

## MATERIAL SAFETY DATA SHEET

**S3620 ROYAL HS**

Version Number 1.0  
Revision Date 06/11/2002

Page 1 of 6  
Print Date 11/4/2011

**1. PRODUCT AND COMPANY IDENTIFICATION**

**POLYONE CORPORATION**  
2700 Papin Street, St. Louis, MO 63103

NON-EMERGENCY TELEPHONE : Product Stewardship, (314) 771-1800  
Emergency telephone number : **CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).**

Product name : S3620 ROYAL HS  
Product code : FO00006959  
Chemical Name : Mixture  
CAS-No. : Mixture  
Product Use : Industrial Applications

**2. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS**

| Components         | CAS-No.    | Weight % |
|--------------------|------------|----------|
| Quartz             | 14808-60-7 | 0.1 - 1  |
| Diatomaceous earth | 61790-53-2 | 1 - 5    |
| Calcium carbonate  | 1317-65-3  | 10 - 30  |

**3. HAZARDS IDENTIFICATION****EMERGENCY OVERVIEW**

This mixture has not been evaluated as a whole for health effects. Information provided on health effects of this product is based on the individual components. However, some vapors or contaminants may be released upon heating and the end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect employees from exposure. See sections 8 and 11 for special precautions.

**POTENTIAL HEALTH EFFECTS**

**Routes of Exposure:** : Inhalation, Skin contact, Ingestion

**Acute exposure**

Inhalation : Inhalation of airborne droplets may cause irritation of the respiratory tract.  
Ingestion : May be harmful if swallowed.  
Eyes : May cause eye/skin irritation.  
Skin : Experience shows no unusual dermatitis hazard from routine handling.

**Chronic exposure** : Refer to Section 11 for Toxicological Information.

## MATERIAL SAFETY DATA SHEET

**S3620 ROYAL HS**

Version Number 1.0  
Revision Date 06/11/2002

Page 2 of 6  
Print Date 11/4/2011

**Medical Conditions** : None known.  
**Aggravated by Exposure:**

**4. FIRST AID MEASURES**

**Inhalation** : Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. When symptoms persist, or in all cases of doubt, seek medical advice.

**Ingestion** : Do not induce vomiting without medical advice. When symptoms persist, or in all cases of doubt, seek medical advice.

**Eyes** : Rinse immediately with plenty of water for at least 15 minutes. If eye irritation persists, seek medical attention.

**Skin** : Wash off with soap and plenty of water. If skin irritation persists seek medical attention.

**5. FIRE-FIGHTING MEASURES**

**Flash point** : No data available.

**Flammable Limits**  
Upper explosion limit : No data available.  
Lower explosion limit : No data available.

**Autoignition temperature** : Not applicable.

**Suitable extinguishing media** : Carbon dioxide blanket, dry powder, foam, Water spray.

**Special Fire Fighting Procedures** : Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants.

**Unusual Fire/Explosion Hazards** : May emit Hydrogen Chloride (HCl) or Carbon Monoxide (CO) under fire conditions.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions** : Wear appropriate personal protection during cleanup, such as impervious gloves, boots and coveralls.

**Environmental precautions** : Should not be released into the environment. The product should not be allowed to enter drains, water courses or the soil.

**Methods for cleaning up** : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Package all material in appropriate container for disposal. Refer to Section 13 of this MSDS for proper disposal methods.

**7. HANDLING AND STORAGE**

**Handling** : Heat only in areas with appropriate exhaust ventilation. Processing

## MATERIAL SAFETY DATA SHEET

**S3620 ROYAL HS**

Version Number 1.0  
Revision Date 06/11/2002

Page 3 of 6  
Print Date 11/4/2011

fume condensates may contain combustible or toxic residue.  
Periodically clean hoods, ducts, and other surfaces to minimize  
accumulation of these materials.

Storage : Keep containers dry and tightly closed to avoid moisture absorption  
and contamination. Store in a cool dry place.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Respiratory protection : Under normal handling conditions a respirator is not required.

Eye/Face Protection : Safety glasses with side-shields.

Hand protection : Protective gloves.

Skin and body protection : Long sleeved clothing.

Additional Protective Measures : Safety shoes.

General Hygiene Considerations : Handle in accordance with good industrial hygiene and safety practice.  
Wash hands before breaks and at the end of workday.

Engineering measures : Heat only in areas with appropriate exhaust ventilation. Provide  
appropriate exhaust ventilation at machinery.

Exposure limit(s)

| Components         | Value                  | Exposure time                | Exposure type    | List:   |
|--------------------|------------------------|------------------------------|------------------|---------|
| Calcium carbonate  | 10 mg/m <sup>3</sup>   | Time Weighted Average (TWA): | Total dust.      | ACGIH   |
| Calcium carbonate  | 5 mg/m <sup>3</sup>    | PEL:                         | Respirable dust. | OSHA Z1 |
|                    | 15 mg/m <sup>3</sup>   | PEL:                         | Total dust.      | OSHA Z1 |
| Diatomaceous earth | 10 mg/m <sup>3</sup>   | Time Weighted Average (TWA): | Inhalable dust.  | ACGIH   |
|                    | 3 mg/m <sup>3</sup>    | Time Weighted Average (TWA): | Respirable dust. | ACGIH   |
| Diatomaceous earth | 20 mppcf               | PEL:                         | Total dust.      | Z3      |
| Quartz             | 0.05 mg/m <sup>3</sup> | Time Weighted Average (TWA): | Respirable dust. | ACGIH   |
| Quartz             | 0.1 mg/m <sup>3</sup>  | PEL:                         | Respirable dust. | OSHA    |
|                    | 0.3 mg/m <sup>3</sup>  | PEL:                         | Total dust.      | OSHA    |

