### MATERIAL SAFETY DATA SHEET

### PEARL SILVER

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### 1. PRODUCT AND COMPANY IDENTIFICATION

#### POLYONE CORPORATION 33587 Walker Road, Avon Lake, OH 44012

| Telephone:Emergency telephone:number | Product Stewardship (770) 271-5902<br>CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure<br>or accident). |
|--------------------------------------|---|
| Product name                         | PEARL SILVER  |
| Product code                         | CC10064921  |
| Chemical Name                        | Mixture   |
| CAS-No.                              | Mixture   |
| Product Use                          | Industrial Applications   |

### 2. COMPOSITION/INFORMATION ON REGULATED INGREDIENTS

| Components       | CAS-No.    | Weight % |
|------------------|------------|----------|
| Titanium dioxide | 13463-67-7 | 5 - 10   |
| Mica             | 12001-26-2 | 10 - 30  |

### **3. HAZARDS IDENTIFICATION**

#### **EMERGENCY OVERVIEW**

This mixture has not been evaluated as a whole. Information provided on the health effects of this product is based on individual components. All ingredients are bound and potential for hazardous exposure as shipped is minimal. However, some vapors 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.

#### POTENTIAL HEALTH EFFECTS

| <b>Routes of Exposure:</b>                    | : Inhalation, Ingestion, Skin contact   |
|---|---|
| Acute exposure                                |   |
| Inhalation<br>Ingestion<br>Eyes               | <ul> <li>Resin particles, like other inert materials, can be mechanically irritating.</li> <li>May be harmful if swallowed.</li> <li>Resin particles, like other inert materials, are mechanically irritating to eyes.</li> </ul> |
| Skin  | : Experience shows no unusual dermatitis hazard from routine handling.  |
| Chronic exposure                              | : Refer to Section 11 for Toxicological Information.  |
| Medical Conditions<br>Aggravated by Exposure: | : None known.   |



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|  | 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 o 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, also under the eyelids, 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 see medical attention.   |
|  | 5. FIRE-FIGHTING MEASURES  |
| Flash point  | : Not applicable   |
| Flammable Limits<br>Upper explosion limit<br>Lower explosion limit<br>Autoignition temperature<br>Suitable extinguishing media | <ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Carbon dioxide blanket, water spray, dry powder, foamnone.</li> </ul>   |
| Special Fire Fighting<br>Procedures<br>Unusual Fire/Explosion  | <ul> <li>Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants.</li> <li>Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen</li> </ul> |
| Hazards  | (NOx), other hazardous materials, and smoke are all possible.  |
|  | 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  | : Clean up promptly by sweeping or vacuum. Package all material in plastic, cardboard or metal containers for disposal. Refer to Section 1 of this MSDS for proper disposal methods.   |
|  | 7. HANDLING AND STORAGE  |
| Handling   | : Take measures to prevent the build up of electrostatic charge. Heat only in areas with appropriate exhaust ventilation.  |
| Storage  | : Keep containers dry and tightly closed to avoid moisture absorption  |



