

MATERIAL SAFETY DATA SHEET

GEON W3302 GRY 2501

Version Number 1.0
Revision Date 04/17/2002

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1. PRODUCT AND COMPANY IDENTIFICATION

POLYONE CORPORATION
33587 Walker Road, Avon Lake, OH 44012

NON-EMERGENCY TELEPHONE : Product Stewardship (440)-930-1395

Emergency telephone number : **CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).**

Product name : GEON W3302 GRY 2501

Product code : W330200B2501

Chemical Name : Mixture

CAS-No. : Mixture

Product Use : Industrial Applications

2. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

| Components | CAS-No. | Weight % |
|---------------------------------|------------|----------|
| C.I. Pigment Yellow 53 | 8007-18-9 | 0.1 - 1 |
| Quartz | 14808-60-7 | 0.1 - 1 |
| Lead oxide sulfate (Pb4O3(SO4)) | 12202-17-4 | 1 - 5 |
| Titanium dioxide | 13463-67-7 | 1 - 5 |
| Calcium carbonate | 1317-65-3 | 10 - 30 |

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

This mixture has not been evaluated as a whole for health effects. Information provided on health effects of this product is based on the individual components. See Sections 3 and 11 for additional details. This product may contain residual vinyl chloride monomer (VCM) (CAS number 75-01-4) below 8.5 ppm (0.00085%). OSHA considers VCM a suspect carcinogen and regulates it under 29 CFR 1910.1017. It is unlikely, under normal working conditions with adequate ventilation, that OSHA exposure levels will be exceeded for residual VCM. However, it is recommended that the user take 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.

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 : water, dry powder, foam, carbon dioxide (CO₂).

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 : May emit Hydrogen Chloride (HCl) or Carbon Monoxide (CO) under fire conditions.

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 13 of this MSDS for proper disposal methods.

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Print Date 11/4/2011**7. HANDLING AND STORAGE**

- 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. 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: |
|--|------------------------|------------------------------|------------------|---------|
| C.I. Pigment Yellow 53 | 0.2 mg/m ³ | Time Weighted Average (TWA): | as Ni | ACGIH |
| C.I. Pigment Yellow 53 | 1 mg/m ³ | PEL: | as Ni | OSHA Z1 |
| C.I. Pigment Yellow 53 | 0.5 mg/m ³ | Time Weighted Average (TWA): | as Sb | ACGIH |
| C.I. Pigment Yellow 53 | 0.5 mg/m ³ | PEL: | as Sb | OSHA Z1 |
| Calcium carbonate | 10 mg/m ³ | Time Weighted Average (TWA): | Total dust. | ACGIH |
| Calcium carbonate | 5 mg/m ³ | PEL: | Respirable dust. | OSHA Z1 |
| | 15 mg/m ³ | PEL: | Total dust. | OSHA Z1 |
| Lead oxide sulfate (Pb ₄ O ₃ (SO ₄)) | 0.05 mg/m ³ | Time Weighted Average (TWA): | as Pb | ACGIH |
| Lead oxide sulfate (Pb ₄ O ₃ (SO ₄)) | 0.05 mg/m ³ | Time Weighted Average (TWA): | as Pb | OSHA |
| | 0.03 mg/m ³ | OSHA Action level: | as Pb | OSHA |
| Quartz | 0.05 mg/m ³ | Time Weighted Average (TWA): | Respirable dust. | ACGIH |
| Quartz | 0.1 mg/m ³ | PEL: | Respirable dust. | OSHA |
| | 0.3 mg/m ³ | PEL: | Total dust. | OSHA |
| Titanium dioxide | 10 mg/m ³ | Time Weighted Average (TWA): | Total dust. | ACGIH |
| Titanium dioxide | 15 mg/m ³ | PEL: | Total dust. | OSHA Z1 |

9. PHYSICAL AND CHEMICAL PROPERTIES

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

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 (CO ₂), carbon monoxide (CO), oxides of nitrogen (NO _x), other hazardous materials, and smoke are all possible. |

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Prolonged heating (approximately 30 minutes or more) above 392 Deg F (200 deg C) or short term heating at 482 Deg F (250 deg 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 |
|------------|---------------------------------|------------------|--|
| 8007-18-9 | C.I. Pigment Yellow 53 | Irritant | Eyes, Skin. |
| 14808-60-7 | Quartz | Systemic effects | Eyes, Respiratory system. |
| 12202-17-4 | Lead oxide sulfate (Pb4O3(SO4)) | Systemic effects | reproductive system, central nervous system. |
| 13463-67-7 | Titanium dioxide | Systemic effects | Respiratory system. |
| 1317-65-3 | Calcium carbonate | Irritant | Eyes, Skin. |
| | | Systemic effects | Eyes, Skin, 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 |
|------------|---------------------------------|------|------|-----|
| 8007-18-9 | C.I. Pigment Yellow 53 | no | 1 | 2 |
| 14808-60-7 | Quartz | no | 1 | 1 |
| 12202-17-4 | Lead oxide sulfate (Pb4O3(SO4)) | 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.

Additional Health Hazard Information:

Quartz 14808-60-7 This material in its free releasable form may cause respiratory tract irritation, and possibly silicosis which is a scarring of the lungs.

Additional Health Hazard Information:

Lead oxide sulfate (Pb4O3(SO4)) 12202-17-4 Systemic effects include neurotoxic, teratogenic, fetotoxic and reproductive with abdominal pain, anemia, pallor, decreased hand grip strength with characteristic "wrist drop".

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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

| | | |
|------------------------|---|--|
| 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. D.O.T. / CA T.D.G. Classification (Non-bulk ground) | : | Not regulated for transportation. |
| ICAO/IATA | : | Not regulated for transportation. |
| IMO / IMDG | : | 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 the TSCA inventory or are exempt. |
| California Proposition 65 | : | WARNING! This product contains a chemical known in the State of California to cause cancer., WARNING! This product contains a chemical known in the State of California to cause birth defects or other reproductive harm. |

SARA Title III Section 313 Toxic Chemicals:

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| Chemical Name | CAS-No. | Weight % |
|---------------------------|------------|----------|
| NICKEL COMPOUNDS | 8007-18-9 | 0.14 |
| ANTIMONY COMPOUNDS | | |
| LEAD COMPOUNDS, INORGANIC | 12202-17-4 | 1.25 |

Canadian Regulations:

WHMIS Classification : D2A

WHMIS Ingredient Disclosure List

| CAS-No. |
|------------|
| 68412-38-4 |
| 8007-18-9 |
| 1333-86-4 |
| 12202-17-4 |
| 544-63-8 |
| 112-80-1 |
| 14808-60-7 |
| 57-11-4 |

DSL : Listed.

National Inventories:

Australia AICS : Listed.

China IECS : Listed.

Europe EINECS : Not determined.

Japan ENCS : Not determined.

Korea KECI : Not determined.

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.