**9. PHYSICAL AND CHEMICAL PROPERTIES**

|            |                   |                  |                   |
|------------|-------------------|------------------|-------------------|
| Form       | : Liquid          | Evaporation rate | : Not established |
| Appearance | : Viscous, Liquid | Specific Gravity | : Not determined  |
| Color      | : BLUE            | Bulk density     | : Not applicable. |
| Odor       | : Very faint      | Vapor pressure   | : Not determined  |

## MATERIAL SAFETY DATA SHEET

**S3620 ROYAL HS**

Version Number 1.0

Page 4 of 6

Revision Date 06/11/2002

Print Date 11/4/2011

|                     |                  |               |                   |
|---------------------|------------------|---------------|-------------------|
| Melting point/range | : Not applicable | Vapor density | : Not determined  |
| Boiling Point:      | : Not applicable | pH            | : Not applicable. |
| Water solubility    | : Immiscible     |               |                   |

**10. STABILITY AND REACTIVITY**

|                                  |   |
|----------------------------------|---|
| Stability                        | : Stable.   |
| Hazardous Polymerization         | : Will not occur.   |
| Conditions to avoid              | : Keep away from oxidizing agents and open flame. To avoid thermal decomposition, do not overheat.  |
| Incompatible Materials           | : Incompatible with strong acids and oxidizing agents. Avoid contact with acetal homopolymers and acetal copolymers during processing.  |
| Hazardous decomposition products | : Carbon dioxide (CO <sub>2</sub> ), carbon monoxide (CO), oxides of nitrogen (NO <sub>x</sub> ), hydrogen chloride (HCl), other hazardous materials, and smoke are all possible. Prolonged heating may result in product degradation. As a general rule of thumb, degradation begins to occur after one hour at 177 °C (350 °F), after 10 minutes at 204 °C (400 °F), and within 5 minutes at 232 °C (450 °F). |

**11. TOXICOLOGICAL INFORMATION**

This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

Toxicity Overview

This product contains the following components which in their pure form have the following characteristics:

| CAS-No.    | Chemical Name      | Effect           | Target Organ                    |
|------------|--------------------|------------------|---------------------------------|
| 14808-60-7 | Quartz             | Systemic effects | Eyes, Respiratory system.       |
| 61790-53-2 | Diatomaceous earth | Irritant         | Eyes, Respiratory system.       |
| 1317-65-3  | Calcium carbonate  | Irritant         | Eyes, Skin.                     |
|            |                    | Systemic effects | Eyes, Skin, Respiratory system. |

## Carcinogenicity:

This product contains the following components which in their pure form have the following carcinogenicity data:

| CAS-No.    | Chemical Name | OSHA | IARC | NTP |
|------------|---------------|------|------|-----|
| 14808-60-7 | Quartz        | no   | 1    | 1   |

## IARC Carcinogen Classifications:

- 1 - The component is carcinogenic to humans.
- 2A - The component is probably carcinogenic to humans.
- 2B - The component is possibly carcinogenic to humans.

## NTP Carcinogen Classifications:

## MATERIAL SAFETY DATA SHEET

**S3620 ROYAL HS**

Version Number 1.0  
Revision Date 06/11/2002

Page 5 of 6  
Print Date 11/4/2011

- 1 - The component is known to be a human carcinogen.  
2 - The component is reasonably anticipated to be a human carcinogen.

**Additional Health Hazard Information:**

**Quartz 14808-60-7** This material in its free releasable form may cause respiratory tract irritation, and possibly silicosis which is a scarring of the lungs.

**12. ECOLOGICAL INFORMATION**

|                               |   |  |
|-------------------------------|---|--|
| Persistence and degradability | : | Not readily biodegradable.   |
| Environmental Toxicity        | : | Environmental toxicity has not been established for this mixture as a whole. |
| Bioaccumulation Potential     | : | No data available.   |
| Additional advice             | : | No data available.   |

**13. DISPOSAL CONSIDERATIONS**

|                        |   |  |
|------------------------|---|--|
| Product                | : | Where possible, recycling is preferred to disposal or incineration. The generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations. |
| Contaminated packaging | : | Recycling is preferred when possible. The generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.                               |

**14. TRANSPORT INFORMATION**

|  |   |                                   |
|--|---|-----------------------------------|
| U.S. D.O.T. / CA T.D.G. Classification (Non-bulk ground) | : | Not regulated for transportation. |
| ICAO/IATA  | : | Not regulated for transportation. |
| IMO / IMDG   | : | Not regulated for transportation. |

**15. REGULATORY INFORMATION**

## US Regulations:

|             |   |  |
|-------------|---|--|
| OSHA Status | : | Classified as hazardous based on components.                                   |
| TSCA Status | : | All components of this product are listed on the TSCA inventory or are exempt. |

US. EPA CERCLA Hazardous Substances (40 CFR 302)

## MATERIAL SAFETY DATA SHEET

**S3620 ROYAL HS**

Version Number 1.0

Revision Date 06/11/2002

Page 6 of 6

Print Date 11/4/2011

Not applicable

California Proposition 65 : WARNING! This product contains a chemical known in the State of California to cause cancer.

Not applicable  
Canadian Regulations:

WHMIS Classification : D2A

## WHMIS Ingredient Disclosure List

| CAS-No.    |
|------------|
| 1344-28-1  |
| 14808-60-7 |
| 7631-86-9  |
| 1314-13-2  |
| 1314-23-4  |
| 107-13-1   |
| 75-01-4    |

DSL : Listed.

## National Inventories:

Australia AICS : Listed.

China IECS : Listed.

Europe EINECS : Not determined.

Japan ENCS : Not determined.

Korea KECI : Listed.

Philippines PICCS : Not determined.

**16. OTHER INFORMATION**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.