

MATERIAL SAFETY DATA SHEET

102184LFD RED

Version Number 1.0
Revision Date 05/11/2002

Page 1 of 6
Print Date 11/4/2011

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| 1. PRODUCT AND COMPANY IDENTIFICATION |
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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 : 102184LFD RED

Product code : CC10015944

Chemical Name : Mixture

CAS-No. : Mixture

Product Use : Industrial Applications

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| 2. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS |
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| Components | CAS-No. | Weight % |
|------------------|------------|----------|
| Titanium dioxide | 13463-67-7 | 5 - 10 |
| Zinc stearate | 557-05-1 | 10 - 30 |

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|----------------------------------|
| 3. HAZARDS IDENTIFICATION |
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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 crosslinking 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 : 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:

MATERIAL SAFETY DATA SHEET

102184LFD RED

Version Number 1.0
Revision Date 05/11/2002

Page 2 of 6
Print Date 11/4/2011

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, foam.
- 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 : 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 scoop 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

MATERIAL SAFETY DATA SHEET

102184LFD REDVersion Number 1.0
Revision Date 05/11/2002Page 3 of 6
Print Date 11/4/2011

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
- Hand protection : Protective gloves.
- Skin and body protection : Long sleeved clothing.
- Additional Protective Measures : Safety shoes.
- General Hygiene Considerations : Wash hands and face before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practice for diagnostics.
- 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: |
|------------------|----------------------|------------------------------|----------------------|---------|
| Titanium dioxide | 10 mg/m ³ | Time Weighted Average (TWA): | Total dust. | ACGIH |
| Titanium dioxide | 15 mg/m ³ | PEL: | Total dust. | OSHA Z1 |
| Zinc stearate | 5 mg/m ³ | PEL: | Respirable fraction. | OSHA Z1 |
| | 15 mg/m ³ | PEL: | Total dust. | OSHA Z1 |
| Zinc stearate | 10 mg/m ³ | Time Weighted Average (TWA): | as stearates | ACGIH |

9. PHYSICAL AND CHEMICAL PROPERTIES

- | | | | |
|---------------------|-----------------------|------------------|-------------------|
| Form | : Solid | Evaporation rate | : Not applicable. |
| Appearance | : flakes | Specific Gravity | : Not determined |
| Color | : RED | Bulk density | : Not determined |
| Odor | : Very faint | Vapor pressure | : Not determined |
| Melting point/range | : Greater than 130 °C | Vapor density | : Not determined |
| Boiling Point: | : Not applicable | pH | : Not applicable |
| Water solubility | : Insoluble | | |

10. STABILITY AND REACTIVITY

- Stability : Stable.
- Hazardous Polymerization : Will not occur.

MATERIAL SAFETY DATA SHEET

102184LFD RED

Version Number 1.0
Revision Date 05/11/2002

Page 4 of 6
Print Date 11/4/2011

- Conditions to avoid : 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 (NO_x), dense black smoke.

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 |
|------------|------------------|------------------|---------------------------------|
| 13463-67-7 | Titanium dioxide | Systemic effects | Respiratory system. |
| 557-05-1 | Zinc stearate | Systemic effects | Eyes, Skin, 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 |
|----------|---------------|-----------|------------|---------|
| 557-05-1 | Zinc stearate | Oral LD50 | > 10 gm/kg | rat |

12. ECOLOGICAL INFORMATION

- 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 : Not inherently biodegradable.
- Additional advice : Chemicals are not readily available as they are bound within the matrix of the polymer.

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.

MATERIAL SAFETY DATA SHEET

102184LFD RED

Version Number 1.0
Revision Date 05/11/2002

Page 5 of 6
Print Date 11/4/2011

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

SARA Title III Section 313 Toxic Chemicals:

| Chemical Name | CAS-No. | Weight % |
|----------------|----------|----------|
| ZINC COMPOUNDS | 557-05-1 | 20.00 |

Canadian Regulations:

WHMIS Classification : D2B

WHMIS Ingredient Disclosure List

| CAS-No. |
|-----------|
| 7631-86-9 |
| 557-05-1 |

DSL : Listed.

National Inventories:

Australia AICS : Listed.

China IECS : Listed.

Europe EINECS : Listed.

Japan ENCS : Listed.

MATERIAL SAFETY DATA SHEET

102184LFD RED

Version Number 1.0

Revision Date 05/11/2002

Page 6 of 6

Print Date 11/4/2011

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.