PolvOne

MATERIAL SAFETY DATA SHEET 134494 RD PEARL PE MASTERBATCH

Version Number 1.0 Revision Date 07/12/2011 Page 1 of 7 Print Date 1/24/2012

1. PRODUCT AND COMPANY IDENTIFICATION

POLYONE CORPORATION 33587 Walker Road, Avon Lake, OH 44012

| Telephone Emergency telephone | : | 1 (440) 930-1000 or 1 (866) POLYONE CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident). |
|----------------------------------|---|--|
| Product name | : | 134494 RD PEARL PE MASTERBATCH |
| Product code | : | CC10134494 |
| Chemical Name | : | Mixture |
| CAS-No. | : | Mixture |
| Product Use | : | Industrial Applications |

2. COMPOSITION/INFORMATION ON REGULATED INGREDIENTS

| Components | CAS-No. | Weight percent |
|------------------|------------|----------------|
| Calcium stearate | 1592-23-0 | 1 - 5 |
| Rutile (TiO2) | 1317-80-2 | 1 - 5 |
| Mica | 12001-26-2 | 10 - 30 |
| Titanium dioxide | 13463-67-7 | 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

| Routes of Exposure: | : Inhalation, Ingestion, Skin contact |
|---------------------|---|
| Acute exposure | |
| Inhalation | : Resin particles, like other inert materials, can be mechanically irritating. |
| Ingestion | : May be harmful if swallowed. |
| Eyes | : Resin particles, like other inert materials, are mechanically irritating to eyes. |
| Skin | : Experience shows no unusual dermatitis hazard from routine handling. |

PolyOne.

MATERIAL SAFETY DATA SHEET 134494 RD PEARL PE MASTERBATCH

Version Number 1.0 Revision Date 07/12/2011 Page 2 of 7 Print Date 1/24/2012

| Medical Conditions Aggravated by Exposure: | : | None known. |
|--|-------------|---|
| | | 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, 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 seek medical attention. |
| | | 5. FIRE-FIGHTING MEASURES |
| Flash point | : | not applicable |
| Flammable Limits Upper explosion limit Lower explosion limit Autoignition temperature Suitable extinguishing media Special Fire Fighting Procedures Unusual Fire/Explosion Hazards | :: | not applicable not applicable Carbon dioxide blanket, Water spray, Dry powder, Foam. Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants. Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), other hazardous materials, and smoke are all possible. |
| | 6 1 | CCIDENTAL RELEASE MEASURES |
| | U. A | |
| 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 13 of this MSDS for proper disposal methods. |

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MATERIAL SAFETY DATA SHEET 134494 RD PEARL PE MASTERBATCH

Version Number 1.0 Revision Date 07/12/2011 Page 3 of 7 Print Date 1/24/2012

| 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 and contamination. Keep in a dry, cool place. |
| 8. EX | POSU | RE CONTROLS/PERSONAL PROTECTION |
| Respiratory protection | : | No personal respiratory protective equipment normally 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. |

PolvOne

MATERIAL SAFETY DATA SHEET 134494 RD PEARL PE MASTERBATCH

Version Number 1.0 Revision Date 07/12/2011 Page 4 of 7 Print Date 1/24/2012

| Components | Value | Exposure time | Exposure type | List: |
|------------------|----------|-----------------------------------|----------------------|----------|
| Calcium stearate | 10 mg/m3 | Time Weighted Average (TWA): | | ACGIH |
| Mica | 3 mg/m3 | Time Weighted Average (TWA): | Respirable fraction. | ACGIH |
| | 3 mg/m3 | Recommended exposure limit (REL): | Respirable. | NIOSH |
| | 3 mg/m3 | Time Weighted Average (TWA): | Respirable dust. | OSHA Z1A |
| | 3 mg/m3 | Time Weighted Average (TWA): | | MX OEL |
| Titanium dioxide | 10 mg/m3 | Time Weighted Average (TWA): | | ACGIH |
| | 15 mg/m3 | PEL: | Total dust. | OSHA Z1 |
| | 10 mg/m3 | Time Weighted Average (TWA): | Total dust. | OSHA Z1A |
| | 10 mg/m3 | Time Weighted Average (TWA): | as Ti | MX OEL |
| | 20 mg/m3 | Short Term Exposure Limit (STEL): | as Ti | MX OEL |

9. PHYSICAL AND CHEMICAL PROPERTIES

- Form Appearance Colour Odour Melting point/range Boiling Point: Water solubility
- solid
 pellets
 RED
 very faint
 Not determined
 not applicable
 insoluble

Evaporation rate Specific Gravity Bulk density Vapour pressure Vapour density pH Not applicable
Not determined
Not established
not applicable
not applicable
not applicable

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. |
| 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.

MATERIAL SAFETY DATA SHEET 134494 RD PEARL PE MASTERBATCH

Version Number 1.0 Revision Date 07/12/2011 Page 5 of 7 Print Date 1/24/2012

Toxicity Overview

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

| CAS-No. | Chemical Name | Effect | Target Organ |
|------------|------------------|------------------|---------------------|
| 12001-26-2 | Mica | Systemic effects | Respiratory system. |
| 13463-67-7 | Titanium dioxide | Systemic effects | Respiratory system. |

LC50 / LD50

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

| CAS-No. | Chemical Name | Route | Value | Species |
|-----------|------------------|-----------|-----------|---------|
| 1592-23-0 | Calcium stearate | Oral LD50 | >10 gm/kg | rat |

Carcinogenicity

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

| CAS-No. | Chemical Name | OSHA | IARC | NTP |
|------------|------------------|------|------|-----|
| 1317-80-2 | Rutile (TiO2) | no | 2B | no |
| 13463-67-7 | Titanium dioxide | no | 2B | no |

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:

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

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

| | 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 | 3. 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. | | |

MATERIAL SAFETY DATA SHEET 134494 RD PEARL PE MASTERBATCH

Version Number 1.0 Page 6 of 7 Print Date 1/24/2012 Revision Date 07/12/2011 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. DOT Classification Not regulated for transportation. : ICAO/IATA Refer to specific regulation. : IMO/IMDG (maritime) Refer to specific regulation. ÷ **15. REGULATORY INFORMATION US Regulations: OSHA Status** : Classified as hazardous based on components. **TSCA Status** All components of this product are listed on or exempt from the : TSCA Inventory. US. EPA CERCLA Hazardous Substances (40 CFR 302) not applicable California Proposition : Not applicable 65 SARA Title III Section 302 Extremely Hazardous Substance Unless specific chemicals are identified under this section, this product is Not Applicable under this regulation SARA Title III Section 313 Toxic Chemicals: Unless specific chemicals are identified under this section, this product is Not Applicable under this regulation Canadian Regulations: National Pollutant Release Inventory (NPRI) not applicable

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MATERIAL SAFETY DATA SHEET 134494 RD PEARL PE MASTERBATCH

Version Number 1.0 Revision Date 07/12/2011 Page 7 of 7 Print Date 1/24/2012

| WHMIS Classification | : | D2A | | |
|----------------------------------|---|--|--|--|
| WHMIS Ingredient Disclosure List | | | | |
| CAS-No. 12001-26-2 | | | | |
| DSL | : | All components of this product are on the Canadian Domestic Substances List (DSL) or are exempt. | | |
| National Inventories: | | | | |
| Australia AICS | : | Listed | | |
| China IECS | : | Listed | | |
| Europe EINECS | : | Listed | | |
| Japan ENCS | : | Listed | | |
| Korea KECI | : | Listed | | |
| Philippines PICCS | : | Listed | | |
| | | 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.