

**POLYONE CORPORATION****MATERIAL SAFETY DATA SHEET****LEMON UNIT**Version Number 1.0  
Revision Date 04/12/2005Page 1 of 6  
Print Date 11/17/2011**1. PRODUCT AND COMPANY IDENTIFICATION****POLYONE CORPORATION**  
33587 Walker Road, Avon Lake, OH 44012

Telephone : Product Stewardship (770) 271-5902  
Emergency telephone number : **CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).**

Product name : LEMON UNIT  
Product code : CC10068451  
Chemical Name : Mixture  
CAS-No. : Mixture  
Product Use : Industrial Applications

**2. COMPOSITION/INFORMATION ON REGULATED INGREDIENTS**

| Components                              | CAS-No.     | Weight % |
|---|-------------|----------|
| Silica, amorphous, precipitated and gel | 112926-00-8 | 5 - 10   |
| Calcium carbonate                       | 1317-65-3   | 10 - 30  |
| Titanium dioxide                        | 13463-67-7  | 30 - 60  |

**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. However, some vapors or contaminants 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. See sections 8 and 11 for special precautions.

**POTENTIAL HEALTH EFFECTS****Routes of Exposure:** : Inhalation, Skin contact, Ingestion**Acute exposure**

Inhalation : Resin particles, like other inert materials, can be mechanically irritating.  
Ingestion : May be harmful if swallowed.  
Eyes : Particulates, like other inert materials can be mechanically irritating.  
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:**

**POLYONE CORPORATION**

**MATERIAL SAFETY DATA SHEET**

**LEMON UNIT**

Version Number 1.0  
Revision Date 04/12/2005

Page 2 of 6  
Print Date 11/17/2011

**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 relevant
- 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 : 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.
- Storage : Keep containers dry and tightly closed to avoid moisture absorption

**POLYONE CORPORATION**

**MATERIAL SAFETY DATA SHEET**

**LEMON UNIT**

Version Number 1.0  
Revision Date 04/12/2005

Page 3 of 6  
Print Date 11/17/2011

and contamination. Keep in a dry, cool place.

**8. EXPOSURE 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. Refer to equipment supplier to ensure protection.
- 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)

| 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 |
| Silica, amorphous, precipitated and gel | 10 mg/m3  | Time Weighted Average (TWA): | Dust.                | ACGIH   |
|   | 5 mg/m3   | PEL:                         | Respirable fraction. | OSHA Z1 |
|   | 15 mg/m3  | PEL:                         | Total dust.          | OSHA Z1 |
|   | 0.8 mg/m3 | Time Weighted Average (TWA): |                      | Z3      |
| 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
- Appearance : powder, granular
- Color : YELLOW
- Odor : Very faint
- Melting point/range : Not determined
- Boiling Point: : Not applicable
- Water solubility : Insoluble
- Evaporation rate : Not applicable
- Specific Gravity: : Not applicable
- Bulk density : Not determined
- Vapor pressure : Not applicable
- Vapour density : Not applicable
- pH : Not applicable

**10. STABILITY AND REACTIVITY**

**POLYONE CORPORATION****MATERIAL SAFETY DATA SHEET****LEMON UNIT**Version Number 1.0  
Revision Date 04/12/2005Page 4 of 6  
Print Date 11/17/2011

- Stability : Stable.
- Hazardous Polymerization : Will not occur.
- Conditions to avoid : To avoid thermal decomposition, do not overheat. Keep away from oxidizing agents and open flame.
- 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                    |
|-------------|---|------------------|---------------------------------|
| 112926-00-8 | Silica, amorphous, precipitated and gel | Irritant         | Respiratory system, Eyes.       |
| 1317-65-3   | Calcium carbonate                       | Irritant         | Eyes, Skin.                     |
|             |   | Systemic effects | Eyes, Skin, Respiratory system. |
| 13463-67-7  | Titanium dioxide                        | Systemic effects | Respiratory system.             |

**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 : 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.

**POLYONE CORPORATION**

**MATERIAL SAFETY DATA SHEET**

**LEMON UNIT**

Version Number 1.0  
Revision Date 04/12/2005

Page 5 of 6  
Print Date 11/17/2011

**14. TRANSPORT INFORMATION**

U.S. DOT Classification : Not regulated for transportation.  
ICAO/IATA (air) : 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

California Proposition 65 : This product does not contain a substance listed by California Prop 65.

SARA Title III Section 302 Extremely Hazardous Substance  
Not applicable

SARA Title III Section 313 Toxic Chemicals:

Not applicable  
Canadian Regulations:

National Pollutant Release Inventory (NPRI)

Not applicable

WHMIS Classification : D2B  
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

**POLYONE CORPORATION**

**MATERIAL SAFETY DATA SHEET**

**LEMON UNIT**

Version Number 1.0  
Revision Date 04/12/2005

Page 6 of 6  
Print Date 11/17/2011

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