PolvOne

MATERIAL SAFETY DATA SHEET **RED PE**

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| POLYONE CORPORATI 33587 Walker Road, Avor | | 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 | : | RED PE |
| Product code | : | CC10154884 |
| Chemical Name | : | Mixture |
| CAS-No. | : | Mixture |
| Product Use | : | Industrial Applications |

| Components | CAS-No. | Weight percent |
|--|------------|----------------|
| Benzenesulfonic acid, 5-chloro-2-[(2- hydroxy-1-naphthalenyl)azo]-4-methyl-, barium salt (2:1) | 5160-02-1 | 1 - 5 |
| 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 | : 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. |

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| Iedical Conditions : None known. | | | |
|--|--|--|--|
| Aggravated by Exposure: | | | |
| | 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 | not applicable not applicable not applicable carbon dioxide blanket, Water spray, Dry powder, Foam. Fullface self-contained breathing apparatus (SCBA) used in positive | | |
| Procedures Unusual Fire/Explosion Hazards | 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 | | |
| 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 | | |



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|-----------------------------------|--|--|--|-------------------------|--|
| Handling | : Take measures to prevent the build up of electrostatic charge. Heat only in areas with appropriate exhaust ventilation. | | | | |
| Storage | | Leep containers dry and tightly c nd contamination. Keep in a dry | dry and tightly closed to avoid moisture absorption on. Keep in a dry, cool place. | | |
| 8.] | EXPOSURE | C CONTROLS/PERSONAL PI | ROTECTION | | |
| Respiratory protection | : N | lo personal respiratory protective | e equipment normally | 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 | afety 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 | | leat only in areas with appropria ppropriate exhaust ventilation at | | . Provide | |
| 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 | |
| | | | | | |

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

: solid

: : RED

pellets

- Evapouration rate Specific Gravity Bulk density Vapour pressure Vapour density pН
- : Not applicable Not determined : : Not established : not applicable : not applicable not applicable :

10. STABILITY AND REACTIVITY

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| Stability | : The product is stable if stored and handled as prescr | ibed |
| Hazardous Polymerization | : Will not occur. | 1000. |
| Conditions to avoid | Keep away from oxidizing agents and open flame. ' decomposition, do not overheat. | To avoid thermal |
| Incompatible Materials | : Incompatible with strong acids and oxidizing agents | 3. |
| Hazardous decomposition products | : Carbon dioxide (CO2), carbon monoxide (CO), oxid (NOx), other hazardous materials, and smoke are all | Ũ |
| | 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 |
|------------|---|------------------|---------------------|
| 5160-02-1 | Benzenesulfonic acid, 5- chloro-2-[(2-hydroxy-1- | Irritant | Eyes, Skin. |
| | naphthalenyl)azo]-4- methyl-, barium salt (2:1) | | |
| 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. |
|-------------------------------|---|--|
| Environmental Toxicity | : | Chemicals are not readily available as they are bound within the polymer matrix. |



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| | |
| 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 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 65 | : WARNING! This product contains a chemical known to the State o California to cause cancer. |
| SARA Title III Section 302 Ext | remely Hazardous Substance |
| Unless specific chemicals are id | lentified under this section, this product is Not Applicable under this regul |

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| | | | |
| | | | |
| SARA Title III Section 313 T | oxic Chemicals: | | |
| | | • • • • • • • • • | A 11 1 1 1 1 1 1 |
| Chemical Name | identified under this section, th | CAS-No. | Applicable under this regulation Weight percent |
| BARIUM COMPOUNDSE | BARIUM COMPOUNDS | 5160-02-1 | 1.00 - 5.00 |
| [EXCEPT BASO4] | | | |
| Canadian Regulations: | | | |
| National Pollutant Rele | ease Inventory (NPRI) | | |
| not applicable | | | |
| WHMIS Classification | n : D2A | | |
| WHMIS Ingredient Di | sclosure List | | |
| CAS-No. | | | |
| 5160-02-1 | | | |
| 150-13-0 | | | |
| DSL | : All components of this Substances List (DSL) of | | e Canadian Domestic |
| National Inventories: | | | |
| Australia AICS | : Listed | | |
| China IECS | : Listed | | |
| Europe EINECS | : Listed | | |
| Japan ENCS | : Listed | | |
| Korea KECI | : Listed | | |
| Philippines PICCS | : Listed | | |
| | 16. OTHER INFORM | IATION | |
| | | | |

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.