## MATERIAL SAFETY DATA SHEET CREAMY HORSERADISH

Version Number 1.1 Revision Date 12/01/2006

Page 1 of 7 Print Date 11/25/2011

### 1. PRODUCT AND COMPANY IDENTIFICATION

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

| Telephone<br>Emergency telephone<br>number | : | Product Stewardship (770) 271-5902<br>CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure<br>or accident). |
|--|---|---|
| Product name                               | : | CREAMY HORSERADISH  |
| Product code                               | : | CC10085034  |
| Chemical Name                              | : | Mixture   |
| CAS-No.                                    | : | Mixture   |
| Product Use                                | : | Industrial Applications   |

### 2. COMPOSITION/INFORMATION ON REGULATED INGREDIENTS

| Components                                  | CAS-No.    | Weight % |
|---|------------|----------|
| Nickel antimony yellow rutile (C.I. Pigment | 8007-18-9  | 5 - 10   |
| Yellow 53)                                  |            |          |
| Titanium dioxide                            | 13463-67-7 | 30 - 60  |

### **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 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<br>Ingestion<br>Eyes | <ul> <li>Resin particles, like other inert materials, can be mechanically irritating.</li> <li>May be harmful if swallowed.</li> <li>Resin particles, like other inert materials, are mechanically irritating to eyes.</li> </ul> |
| Skin                            | : Experience shows no unusual dermatitis hazard from routine handling.  |
| Chronic exposure                | : Refer to Section 11 for Toxicological Information.  |

PolyOne.

# MATERIAL SAFETY DATA SHEET CREAMY HORSERADISH

Version Number 1.1 Revision Date 12/01/2006 Page 2 of 7 Print Date 11/25/2011

| Medical Conditions<br>Aggravated by Exposure:  |  |
|--|--|
|  | 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 or 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 see medical attention.   |
|  | 5. FIRE-FIGHTING MEASURES  |
| Flash point  | : Not applicable   |
| Flammable Limits<br>Upper explosion limit<br>Lower explosion limit<br>Autoignition temperature<br>Suitable extinguishing media | <ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Carbon dioxide blanket, water spray, dry powder, foamnone.</li> </ul>   |
| Special Fire Fighting<br>Procedures<br>Unusual Fire/Explosion<br>Hazards   | <ul> <li>Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants.</li> <li>Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), other hazardous materials, and smoke are all possible.</li> </ul> |
|  | 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 1 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.  |

POLYONE CORPORATION



# MATERIAL SAFETY DATA SHEET CREAMY HORSERADISH

Version Number 1.1 Revision Date 12/01/2006

Storage

Page 3 of 7 Print Date 11/25/2011

: 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<br>Measures | : | Safety shoes.   |
| General Hygiene<br>Considerations | : | Handle in accordance with good industrial hygiene and safety practice.<br>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:   |
|---------------------|-----------|---------------------------|------------------------|---------|
| Nickel antimony     | 1 mg/m3   | PEL:                      | as Ni                  | OSHA Z1 |
| yellow rutile (C.I. |           |                           |                        |         |
| Pigment Yellow 53)  |           |                           |                        |         |
|                     | 0.5 mg/m3 | PEL:                      | as Sb                  | OSHA Z1 |
|                     | 0.5 mg/m3 | Time Weighted Average     | as Sb                  | ACGIH   |
|                     |           | (TWA):                    |                        |         |
|                     | 0.2 mg/m3 | Time Weighted Average     | Inhalable fraction. as | ACGIH   |
|                     |           | (TWA):                    | Ni                     |         |
| Titanium dioxide    | 10 mg/m3  | Time Weighted Average     |                        | ACGIH   |
|                     |           | (TWA):                    |                        |         |
|                     | 15 mg/m3  | PEL:                      | Total dust.            | OSHA Z1 |
|                     | 20 mg/m3  | Short Term Exposure Limit | as Ti                  | MX OEL  |
|                     | _         | (STEL):                   |                        |         |

