

**POLYONE CORPORATION****MATERIAL SAFETY DATA SHEET****CEDAR**Version Number 1.1  
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Print Date 1/12/2012**1. PRODUCT AND COMPANY IDENTIFICATION****POLYONE CORPORATION**  
33587 Walker Road, Avon Lake, OH 44012Telephone : Product Stewardship (770) 271-5902  
Emergency telephone : **CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).**Product name : CEDAR  
Product code : CC10117514  
Chemical Name : Mixture  
CAS-No. : Mixture  
Product Use : Industrial Applications**2. COMPOSITION/INFORMATION ON REGULATED INGREDIENTS**

| Components   | CAS-No.    | Weight percent |
|--|------------|----------------|
| Decanedioic acid, bis(2,2,6,6-tetramethyl-4-piperidinyl) ester | 52829-07-9 | 5 - 10         |
| Titanium dioxide   | 13463-67-7 | 0.1 - 1        |
| Iron oxide   | 1309-37-1  | 1 - 5          |
| Rutile, antimony chromium buff                                 | 68186-90-3 | 5 - 10         |
| Calcium carbonate  | 1317-65-3  | 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

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Skin : eyes.  
: Experience shows no unusual dermatitis hazard from routine handling.

**Chronic exposure** : Refer to Section 11 for Toxicological Information.

**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 : not applicable  
Lower explosion limit : not applicable  
Autoignition temperature : not applicable  
Suitable extinguishing media : Carbon dioxide blanket, Water spray, Dry powder, Foam.

Special Fire Fighting Procedures : Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants.

Unusual Fire/Explosion Hazards : Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), 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. Refer to Section

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13 of this MSDS for proper disposal methods.

**7. HANDLING AND STORAGE**

- 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. 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)

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| 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   |
| Iron oxide                     | 5 mg/m3   | Time Weighted Average (TWA):      | Respirable fraction. | ACGIH    |
|                                | 10 mg/m3  | PEL:                              | Fume.                | OSHA Z1  |
|                                | 5 mg/m3   | Time Weighted Average (TWA):      | as Fe                | MX OEL   |
|                                | 10 mg/m3  | Short Term Exposure Limit (STEL): | as Fe                | MX OEL   |
| Rutile, antimony chromium buff | 0.5 mg/m3 | Recommended exposure limit (REL): | as Cr                | NIOSH    |
|                                | 0.5 mg/m3 | PEL:                              | as Cr                | OSHA Z1  |
|                                | 0.5 mg/m3 | Time Weighted Average (TWA):      | as Sb                | ACGIH    |
|                                | 0.5 mg/m3 | Recommended exposure limit (REL): | as Sb                | NIOSH    |
|                                | 0.5 mg/m3 | PEL:                              | as Sb                | OSHA Z1  |
|                                | 0.5 mg/m3 | Time Weighted Average (TWA):      | as Sb                | OSHA Z1A |
| Titanium dioxide               | 0.5 mg/m3 | Time Weighted Average (TWA):      | as Sb                | MX OEL   |
|                                | 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                | : solid          | Evaporation rate | : Not applicable  |
| Appearance          | : pellets        | Specific Gravity | : Not determined  |
| Colour              | : BROWN          | Bulk density     | : Not established |
| Odour               | : very faint     | Vapour pressure  | : not applicable  |
| Melting point/range | : Not determined | Vapour density   | : not applicable  |
| Boiling Point:      | : not applicable | pH               | : not applicable  |
| Water solubility    | : insoluble      |                  |                   |

**10. STABILITY AND REACTIVITY**

Stability : Stable

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- 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 (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), 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.    | Chemical Name  | Effect           | Target Organ                    |
|------------|--|------------------|---------------------------------|
| 52829-07-9 | Decanedioic acid, bis(2,2,6,6-tetramethyl-4-piperidinyl) ester | Irritant         | Eyes.                           |
| 13463-67-7 | Titanium dioxide   | Systemic effects | Respiratory system.             |
| 1309-37-1  | Iron oxide   | Systemic effects | Respiratory system.             |
| 68186-90-3 | Rutile, antimony chromium buff                                 | Irritant         | Eyes, Skin, Respiratory system. |
| 1317-65-3  | Calcium carbonate  | Irritant         | Eyes, Skin.                     |
|            |  | Systemic effects | Eyes, Skin, 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       |
|------------|--|--------------------------|------------------------------|---------------|
| 52829-07-9 | Decanedioic acid, bis(2,2,6,6-tetramethyl-4-piperidinyl) ester | Oral LD50<br>Dermal LD50 | 3,700 mg/kg<br>> 3,100 mg/kg | rat<br>rabbit |

**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.

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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. 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

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California Proposition : 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

| Chemical Name  | CAS-No.    | Weight percent |
|--|------------|----------------|
| ZINC COMPOUNDS   | 68187-51-9 | 10.00 - 30.00  |
| CHROMIUM III COMPOUNDS<br>CHROMIUM III COMPOUNDS<br>ANTIMONY COMPOUNDS | 68186-90-3 | 5.00 - 10.00   |

Canadian Regulations:

National Pollutant Release Inventory (NPRI)

| Chemical Name                                       | CAS-No.    | Weight percent | NPRI ID# |
|---|------------|----------------|----------|
| Zinc ferrite brown spinel (C.I. Pigment Yellow 119) | 68187-51-9 | 10.00 - 30.00  |          |
| Rutile, antimony chromium buff                      | 68186-90-3 | 5.00 - 10.00   |          |

WHMIS Classification : D2A

WHMIS Ingredient Disclosure List

|            |
|------------|
| CAS-No.    |
| 1309-37-1  |
| 68186-90-3 |

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

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Europe EINECS : Listed  
Japan ENCS : Not determined  
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.