PolvOne

MATERIAL SAFETY DATA SHEET MEDIUM GREEN

Version Number 1.1 Revision Date 03/26/2014

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| 1. PRODUCT AND COMPANY IDENTIFICATION | | | | | |
|---|---|--|--|--|--|
| POLYONE CORPORATION 33587 Walker Road, Avon Lake, OH 44012 | | | | | |
| Telephone Emergency telephone number | : | 1 (440) 930-1000 or 1 (866) POLYONE CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident). | | | |
| Product name | : | MEDIUM GREEN | | | |
| Product code | : | CC10134931 | | | |
| Chemical Name | : | Mixture | | | |
| CAS-No. | : | Mixture | | | |
| Product Use | : | Industrial Applications | | | |

2. COMPOSITION/INFORMATION ON INGREDIENTS

| Components | CAS-No. | Weight percent |
|-------------------|------------|----------------|
| Calcium carbonate | 1317-65-3 | 5 - 10 |
| 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

| : Inhalation, Ingestion, Skin contact |
|---|
| |
| : Resin particles, like other inert materials, can be mechanically irritating. |
| : May be harmful if swallowed. |
| : Resin particles, like other inert materials, are mechanically irritating to eyes. |
| : Experience shows no unusual dermatitis hazard from routine handling. |
| : Refer to Section 11 for Toxicological Information. |
| |

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| 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 a 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. FIREFIGHTING MEASURES |
| Flash point | : not applicable |
| Flammable Limits Upper explosion limit Lower explosion limit Auto-ignition temperature Suitable extinguishing media Special Fire Fighting Procedures | not applicable 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 |
| Unusual Fire/Explosion Hazards | contaminants. Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (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 no 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. |
| | 7. HANDLING AND STORAGE |
| Handling | : Take measures to prevent the build up of electrostatic charge. Heat only in areas with appropriate exhaust ventilation. |

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Storage

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

8. EXPOSURE 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. |

Exposure limit(s)

| Components | Value | Exposure time | Exposure type | List: |
|-------------------|----------|-----------------------------------|----------------------|----------|
| Calcium carbonate | 5 mg/m3 | PEL: | Respirable fraction. | OSHA Z1 |
| | 15 mg/m3 | PEL: | Total dust. | OSHA Z1 |
| | 10 mg/m3 | Time Weighted Average (TWA): | | MX OEL |
| | 20 mg/m3 | Short Term Exposure Limit (STEL): | | 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
- : solid
 : pellets
 : GREEN
 : very faint
 : Not determined
- Evapouration rate Specific Gravity Bulk density Vapour pressure Vapour density
- Not applicableNot determinedNot establishednot applicablenot applicable



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| Boiling Point: Water solubility | : not applicable : insoluble | рН | : not applicable |
|------------------------------------|--|------------------|---|
| | 10. STABILITY AND R | EACTIVITY | |
| Stability | : The product is stable i | f stored and han | dled as prescribed. |
| Hazardous Polymerization | : Will not occur. | | |
| Conditions to avoid | : Keep away from oxidi decomposition, do not | 00 | open flame. To avoid thermal |
| Incompatible Materials | : Incompatible with stro | ong acids and ox | idizing agents. |
| Hazardous decomposition products | | | de (CO), oxides of nitrogen 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 |
|------------|-------------------|------------------|-------------------------|
| 1317-65-3 | Calcium carbonate | Irritant | Eyes, Skin. |
| | | Systemic effects | Eyes, Skin, Respiratory |
| | | | system. |
| 13463-67-7 | Titanium dioxide | Systemic effects | 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 |
|------------|------------------|------|------|-----|
| 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.

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| polymer matrix. Bioaccumulation Potential : Chemicals are not readily available as they are bound within polymer matrix. Additional advice : no data available I3. DISPOSAL CONSIDERATIONS Product : Like most thermoplastic plastics the product can be recycled possible recycling is preferred to disposal or incineration. To generator of waste material has the responsibility for proper 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. 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. U.S. DOT Classification : Not regulated for transportation. ILAO/IATA : Refer to specific regulation. IMO/IMDG (maritime) : Refer to specific regulation. US Regulations: OSHA Status : Classified as hazardous based on components. TSCA Status : All components of this product are listed on or exempt fron TSCA Inventory. | mber 1.1 ate 03/26/2014 | Page 5 Print Date 4/2/2 |
|--|----------------------------|---|
| Bioaccumulation Potential : Chemicals are not readily available as they are bound within polymer matrix. Additional advice : no data available 13. DISPOSAL CONSIDERATIONS Product : Like most thermoplastic plastics the product can be recycled possible recycling is preferred to disposal or incineration. T generator of waste material has the responsibility for proper classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations. Contaminated packaging : Recycling is preferred when possible. The generator of wast 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 wast material has the responsibility for proper waste classification transportation and disposal in accordance with applicable federal, state/provincial and local regulations. US. DOT Classification : Not regulated for transportation. ICAO/IATA : Refer to specific regulation. IMO/IMDG (maritime) : Refer to specific regulation. US Regulations: OSHA Status : Classified as hazardous based on components. TSCA Status : All components of this product are listed on or exempt fron TSCA Inventory. | | |
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| | not applicable | |
| | - | Not applicable |
| | | |

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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) | | | |
|---|-----------|-------------|----------|
| Chemical Name | CAS-No. | Weight | NPRI ID# |
| | | percent | |
| Aluminum oxide | 1344-28-1 | 0.10 - 1.00 | |
| Phthalocyanine green | 1328-53-6 | 1.00 - 5.00 | |

WHMIS Classification : D2A

WHMIS Ingredient Disclosure List

:

| CAS-No. | |
|-----------|--|
| 1328-53-6 | |

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

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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.