

## MATERIAL SAFETY DATA SHEET

**RED 485C**

Version Number 1.0  
Revision Date 01/24/2003

Page 1 of 6  
Print Date 11/10/2011

<b>1. PRODUCT AND COMPANY IDENTIFICATION</b>
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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 : RED 485C  
 Product code : CC10029932  
 Chemical Name : Mixture  
 CAS-No. : Mixture  
 Product Use : Industrial Applications

<b>2. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS</b>
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Components	CAS-No.	Weight %
Titanium dioxide	13463-67-7	10 - 30

<b>3. HAZARDS IDENTIFICATION</b>
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**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 Aggravated by Exposure:** : None known.

## MATERIAL SAFETY DATA SHEET

**RED 485C**

Version Number 1.0  
Revision Date 01/24/2003

Page 2 of 6  
Print Date 11/10/2011

**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 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

## MATERIAL SAFETY DATA SHEET

**RED 485C**Version Number 1.0  
Revision Date 01/24/2003Page 3 of 6  
Print Date 11/10/2011

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.
- 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:
Titanium dioxide	10 mg/m <sup>3</sup>	Time Weighted Average (TWA):	Dust.	ACGIH
Titanium dioxide	15 mg/m <sup>3</sup>	PEL:	Total dust.	OSHA Z1

**9. PHYSICAL AND CHEMICAL PROPERTIES**

- |                     |                    |                  |                   |
|---------------------|--------------------|------------------|-------------------|
| Form                | : Solid            | Evaporation rate | : Not applicable. |
| Appearance          | : powder, granular | Specific Gravity | : Not applicable. |
| Color               | : RED              | Bulk density     | : Not determined  |
| 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 : To avoid thermal decomposition, do not overheat. Keep away from oxidizing agents and open flame.
- Incompatible Materials : Incompatible with strong acids and oxidizing agents.

## MATERIAL SAFETY DATA SHEET

**RED 485C**

Version Number 1.0  
Revision Date 01/24/2003

Page 4 of 6  
Print Date 11/10/2011

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
13463-67-7	Titanium dioxide	Systemic effects	Respiratory system.

**12. ECOLOGICAL INFORMATION**

Persistence and degradability : Not readily biodegradable.

Environmental Toxicity : Adverse ecological impact is not known or expected under normal use.

Bioaccumulation Potential : Not inherently biodegradable.

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.

**14. TRANSPORT INFORMATION**

U.S. DOT Classification : Not regulated for transportation.

ICAO/IATA : Not regulated for transportation.

IMO / IMDG : Not regulated for transportation.

**15. REGULATORY INFORMATION**

US Regulations:

## MATERIAL SAFETY DATA SHEET

**RED 485C**

Version Number 1.0  
Revision Date 01/24/2003

Page 5 of 6  
Print Date 11/10/2011

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

SARA Title III Section 313 Toxic Chemicals:

Chemical Name	CAS-No.	Weight %
ZINC COMPOUNDS	68187-51-9	01.32

Canadian Regulations:

WHMIS Classification : D2B

WHMIS Ingredient Disclosure List

CAS-No.
150-13-0

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.

Europe EINECS : Not determined.

Japan ENCS : Not determined.

Korea KECI : Listed.

Philippines PICCS : Listed.

<b>16. OTHER INFORMATION</b>
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MATERIAL SAFETY DATA SHEET

**RED 485C**

Version Number 1.0

Revision Date 01/24/2003

Page 6 of 6

Print Date 11/10/2011

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