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Form Appearance Color Odor Melting point/range Boiling Point: Water solubility Solid
Pellets
TAN
Very faint
Not determined
Not applicable
Insoluble

Evaporation rate Specific Gravity: Bulk density Vapor pressure Vapour density pH Not applicable
Not determined
Not established
Not applicable
Not applicable
Not applicable

# MATERIAL SAFETY DATA SHEET CREAMY HORSERADISH

Version Number 1.1 Revision Date 12/01/2006 Page 4 of 7 Print Date 11/25/2011

|                                  | 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.   |  |  |  |
| 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:

| C.      | AS-No. | Chemical Name  | Effect           | Target Organ        |
|---------|--------|--|------------------|---------------------|
| 8007-18 | 3-9    | Nickel antimony yellow<br>rutile (C.I. Pigment Yellow<br>53) | Irritant         | Eyes, Skin.         |
|         |        |  | sensitizer       | Skin.               |
| 13463-6 | 57-7   | Titanium dioxide   | Systemic effects | Respiratory system. |

Carcinogenicity

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

| CAS-No.    | Chemical Name                 | OSHA | IARC | NTP |
|------------|-------------------------------|------|------|-----|
| 8007-18-9  | Nickel antimony yellow rutile | no   | 1    | no  |
|            | (C.I. Pigment Yellow 53)      |      |      |     |
| 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:

<u>PolyOne</u>

# MATERIAL SAFETY DATA SHEET CREAMY HORSERADISH

Version Number 1.1 Revision Date 12/01/2006 Page 5 of 7 Print Date 11/25/2011

Nickel antimony yellow rutile (C.I. Pigment Yellow 53) 8007-18-9 Skin sensitizer "nickel itch", with pulmonary, brain, liver, kidney and muscle effects.

|                               | 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                       | : Like most thermoplastic plastics the product can be recycled. Where<br>possible recycling is preferred to disposal or incineration. The<br>generator of waste material has the responsibility for proper waste<br>classification, transportation and disposal in accordance with<br>applicable federal, state/provincial and local regulations. |
| Contaminated packaging        | : Recycling is preferred when possible. The generator of waste materi<br>has the responsibility for proper waste classification, transportation<br>and disposal in accordance with applicable federal, state/provincial<br>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:               |   |
| OSHA Status                   | : Classified as hazardous based on components.  |
| TSCA Status                   | : All components of this product are listed on or exempt from the TSC Inventory.  |
| US. EPA CERCLA Hazardous      | Substances (40 CFR 302)   |
| Not applicable                |   |
|                               |   |
|                               |   |

olvUn<u>e</u>

# MATERIAL SAFETY DATA SHEET CREAMY HORSERADISH

Version Number 1.1 Revision Date 12/01/2006 Page 6 of 7 Print Date 11/25/2011

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

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

| Chemical Name                      | CAS-No.    | Weight %     |
|------------------------------------|------------|--------------|
| NICKEL COMPOUNDSANTIMONY COMPOUNDS | 8007-18-9  | 5.00 - 10.00 |
| ZINC COMPOUNDS                     | 12063-19-3 | 1.00 - 5.00  |

Canadian Regulations:

National Pollutant Release Inventory (NPRI)

| Chemical Name   | CAS-No.    | Weight %     | NPRI ID# |
|---|------------|--------------|----------|
| Aluminum oxide  | 1344-28-1  | 0.10 - 1.00  | 13       |
| Nickel antimony yellow rutile (C.I. Pigment<br>Yellow 53) | 8007-18-9  | 5.00 - 10.00 | 168      |
|   |            | 5.00 - 10.00 | 17       |
| Zinc iron oxide   | 12063-19-3 | 1.00 - 5.00  | 231      |

WHMIS Classification : D2A

WHMIS Ingredient Disclosure List

| CAS-No.   |  |
|-----------|--|
| 8007-18-9 |  |

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  | : | Listed |

:

PolyOne

## MATERIAL SAFETY DATA SHEET CREAMY HORSERADISH

Version Number 1.1 Revision Date 12/01/2006 Page 7 of 7 Print Date 11/25/2011

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