid contact with: Strong oxidising agents.
<b>10.6 Hazardous decomposition product(s)</b>	None known.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

### **11.1 Information on toxicological effects**

#### **Acute toxicity**

Ingestion	No data available on mixture. The lethal dose for humans for synthetic amorphous silica is estimated at over 15000 mg/kg bw.
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 (eg. 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.
Skin Contact	Dust may have a drying effect on the skin. No data available on mixture. Synthetic amorphous silica : Dermal LD50 (rabbit) >5000 mg/kg bw
Eye Contact	Dust may cause discomfort and mild irritation.
<b>Skin corrosion/irritation</b>	Non-irritant. Dust may have a drying effect on the skin.
<b>Serious eye damage/irritation</b>	Non-irritant.
<b>Sensitisation</b>	Not sensitising.
<b>Mutagenicity</b>	No evidence of genotoxicity.
<b>Carcinogenicity</b>	IARC assessment: Amorphous silica is not classifiable as to its carcinogenicity to humans (Group 3).
<b>Reproductive toxicity</b>	No evidence of reproductive toxicity or developmental toxicity.
<b>STOT - single exposure</b>	Not classified
<b>STOT - repeated exposure</b>	No data available on mixture. Synthetic amorphous silica : Not classified.
<b>Aspiration hazard</b>	Not classified
<b>Other information</b>	Not applicable

## **SECTION 12: ECOLOGICAL INFORMATION**

<b>12.1 Toxicity</b>	No data available on mixture. 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.
<b>12.2 Persistence and degradability</b>	No data available on mixture.
<b>12.3 Bioaccumulative potential</b>	No data available on mixture. Synthetic amorphous silica : Inorganic.
<b>12.4 Mobility in soil</b>	Not applicable.
<b>12.5 Results of PBT and vPvB assessment</b>	Not classified as PBT or vPvB.
<b>12.6 Other adverse effects</b>	None.

## **SECTION 13: DISPOSAL CONSIDERATIONS**

- 13.1 Waste treatment methods** 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.  
Not a hazardous waste under RCRA Sec.3001.

## **SECTION 14: TRANSPORT INFORMATION**

- 14.1 UN number** Not classified as dangerous for transport.  
**14.2 Proper Shipping Name** Not applicable.  
**14.3 Transport hazard class(es)** Not applicable.  
**14.4 Packing group** Not applicable.  
**14.5 Environmental hazards** Not applicable.  
**14.6 Special precautions for user** None. No special packaging requirements.  
**14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

## **SECTION 15: REGULATORY INFORMATION**

### **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

EINECS: All components listed or polymer exempt.  
TSCA Inventory Status: Mixture - all components included.  
AICS Inventory Status: Mixture - all components included.  
DSL/NDSL Inventory Status: Mixture - all components included.

HMIS (Hazardous Material Information System) : Health hazard 1, Flammability 1, Reactivity 0

#### SARA/Title III Hazard Categories

Immediate (acute) Health: No  
Reactive Hazard: No  
Delayed (chronic) Health: No  
Sudden Release of Pressure: No  
Fire Hazard: No

- 15.2 Chemical Safety Assessment** Not available.

## **SECTION 16: OTHER INFORMATION**

Data referenced in this eSDS is from company-owned information, from data legitimately accessed by PQ Corporation through membership of Industry Consortia or other agreements, or from data provided by raw material suppliers.

This SDS was last reviewed: 05/2015

The following sections contain revisions or new statements: All sections updated to comply with Regulation (EC) No.1907/2006 (REACH) and Regulation (EC) No.1272/2008 (CLP) and their amendments.

\* NOTE: 1990 CAS (Chemical Abstract Service) added additional CAS Numbers to differentiate the many amorphous silicas covered by CAS 7631-86-9. CAS 112926-00-8 identifies amorphous silica gel or precipitate containing 0% crystalline silica.

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