



# POLYONE CORPORATION

## MATERIAL SAFETY DATA SHEET

### MSDS X155-061-025-04

Version Number 1.0  
Revision Date 01/12/2005

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#### 1. PRODUCT AND COMPANY IDENTIFICATION

**POLYONE CORPORATION**  
33587 Walker Road, Avon Lake, OH 44012

Telephone : Product Stewardship (440) 930-1395  
Emergency telephone number : CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).  
Product name : MSDS X155-061-025-04  
Product code : VC10003257  
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    |
| Titanium dioxide  | 13463-67-7 | 1 - 5    |

#### 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 : 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.

**Medical Conditions** : None known.

**Aggravated by Exposure:**

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**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, foamnone.
- 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. 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 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. Processing fume

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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. 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)

| 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): |                      | ACGIH   |
| Titanium dioxide  | 10 mg/m3 | Time Weighted Average (TWA): |                      | ACGIH   |
|                   | 15 mg/m3 | PEL:                         | Total dust.          | OSHA Z1 |

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Form : Solid  
Evaporation rate : Not applicable  
Appearance : Pellets, powder  
Specific Gravity: : Not determined

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|                     |                  |                |                   |
|---------------------|------------------|----------------|-------------------|
| Color               | : GREY           | Bulk density   | : Not established |
| Odor                | : Very faint     | Vapor 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.

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., Avoid contact with acetal homopolymers and acetal copolymers during processing.

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. Prolonged heating (approximately 30 minutes or more) above 392 °F (200 °C) or short term heating at 482 °F (250 °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.         |
| 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     |

**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

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Additional advice : Not applicable

**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 (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 Hazardous Substances (40 CFR 302)

Not applicable

California Proposition 65 : WARNING! This product contains a chemical known to the State of California to cause cancer.

SARA Title III Section 302 Extremely Hazardous Substance  
Not applicable

SARA Title III Section 313 Toxic Chemicals:

Not applicable

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## Canadian Regulations:

## National Pollutant Release Inventory (NPRI)

| Chemical Name | CAS-No.  | Weight % | NPRI ID# |
|---------------|----------|----------|----------|
| Zinc stearate | 557-05-1 | 0.13     | 231      |

WHMIS Classification : Not controlled.

DSL : DSL status has not been determined. Quantity use in Canada may be restricted by regulations.

## National Inventories:

Australia AICS : Not determined

China IECS : Not determined

Europe EINECS : Not determined

Japan ENCS : Not determined

Korea KECI : Not determined

Philippines PICCS : Not determined

**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 when used in combination with any other materials and/or in any particular process or processing conditions.