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| 8. E  | XPOSURE                 | <b>CONTROLS / PERSONAL</b>  | PROTECTION               |                |
|---|-------------------------|---|--------------------------|----------------|
| Respiratory protection  | : N                     | lo personal respiratory protecti                                  | ive equipment normally r | required.      |
| Eye/Face Protection   | : S                     | afety glasses with side-shields                                   |                          |                |
| Hand protection   | : P                     | rotective gloves.   |                          |                |
| Skin and body protection  | : L                     | ong sleeved clothing.   |                          |                |
| Additional Protective<br>Measures                                 | : S                     | afety shoes.  |                          |                |
| General Hygiene<br>Considerations                                 |                         | andle in accordance with good<br>ash hands before breaks and a    |                          | afety practice |
| Engineering measures  |                         | leat only in areas with appropr<br>ppropriate exhaust ventilation |                          | Provide        |
| Exposure limit(s)   |                         |   |                          |                |
| Components  | Value                   | Exposure time   | Exposure type            | List:          |
| Mica  | 20 mppcf                | PEL:  | Total dust.              | OSHA           |
|   | 3 mg/m3                 | Time Weighted Average (TWA):                                      | Respirable fraction.     | ACGIH          |
| Titanium dioxide  | 10 mg/m3                | Time Weighted Average (TWA):                                      |                          | ACGIH          |
|   | 15 mg/m3                | PEL:  | Total dust.              | OSHA Z1        |
|   |                         |   |                          |                |
|   | 9. PHYSIC               | CAL AND CHEMICAL PRO  | OPERTIES                 |                |
| Form  | : Solid                 | l Evapo   | ration rate : Not        | applicable     |
| Appearance  | : Pelle                 |   |                          | determined     |
| Color   | : GRE                   |   |                          | established    |
|   |                         |   |                          | applicable     |
| Odor  |                         |   |                          | applicable     |
| Odor  |                         |   |                          | applicable     |
| Odor<br>Melting point/range                                       | : Not a                 | applicable pH   |                          | 11             |
| Odor  | : Not a<br>: Insol      |   |                          |                |
| Odor<br>Melting point/range<br>Boiling Point:                     | : Insol                 |   | VITY                     |                |
| Odor<br>Melting point/range<br>Boiling Point:<br>Water solubility | : Insol<br>10. S        | uble  | VITY                     |                |
| Odor<br>Melting point/range<br>Boiling Point:                     | : Insol<br>10. S<br>: S | uble  | VITY                     |                |

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| Incompatible Materials           | : | Incompatible with strong acids and oxidizing agents.   |
|----------------------------------|---|--|
| Hazardous decomposition products | : | Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), other hazardous materials, and smoke are all possible. |

### 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        |
|------------|------------------|------------------|---------------------|
| 13463-67-7 | Titanium dioxide | Systemic effects | Respiratory system. |
| 12001-26-2 | Mica             | Systemic effects | Respiratory system. |

|                               | 12. ECOLOGICAL INFORMATION  |
|-------------------------------|---|
| Persistence and degradability | : Not readily biodegradable.  |
| Environmental Toxicity        | : Chemicals are not readily available as they are bound within the polymer matrix.  |
| Bioaccumulation Potential     | : Chemicals are not readily available as they are bound within the polymer matrix.  |
| Additional advice             | : No data available   |
|                               | 13. DISPOSAL CONSIDERATIONS   |
| Product                       | : Like most thermoplastic plastics the product can be recycled. 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 materia 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. DOT Classification       | : Not regulated for transportation.   |
|                               |   |

