PolyOne

MATERIAL SAFETY DATA SHEET GEON EXP DB 15021311304 WHITE 1707

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1. PRODUCT AND COMPANY IDENTIFICATION

POLYONE CORPORATION 33587 Walker Road, Avon Lake, OH 44012

| Telephone Emergency telephone number | : | Product Stewardship (440) 930-1395 CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident). |
|--|---|---|
| Product name | : | GEON EXP DB 15021311304 WHITE 1707 |
| Product code | : | VC10004822 |
| Chemical Name | : | Mixture |
| CAS-No. | : | Mixture |
| Product Use | : | Industrial Applications |

2. COMPOSITION/INFORMATION ON REGULATED INGREDIENTS

| Components | CAS-No. | Weight % |
|-----------------------|------------|----------|
| Calcium carbonate | 471-34-1 | 1 - 5 |
| Dibutyltin mercaptide | 10584-98-2 | 1 - 5 |
| Titanium dioxide | 13463-67-7 | 5 - 10 |

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

This mixture has not been evaluated as a whole. All ingredients are bound and potential for hazardous exposure as shipped is minimal. However, some vapors may be released upon heating or processing. The end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect employees from exposure. See sections 8 and 11 for special precautions. May emit Hydrogen Chloride (HCl) or Carbon Monoxide (CO) under fire conditions.

POTENTIAL HEALTH EFFECTS

| Routes of Exposure: | : Inhalation, Ingestion, Skin contact |
|----------------------------|---|
| Acute exposure | |
| Inhalation Ingestion | Resin particles, like other inert materials, can be mechanically irritating.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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| 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 at 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 Unusual Fire/Explosion Hazards | Not applicable Not applicable Not applicable Carbon dioxide blanket, Water spray, Dry powder, Foamnone. Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants. May emit Hydrogen Chloride (HCl) or Carbon Monoxide (CO) under fire conditions. Carbon dioxide (CO2), carbon monoxide (CO), oxide 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. Refer to Section 1: of this MSDS for proper disposal methods. |
| | 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. Processing fume condensates may contain combustible or toxic residue. Periodically clean hoods, ducts, and other surfaces to minimize accumulation of these materials. |
| Storage | : | Keep containers dry and tightly closed to avoid moisture absorption and contamination. Keep in a dry, cool place. |
| 8. EXF | OSUR | RE CONTROLS / PERSONAL PROTECTION |
| Respiratory protection | : | No personal respiratory protective equipment normally required. If dusty conditions occur wear appropriate respiratory protection. |
| 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. This product may contain residual vinyl chloride monomer (VCM) (CAS number 75-01-4) below 8.5 ppm (0.00085%). It is unlikely, under normal working conditions with adequate ventilation, that the exposure limits will be exceeded for residual VCM. However, the user should take the necessary precautions (e.g. mechanical ventilation, local exhaust ventilation, air-monitoring, respiratory protection, etc.) to ensure airborne levels of any vapors including VCM or dusts that may be released during heating or processing are below regulated levels. |
| Engineering measures | : | Heat only in areas with appropriate exhaust ventilation. Provide appropriate exhaust ventilation at machinery. |
| Exposure limit(s) | | |
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Not applicable

Not determined

Not established

Not applicable

Not applicable

Not applicable

:

:

:

:

:

:

| Components | Value | Exposure time | Exposure type | List: |
|-----------------------|-----------|--------------------------------------|----------------------|---------|
| Calcium carbonate | 10 mg/m3 | Time Weighted Average (TWA): | | ACGIH |
| | 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 |
| Titanium dioxide | 10 mg/m3 | Time Weighted Average (TWA): | | ACGIH |
| | 15 mg/m3 | PEL: | Total dust. | OSHA Z1 |
| | 20 mg/m3 | Short Term Exposure Limit (STEL): | as Ti | MX OEL |
| Dibutyltin mercaptide | 0.1 mg/m3 | Time Weighted Average (TWA): | as Sn | ACGIH |
| | 0.2 mg/m3 | Short Term Exposure Limit (STEL): | as Sn | ACGIH |
| | 0.1 mg/m3 | PEL: | as Sn | OSHA Z1 |
| | 0.1 mg/m3 | Time Weighted Average (TWA): | as Sn | MX OEL |
| | 0.2 mg/m3 | Short Term Exposure Limit (STEL): | as Sn | MX OEL |

9. PHYSICAL AND CHEMICAL PROPERTIES

: Solid

WHITE

: Insoluble

Very faint

:

:

:

:

:

pellets, powder

Not determined

Not applicable

Evaporation rate

Specific Gravity:

Vapour pressure

Vapour density

Bulk density

pН

Form Appearance Color Odour Melting point/range Boiling Point: Water solubility

10. STABILITY AND REACTIVITY

| : | Stable. |
|---|---|
| : | Will not occur. |
| : | Keep away from oxidizing agents and open flame. To avoid thermal decomposition, do not overheat. |
| : | Incompatible with strong acids and oxidizing agents., Avoid contact with acetal homopolymers and acetal copolymers during processing. |
| : | Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), other hazardous materials, and smoke are all possible. Prolonged heating (approximately 30 minutes or more) above 392 °F |
| | : |

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 $(200~^\circ\text{C})$ or short term heating at 482 $^\circ\text{F}$ (250 $^\circ\text{C})$ may result in product decomposition and evolution of carbon monoxide and hydrogen chloride.

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 |
|------------|-----------------------|------------------|---------------------|
| 471-34-1 | Calcium carbonate | Irritant | Eyes, Skin. |
| 10584-98-2 | Dibutyltin mercaptide | Irritant | Eyes, Skin. |
| 13463-67-7 | Titanium dioxide | Systemic effects | 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 |
|----------|-------------------|-----------|-------------|---------|
| 471-34-1 | Calcium carbonate | Oral LD50 | 6,450 mg/kg | rat |

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 | : | Adverse ecological impact is not known or expected under normal use. |
| Bioaccumulation Potential | : | no data available |
| Additional advice | : | Not applicable |
| | | |

13. DISPOSAL CONSIDERATIONS



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| | |
| 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 |
| | Not regulated for transportation. |
| ICAO/IATA (air) | : Not regulated for transportation. |
| IMO / IMDG (maritime) | : Not regulated for transportation. |
| | 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 Hazardou | us Substances (40 CFR 302) |
| Not applicable | |
| California Proposition 65 | a : Not applicable |
| SARA Title III Section 302 E | Extremely Hazardous Substance |
| Unless specific chemicals are | identified under this section, this product is Not Applicable under this regulation |
| | 'oxic Chemicals: |
| SARA Title III Section 313 T | one chemically. |

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Canadian Regulations:

| National Pollutant Release Inventory (NPRI) | | | |
|---|------------|-------------|----------|
| Chemical Name | CAS-No. | Weight % | NPRI ID# |
| Rutile, antimony chromium buff | 68186-90-3 | 0.10 - 1.00 | 69 |
| | | 0.10 - 1.00 | 17 |

WHMIS Classification : D2A

WHMIS Ingredient Disclosure List

| CAS-No. | |
|------------|--|
| 10584-98-2 | |

DSL

All components of this product are on the Canadian Domestic Substances List (DSL) or are exempt.

National Inventories:

| | 16 OTHED INE |
|-------------------|------------------|
| | |
| Philippines PICCS | : Not determined |
| Korea KECI | : Not determined |
| Japan ENCS | : Not determined |
| | |
| Europe EINECS | : Not determined |
| China IECS | : Not determined |
| | |
| Australia AICS | : Not determined |

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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.