

MATERIAL SAFETY DATA SHEET

IVORY

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1. PRODUCT AND COMPANY IDENTIFICATION

POLYONE CORPORATION 33587 Walker Road, Avon Lake, OH 44012

| NON-EMERGENCY TELEPHONE | : | Product Stewardship (770) 271-5902 | |
|-------------------------------|---|--|--|
| Emergency telephone number | : | CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident). | |
| Product name | : | IVORY | |
| Product code | : | CC10036547 | |
| Chemical Name | : | Mixture | |
| CAS-No. | : | Mixture | |
| Product Use | : | Industrial Applications | |

2. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

| Components | CAS-No. | Weight % |
|--------------------------------|------------|----------|
| Rutile, antimony chromium buff | 68186-90-3 | 0.1 - 1 |
| Silica, amorphous | 7631-86-9 | 1 - 5 |
| 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

| 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 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 see medical attention. |
| | 5. FIRE-FIGHTING MEASURES |
| Flash point | : Not applicable |
| Flammable Limits Upper explosion limit Lower explosion limit Autoignition temperature Suitable extinguishing media Special Fire Fighting Procedures | Not applicable Not applicable Not relevant 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. |
| Unusual Fire/Explosion Hazards | : None |
| | 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 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. |

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| Storage | | eep containers dry and tightly c d contamination. Keep in a dr | | re absorption |
| 8. 1 | EXPOSURE | CONTROLS / PERSONAL F | PROTECTION | |
| Respiratory protection | : N | o personal respiratory protectiv | e equipment normally | required. |
| Eye/Face Protection | : Sa | afety glasses with side-shields. | | |
| Hand protection | : Pr | : Protective gloves. | | |
| Skin and body protection | : Lo | ong sleeved clothing. | | |
| Additional Protective Measures | : Sa | : 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 Exposure limit(s) | | eat only in areas with appropria propriate exhaust ventilation a | | . Provide |
| Components | Value | Exposure time | Exposure type | |
| Rutile, antimony | 1 mg/m3 | | | List: |
| | | PEL: | as Cr | List: OSHA Z1 |
| chromium buff Rutile, antimony | 0.5 mg/m3 | PEL: PEL: | as Cr as Sb | OSHA Z1 |
| chromium buff | 0.5 mg/m3 0.5 mg/m3 | | | |
| chromium buff Rutile, antimony chromium buff Rutile, antimony | _ | PEL: Time Weighted Average | as Sb | OSHA Z1 OSHA Z1 |
| chromium buff Rutile, antimony chromium buff Rutile, antimony chromium buff Rutile, antimony | 0.5 mg/m3 | PEL: Time Weighted Average (TWA): Time Weighted Average | as Sb as Cr | OSHA Z1 OSHA Z1 ACGIH |
| chromium buff Rutile, antimony chromium buff Rutile, antimony chromium buff Rutile, antimony chromium buff Silica, amorphous Silica, amorphous | 0.5 mg/m3 0.5 mg/m3 20 mppcf 20 mppcf | PEL: Time Weighted Average (TWA): Time Weighted Average (TWA): PEL: PEL: PEL: | as Sb as Cr as Sb | OSHA Z1 OSHA Z1 ACGIH ACGIH OSHA Z3 |
| chromium buff Rutile, antimony chromium buff Rutile, antimony chromium buff Rutile, antimony chromium buff Silica, amorphous | 0.5 mg/m3 0.5 mg/m3 20 mppcf | PEL: Time Weighted Average (TWA): Time Weighted Average (TWA): PEL: | as Sb as Cr as Sb Total dust. | OSHA Z1 OSHA Z1 ACGIH ACGIH OSHA |
| chromium buff Rutile, antimony chromium buff Rutile, antimony chromium buff Rutile, antimony chromium buff Silica, amorphous Silica, amorphous | 0.5 mg/m3 0.5 mg/m3 20 mppcf 20 mppcf | PEL: Time Weighted Average (TWA): Time Weighted Average (TWA): PEL: PEL: Time Weighted Average | as Sb as Cr as Sb Total dust. | OSHA Z1 OSHA Z1 ACGIH ACGIH OSHA Z3 |

- Form Appearance Color Odor Melting point/range Boiling Point: Water solubility
- Pellets
 TAN
 Very faint
 Not determined
 Not applicable
 Insoluble
- Evaporation rate Specific Gravity Bulk density Vapor pressure Vapor density pH
- Not applicable.
 Not determined
 Not established
 Not applicable
 Not applicable
 Not applicable



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| | 10. STABILITY AND REACTIVITY |
|----------------------------------|--|
| Stability | : Stable. |
| 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 (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. | Chemical Name | Effect | Target Organ |
|------------|-------------------|------------------|---------------------------------|
| 68186-90-3 | Rutile, antimony | Irritant | Eyes, Skin, Respiratory system. |
| | chromium buff | | |
| 7631-86-9 | Silica, amorphous | Irritant | Eyes, 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 |
|---------|---------------|------|------|-----|
| | | | | |

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.

Additional Health Hazard Information:

Rutile, antimony chromium buff 68186-90-3 Can cause eye irritation. Can cause skin irritation. Symptoms may include redness and burning of skin, and other skin damage. Additional symptoms of skin contact may include: antimony measles (a red, pimply rash).

12. ECOLOGICAL INFORMATION



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| Persistence and degradability | : Not readily biodegradable. |
| Environmental Toxicity | : Chemicals are not readily available as they are bound within the matrix of the polymer. |
| Bioaccumulation Potential | : Chemicals are not readily available as they are bound within the matrix of the polymer. |
| Additional advice | : No data available. |
| | 13. DISPOSAL CONSIDERATIONS |
| Product | : Like most thermoplastics 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 | Defer to specific regulation |
| | Refer to specific regulation.Refer to specific regulation. |
| | |
| IMO / IMDG | : 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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|--|---|---|
| | | |
| SARA Title III Section 302 Extrem | nely Hazardous Substance | |
| Not applicable | | |
| SARA Title III Section 313 Toxic | Chemicals: | |
| Not applicable | | |
| Canadian Regulations: | | |
| WHMIS Classification : | D2B | |
| WHMIS Ingredient Disclos | ure List | |
| CAS-No. 7631-86-9 | | |
| DSL : | All components of this product are on the Car Substances List (DSL) or are exempt. | nadian Domestic |
| National Inventories: | | |
| Australia AICS : | Listed. | |
| China IECS : | Listed. | |
| Europe EINECS : | Not determined. | |
| 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.