PolvOne

MATERIAL SAFETY DATA SHEET 202660 VERDE

Version Number 1.1 Revision Date 03/26/2014 Page 1 of 7 Print Date 4/2/2014

| 1. | PROD | UCT AND COMPANY IDENTIFICATION |
|--|------|--|
| POLYONE CORPORATI 33587 Walker Road, Avoi | | 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 | : | 202660 VERDE |
| Product code | : | CC10134953 |
| Chemical Name | : | Mixture |
| CAS-No. | : | Mixture |
| Product Use | | Industrial Applications |

2. COMPOSITION/INFORMATION ON INGREDIENTS

| Components | CAS-No. | Weight percent |
|------------------|------------|----------------|
| Titanium dioxide | 13463-67-7 | 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 | : Particulates, like other inert materials can be mechanically irritating. If overheated or burnt, the polymer releases formaldehyde. |
| Ingestion | : May be harmful if swallowed. |
| Eyes | : Particulates, like other inert materials can be mechanically irritating. |
| Skin | : Experience shows no unusual dermatitis hazard from routine handling. |
| Chronic exposure | : Refer to Section 11 for Toxicological Information. |

PolyOne.

MATERIAL SAFETY DATA SHEET **202660 VERDE**

Version Number 1.1 Revision Date 03/26/2014 Page 2 of 7 Print Date 4/2/2014

| 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 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 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. If overheated or burnt, the polymer releases formaldehyde. May burn with invisible flame. 6. ACCIDENTAL RELEASE MEASURES |
| | 0. 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. |
| | 7. HANDLING AND STORAGE |
| Handling | : Take measures to prevent the build up of electrostatic charge. Open |



MATERIAL SAFETY DATA SHEET 202660 VERDE

| sion Date 03/26/2014 | | | Pri | nt Date 4/2/2 | |
|-----------------------------------|---|--|--|--------------------------|--|
| | | ontainer only in a well-ventilate ppropriate exhaust ventilation. | d area. Heat only in a | areas with | |
| Storage | | Leep containers dry and tightly c nd contamination. Keep in a dr | | re absorption | |
| 8.1 | EXPOSURE | CONTROLS/PERSONAL P | ROTECTION | | |
| Respiratory protection | V ir p | lo personal respiratory protectiv When temperatures exceed 230° nadequate to maintain concentra ositive air supplied respirator. A rovide adequate protection. | C (446°F) and ventilat tions below exposure | tion is limits, use a | |
| Eye/Face Protection | | afety glasses with side-shields or abnormal processing problem | | protective suit | |
| Hand protection | : P | rotective gloves | | | |
| Skin and body protection | : L | ong sleeved clothing | | | |
| Additional Protective Measures | : Safety shoes | | | | |
| General Hygiene Considerations | | | | | |
| Engineering measures | asures : Heat only in areas with appropriate exhaust ventilation. Provide appropriate exhaust ventilation at machinery. | | | | |
| Exposure limit(s) | | | | | |
| Components | Value | Exposure time | Exposure type | List: | |
| 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

: solid : pellets, Slabs : GREEN : formaldehyde-like Evapouration rate Specific Gravity Bulk density Vapour pressure

: Not applicable : Not determined : Not established : not applicable

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Page 4 of 7

POLYONE CORPORATION

MATERIAL SAFETY DATA SHEET 202660 VERDE

Version Number 1.1 03/26/2014 Dote R

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| ision Date 03/26/2014 | | | | | Print Date 4/2/2014 |
|---|------|---|--|---|--|
| Melting point/range Boiling Point: Water solubility | : nc | ot determined ot applicable soluble | Vapour density pH | : | not applicable not applicable |
| | 1(|). STABILITY AND R | EACTIVITY | | |
| Stability | : | The product is stable i | f stored and handled a | is presc | cribed. |
| Hazardous Polymerization | : | Will not occur. | | | |
| Conditions to avoid | : | Maintain polymer tem prolonged exposure at temperature. | | | |
| Incompatible Materials | : | Incompatible with struct (decomposes to form for resins are incompatible (PVC) and any elastor processing conditions, involve rapid degradate can cause sudden and Workplace fume well Unsafe pressurization result. Thoroughly put equipment to avoid eve from coming in contact virgin or rework resin. | Formaldehyde). At me e with halogenated po ners containing any ha these materials are m ion. Even small amou spontaneous formalde above threshold levels of equipment such as ge and mechanically of en trace quantities of et with the acetal. Prev | It temp lymers alogena utually ints of a shyde g s are a extrude clean p halogen | eratures, acetal such as vinyl ated polymers. At destructive and such contaminants as formation. likely result. er or mold can also rocessing nated materials |
| Hazardous decomposition products | : | Carbon dioxide (CO2) (NOx), other hazardou overheated or burnt, th Decomposition of this exposed to elevated te temperature of 210°C- not be significant until accelerated by contam | as materials, and smok ne polymer releases for material depends on t mperatures. At the rec 220°C (410°F-428°F) after 30 minutes. Dec | te are a rmalde the leng comme), decon compos | ll possible. If hyde. ght of time it is nded processing mposition should sition may be |