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|  | 15. RE   | EGULATORY IN   | FORMATION                           |               |                     |
|--|--|--|-------------------------------------|---------------|---------------------|
| US Regulations:  |  |  |                                     |               |                     |
| OSHA Status  | : Cla  | ssified as hazardo   | ous based on comp                   | onents.       |                     |
| TSCA Status  |  | l components of the  | is product are liste                | ed on or exe  | empt from the TSC   |
| US. EPA CERCLA Hazardous   |  | -  |                                     |               |                     |
| Not applicable   |  |  |                                     |               |                     |
| California Proposition<br>65   | : Thi  | is product does no   | t contain a substan                 | ice listed by | y California Prop 6 |
| SARA Title III Section 302 Ext   | tremely H  | Hazardous Substar  | ice                                 |               |                     |
| Not applicable   |  |  |                                     |               |                     |
| Not applicable SARA Title III Section 313 To   | xic Chem   | nicals:  |                                     |               |                     |
| SARA Title III Section 313 Top   | xic Chem   | iicals:  | CAS-No.                             |               | ght %               |
| SARA Title III Section 313 To<br>Chemical Name<br>ZINC COMPOUNDS   | xic Chem   | iicals:  | CAS-No.<br>68187-51-9               | Weig<br>1.43  |                     |
| SARA Title III Section 313 Top   | xic Chem   | nicals:  |                                     |               |                     |
| SARA Title III Section 313 Tox<br>Chemical Name<br>ZINC COMPOUNDS<br>Canadian Regulations:<br>National Pollutant Relea   |  |  | 68187-51-9                          | 1.43          |                     |
| SARA Title III Section 313 Tox<br>Chemical Name<br>ZINC COMPOUNDS<br>Canadian Regulations:<br>National Pollutant Relea<br>Chemical Name  | use Invent   | tory (NPRI)  | 68187-51-9<br>CAS-No.               | U.43          | % NPRI ID#          |
| SARA Title III Section 313 Tox<br>Chemical Name<br>ZINC COMPOUNDS<br>Canadian Regulations:<br>National Pollutant Relea   | use Invent   | tory (NPRI)  | 68187-51-9                          | 1.43          |                     |
| SARA Title III Section 313 Tox<br>Chemical Name<br>ZINC COMPOUNDS<br>Canadian Regulations:<br>National Pollutant Relea<br>Chemical Name  | se Invent<br>C.I. Pigm   | tory (NPRI)  | 68187-51-9<br>CAS-No.               | U.43          | % NPRI ID#          |
| SARA Title III Section 313 Tor<br>Chemical Name<br>ZINC COMPOUNDS<br>Canadian Regulations:<br>National Pollutant Relea<br>Chemical Name<br>Zinc ferrite brown spinel (   | ise Invent<br>C.I. Pigm<br>: Not<br>: All                          | tory (NPRI)<br>nent Yellow 119)<br>t controlled.   | 68187-51-9<br>CAS-No.<br>68187-51-9 | Ueight 1.43   | % NPRI ID#<br>231   |
| SARA Title III Section 313 Tor<br>Chemical Name<br>ZINC COMPOUNDS<br>Canadian Regulations:<br>National Pollutant Relea<br>Chemical Name<br>Zinc ferrite brown spinel (<br>WHMIS Classification   | ise Invent<br>C.I. Pigm<br>: Not<br>: All                          | tory (NPRI)<br>nent Yellow 119)<br>t controlled.<br>l components of th                       | 68187-51-9<br>CAS-No.<br>68187-51-9 | Ueight 1.43   | % NPRI ID#<br>231   |
| SARA Title III Section 313 Tor<br>Chemical Name<br>ZINC COMPOUNDS<br>Canadian Regulations:<br>National Pollutant Relea<br>Chemical Name<br>Zinc ferrite brown spinel (<br>WHMIS Classification<br>DSL  | <u>se Invent</u><br>C.I. Pigm<br>: Not<br>: All<br>Sub             | tory (NPRI)<br>nent Yellow 119)<br>t controlled.<br>l components of th                       | 68187-51-9<br>CAS-No.<br>68187-51-9 | Ueight 1.43   | % NPRI ID#<br>231   |
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| SARA Title III Section 313 Tor<br>Chemical Name<br>ZINC COMPOUNDS<br>Canadian Regulations:<br>National Pollutant Relea<br>Chemical Name<br>Zinc ferrite brown spinel (<br>WHMIS Classification<br>DSL<br>National Inventories:<br>Australia AICS | ise Invent<br>C.I. Pigm<br>: Not<br>: All<br>Sub<br>: Lis<br>: Lis | tory (NPRI)<br>nent Yellow 119)<br>t controlled.<br>l components of ti<br>ostances List (DSI | 68187-51-9<br>CAS-No.<br>68187-51-9 | Ueight 1.43   | % NPRI ID#<br>231   |

| POLYONE CORPORA                                |      | N               |        | PolyOne.   |                           |
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| MATERIAL SAFETY DATA SH                        | HEET |                 |        |            |                           |
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|  |      |                 |        |            |                           |
|  |      |                 |        |            |                           |
| Korea KECI                                     | :    | Listed          |        |            |                           |
| Philippines PICCS                              | :    | Listed          |        |            |                           |
|  |      | 16. OTHER INFOR | MATION |            |                           |

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 when used in combination with any other materials and/or in any particular process or processing conditions.