PolvOne

MATERIAL SAFETY DATA SHEET AVALON GREEN PET V4

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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 | : | AVALON GREEN PET V4 | | |
| Product code | : | CC10131655 | | |
| Chemical Name | : | Mixture | | |
| CAS-No. | : | Mixture | | |
| Product Use | | Industrial Applications | | |

2. COMPOSITION/INFORMATION ON INGREDIENTS

| Components | CAS-No. | Weight percent |
|---|-------------|----------------|
| Silica, amorphous, precipitated and gel | 112926-00-8 | 1 - 5 |

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. |
| Chronic exposure | : 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 or 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. FIREFIGHTING MEASURES |
| Flash point | : not applicable |
| Flammable Limits Upper explosion limit Lower explosion limit Auto-ignition temperature Suitable extinguishing media Special Fire Fighting Procedures Unusual Fire/Explosion Hazards | 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 contaminants. Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), other hazardous materials, and smoke are all possible. 6. ACCIDENTAL RELEASE MEASURES |
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| 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. |
| | 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 I | PROTECTION | | |
| Respiratory protection : No personal respiratory protective equipment normally re | | | 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 Measures | : S | 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: | |
| Silica, amorphous, precipitated and gel | 6 mg/m3 | Time Weighted Average (TWA): | | OSHA Z1A | |
| | 10 mg/m3 | Time Weighted Average (TWA): | | MX OEL | |
| | 0.8 mg/m3 | Time Weighted Average (TWA): | | Z3 | |

9. PHYSICAL AND CHEMICAL PROPERTIES

| Form Appearance Colour Odour Melting point/range Boiling Point: Water solubility | solid pellets GREEN very faint Not determined not applicable insoluble | Evapouration rate Specific Gravity Bulk density Vapour pressure Vapour density pH | Not applicable Not determined Not established not applicable not applicable not applicable |
|--|--|--|---|
| | 10. STABILITY AN | D REACTIVITY | |
| Stability | : The product is stal | ole if stored and handled as | prescribed. |
| | - | | I |
| Hazardous Polymerization | : Will not occur. | | 1 |
| Hazardous Polymerization Conditions to avoid | | xidizing agents and open fl | |

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| | | 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.

Toxicity Overview

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

| CAS-No. 112926-00-8 | Silica, amorphous, | Effect Irritant | Target Organ Respiratory system, Eyes. | | |
|-------------------------|---|--|---|--|--|
| 112/20 00 0 | precipitated and gel | | | | |
| | | | | | |
| | 12. ECOLOGIO | CAL INFORMATION | ON | | |
| Persistence and degrada | bility : Not readily bi | iodegradable. | | | |
| Environmental Toxicity | | : Chemicals are not readily available as they are bound within the polymer matrix. | | | |
| Bioaccumulation Potent | tial : Chemicals are polymer matr | | e as they are bound within the | | |
| Additional advice | : no data availa | ble | | | |
| | 13. DISPOSAL | CONSIDERATIO | NS | | |
| Product | possible recyc generator of v classification, | cling is preferred to o waste material has th , transportation and o | he product can be recycled. When disposal or incineration. The e responsibility for proper waste disposal in accordance with l and local regulations. | | |
| Contaminated packagin | material has t transportation | : 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. TRANSPO | RT INFORMATIO | N | | |
| | n : Not regulated | for transportation. | | | |
| U.S. DOT Classification | | | | | |
| U.S. DOT Classification | : Refer to speci | ific regulation. | | | |

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| IMO/IMDG (maritime) | : | |
|---|---|--|
| | 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 S | Subst | tances (40 CFR 302) |
| not applicable | | |
| California Proposition 65 | : | Not applicable |
| | | |
| SARA Title III Section 302 Extr | remel | ly Hazardous Substance |
| SARA Title III Section 302 Extr | | |
| SARA Title III Section 302 Extr | | |
| SARA Title III Section 302 Extr | lentifi | ied under this section, this product is Not Applicable under this regulati |
| SARA Title III Section 302 Extr Unless specific chemicals are id SARA Title III Section 313 Tox | lentifi kic Ch | ied under this section, this product is Not Applicable under this regulati nemicals: |
| SARA Title III Section 302 Extr Unless specific chemicals are id SARA Title III Section 313 Tox | lentifi kic Ch | ied under this section, this product is Not Applicable under this regulati nemicals: |
| SARA Title III Section 302 Extr Unless specific chemicals are id SARA Title III Section 313 Tox Unless specific chemicals are id | lentifi kic Ch lentifi | ied under this section, this product is Not Applicable under this regulati memicals: ied under this section, this product is Not Applicable under this regulati |
| SARA Title III Section 302 Extr Unless specific chemicals are id SARA Title III Section 313 Tox Unless specific chemicals are id Canadian Regulations: | lentifi kic Ch lentifi | ied under this section, this product is Not Applicable under this regulati memicals: ied under this section, this product is Not Applicable under this regulati |
| SARA Title III Section 302 Extr Unless specific chemicals are id SARA Title III Section 313 Tox Unless specific chemicals are id Canadian Regulations: National Pollutant Releas | lentifi kic Ch lentifi se Inv | ied under this section, this product is Not Applicable under this regulati memicals: ied under this section, this product is Not Applicable under this regulati |
| SARA Title III Section 302 Extr Unless specific chemicals are id SARA Title III Section 313 Tox Unless specific chemicals are id Canadian Regulations: National Pollutant Releas not applicable | lentifi kic Ch lentifi se Inv : | ied under this section, this product is Not Applicable under this regulati nemicals: ied under this section, this product is Not Applicable under this regulati ventory (NPRI) |
| SARA Title III Section 302 Extr Unless specific chemicals are id SARA Title III Section 313 Tox Unless specific chemicals are id Canadian Regulations: National Pollutant Releas not applicable WHMIS Classification | lentifi kic Ch lentifi se Inv : | ied under this section, this product is Not Applicable under this regulati nemicals: ied under this section, this product is Not Applicable under this regulati ventory (NPRI) D2B All components of this product are on the Canadian Domestic |
| SARA Title III Section 302 Extr Unless specific chemicals are id SARA Title III Section 313 Tox Unless specific chemicals are id Canadian Regulations: National Pollutant Releas not applicable WHMIS Classification DSL | lentifi kic Ch lentifi se Inv : | ied under this section, this product is Not Applicable under this regulati nemicals: ied under this section, this product is Not Applicable under this regulati ventory (NPRI) D2B All components of this product are on the Canadian Domestic |
| SARA Title III Section 302 Extr Unless specific chemicals are id SARA Title III Section 313 Tox Unless specific chemicals are id Canadian Regulations: National Pollutant Releas not applicable WHMIS Classification DSL National Inventories: | lentifi kic Ch lentifi se Inv : | ied under this section, this product is Not Applicable under this regulationemicals: ied under this section, this product is Not Applicable under this regulation ventory (NPRI) D2B All components of this product are on the Canadian Domestic Substances List (DSL) or are exempt. |

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| Japan ENCS | : No | ot determined |
|------------|------|---------------|
|------------|------|---------------|

Korea KECI : Not determined

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.