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. |

Carcinogenicity

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MATERIAL SAFETY DATA SHEET **202660 VERDE**

Version Number 1.1 Revision Date 03/26/2014

Page 5 of 7 Print Date 4/2/2014

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.

| 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 | : not applicable |
| | 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 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 |

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MATERIAL SAFETY DATA SHEET **202660 VERDE**

| sion Date 03/26/2014 | | | | Print Date 4/2 |
|--|---|---|--|-------------------------------|
| US Regulations: | | | | |
| OSHA Status | : Classified as | hazardous based on | components. | |
| TSCA Status | : All compone TSCA Invent | ents of this product a ory. | are listed on or exer | mpt from the |
| US. EPA CERCLA Hazardo | ous Substances (40 CF | R 302) | | |
| not applicable | | | | |
| | | | | |
| California Propositio 65 | n : Not applicab | le | | |
| SARA Title III Section 302 | Extremely Hazardous | Substance | | |
| Unless specific chemicals ar | e identified under this | section, this produc | t is Not Applicable | e under this regu |
| SARA Title III Section 313 Unless specific chemicals are | Toxic Chemicals: | - | t is Not Applicable | e under this regu |
| SARA Title III Section 313 Unless specific chemicals are Canadian Regulations: National Pollutant Re | Toxic Chemicals: e identified under this | section, this produc I) | | |
| SARA Title III Section 313 Unless specific chemicals are Canadian Regulations: | Toxic Chemicals: e identified under this | section, this produc | t is Not Applicable Weight percent | e under this regu NPRI ID# |
| SARA Title III Section 313 Unless specific chemicals are Canadian Regulations: National Pollutant Re | Toxic Chemicals: e identified under this | section, this produc I) | Weight | |
| SARA Title III Section 313 ⁷ Unless specific chemicals are Canadian Regulations: <u>National Pollutant Re</u> Chemical Name <u>Phthalocyanine green</u> WHMIS Classification WHMIS Ingredient D CAS-No. | Toxic Chemicals: e identified under this elease Inventory (NPR | section, this produc I) CAS-No. | Weight percent | |
| SARA Title III Section 313 Unless specific chemicals are Canadian Regulations: <u>National Pollutant Re</u> Chemical Name Phthalocyanine green WHMIS Classificatio WHMIS Ingredient D | Toxic Chemicals: e identified under this elease Inventory (NPR black in the second sec | section, this produc I) CAS-No. | Weight percent 1.00 - 5.00 | NPRI ID# |
| SARA Title III Section 313 ⁷ Unless specific chemicals are Canadian Regulations: <u>National Pollutant Re</u> Chemical Name Phthalocyanine green WHMIS Classification WHMIS Ingredient D <u>CAS-No.</u> 1328-53-6 DSL | Toxic Chemicals: e identified under this elease Inventory (NPR black in the second sec | section, this product I) CAS-No. 1328-53-6 ents of this product a | Weight percent 1.00 - 5.00 | NPRI ID# |
| SARA Title III Section 313 ⁷ Unless specific chemicals are Canadian Regulations: <u>National Pollutant Re</u> Chemical Name Phthalocyanine green WHMIS Classificatio WHMIS Ingredient D <u>CAS-No.</u> <u>1328-53-6</u> | Toxic Chemicals: e identified under this elease Inventory (NPR black in the second sec | section, this product I) CAS-No. 1328-53-6 ents of this product a ist (DSL) or are exe | Weight percent 1.00 - 5.00 | NPRI ID# |



MATERIAL SAFETY DATA SHEET 202660 VERDE

Version Number 1.1 Revision Date 03/26/2014 Page 7 of 7 Print Date 4/2/2014

| China IECS | : Not determined |
|-------------------|------------------|
| Europe EINECS | : Not determined |
| Japan ENCS | : Not 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.