

### MATERIAL SAFETY DATA SHEET

### RA-0227082 WHITE

 Version Number 1.0
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 Revision Date 02/29/2008
 Print Date 12/4/2011

#### 1. PRODUCT AND COMPANY IDENTIFICATION

#### POLYONE CORPORATION

33587 Walker Road, Avon Lake, OH 44012

Telephone : Product Stewardship (440) 930-1395

Emergency telephone : CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure

or accident).

Product name : RA-0227082 WHITE

Product code : EM10014686 Chemical Name : Mixture CAS-No. : Mixture

Product Use : Industrial Applications

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

| Components       | CAS-No.    | Weight % |
|------------------|------------|----------|
| Carbon black     | 1333-86-4  | 1 - 5    |
| Titanium dioxide | 13463-67-7 | 5 - 10   |

### 3. HAZARDS IDENTIFICATION

#### **EMERGENCY OVERVIEW**

This mixture has not been evaluated as a whole. Information provided on the health effects of this product is based on individual components. All ingredients are bound and potential for hazardous exposure as shipped is minimal. However, some vapors may be released upon heating and the enduser (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 : Particulates, 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:** 



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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.

Do not induce vomiting without medical advice. When symptoms Ingestion

persist or in all cases of doubt seek medical advice.

Rinse immediately with plenty of water, also under the eyelids, for at Eyes

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

Not applicable Upper explosion limit Lower explosion limit Not applicable Autoignition temperature Not applicable :

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

Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen

(NOx), 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.

: Keep containers dry and tightly closed to avoid moisture absorption Storage



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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)

| Components       | Value     | Exposure time             | time Exposure type |         |
|------------------|-----------|---------------------------|--------------------|---------|
| Carbon black     | 3.5 mg/m3 | Time Weighted Average     |                    | ACGIH   |
|                  |           | (TWA):                    |                    |         |
|                  | 3.5 mg/m3 | PEL:                      |                    | OSHA Z1 |
|                  | 3.5 mg/m3 | Time Weighted Average     |                    | MX OEL  |
|                  |           | (TWA):                    |                    |         |
|                  | 7 mg/m3   | Short Term Exposure Limit |                    | MX OEL  |
|                  |           | (STEL):                   |                    |         |
| Titanium dioxide | 10 mg/m3  | Time Weighted Average     |                    | ACGIH   |
|                  |           | (TWA):                    |                    |         |
|                  | 15 mg/m3  | PEL:                      | Total dust.        | OSHA Z1 |
|                  | 10 mg/m3  | Time Weighted Average     | as Ti              | MX OEL  |
|                  |           | (TWA):                    |                    |         |
|                  | 20 mg/m3  | Short Term Exposure Limit | as Ti              | MX OEL  |
|                  |           | (STEL):                   |                    |         |

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Not applicable Form : Solid Evaporation rate : Not determined : pellets, Slabs Appearance Specific Gravity : Not established Color : WHITE Bulk density : Very faint Odour Vapour pressure : Not applicable Melting point/range : Not determined Vapour density : Not applicable Boiling Point: : Not applicable pН : Not applicable

Water solubility : Insoluble



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#### 10. STABILITY AND REACTIVITY

Stability : Stable.

Hazardous Polymerization : Will not occur.

Conditions to avoid : To avoid thermal decomposition, do not overheat.

Incompatible Materials : Strong acids, oxidizing and reducing agents

Hazardous decomposition

products

: Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), 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              |
|------------|------------------|------------------|---------------------------|
| 1333-86-4  | Carbon black     | Systemic effects | Eyes, Respiratory system. |
| 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 |
|-----------|---------------|-------------|----------------|---------|
| 1333-86-4 | Carbon black  | Oral LD50   | > 15,400 mg/kg | rat     |
|           |               | Dermal LD50 | > 3 gm/kg      | rabbit  |

#### Carcinogenicity

This product contains the following components which, in their pure form, have the following carcinogenicity data:

| CAS-No.    | Chemical Name    | OSHA | IARC | NTP |
|------------|------------------|------|------|-----|
| 13463-67-7 | Titanium dioxide | 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:**



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Carbon black 1333-86-4 Carcinogenicity: Many inhalation toxicologists believe that the tumor response observed in the referenced rat studies is species specific and does not correlate to human exposure. However, the IARC evaluation in Monograph Volume 65, issued in April 1996 concluded that, "There is sufficient evidence in experimental animals for the carcinogenicity of carbon black". Based on this evaluation, along with their evaluation of inadequate evidence of carcinogenicity in humans, IARC's overall evaluation is that "Carbon Black is possibly carcinogenic to humans (Group 2B). The IARC 2B listing only pertains to airborne, unbound carbon black particles of respirable size. Carbon Black has not been listed as a carcinogen by the National Toxicology Program (NTP) or the Occupational Safety and Health Administration (OSHA). The National Institute of Occupational Safety and Health (NIOSH) criteria document on carbon black recommends that only carbon black with PAH (polynuclear aromatic hydrocarbon) levels greater than 0.1% be considered suspect carcinogens.

#### 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 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) Refer to specific regulation.

IMO / IMDG (maritime) Refer to specific regulation.

#### 15. REGULATORY INFORMATION

US Regulations:



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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 : Not applicable

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SARA Title III Section 302 Extremely Hazardous Substance

Unless specific chemicals are identified under this section, this product is Not Applicable under this regulation

SARA Title III Section 313 Toxic Chemicals:

Unless specific chemicals are identified under this section, this product is Not Applicable under this regulation

Canadian Regulations:

National Pollutant Release Inventory (NPRI)

Not applicable

WHMIS Classification : D2A

WHMIS Ingredient Disclosure List

CAS-No. 1333-86-4

DSL : All components of this product are on the Canadian Domestic

Substances List (DSL) or are exempt.

National Inventories:

Australia AICS : Not determined

China IECS : Not determined

Europe EINECS : Not determined

Japan ENCS : Not determined



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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 used in combination with any other materials or in any process, unless specified in the text.