

## MATERIAL SAFETY DATA SHEET

**83701420 CLEAR HOT DIP**

Version Number 1.0  
Revision Date 12/04/2002

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Print Date 11/7/2011

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| <b>1. PRODUCT AND COMPANY IDENTIFICATION</b> |
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**POLYONE CORPORATION**  
2700 Papin Street, St. Louis, MO 63103

NON-EMERGENCY TELEPHONE : Product Stewardship, (314) 771-1800

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

Product name : 83701420 CLEAR HOT DIP

Product code : FO00002314

Chemical Name : Mixture

CAS-No. : Mixture

Product Use : Industrial Applications

|  |
|--|
| <b>2. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS</b> |
|--|

| Components | CAS-No.   | Weight % |
|------------|-----------|----------|
| Cadmium    | 7440-43-9 | 0.1 - 1  |

|                                  |
|----------------------------------|
| <b>3. HAZARDS IDENTIFICATION</b> |
|----------------------------------|

**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 : Inhalation of airborne droplets may cause irritation of the respiratory tract.

Ingestion : May be harmful if swallowed.

Eyes : May cause eye/skin irritation.

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.
- 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 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 : No data available.
- Flammable Limits  
     Upper explosion limit : No data available.  
     Lower explosion limit : No data available.
- Autoignition temperature : Not applicable.
- Suitable extinguishing media : Carbon dioxide blanket, dry powder, foam, Water spray.
- 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 : May emit Hydrogen Chloride (HCl) or Carbon Monoxide (CO) under fire conditions.

**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 : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Package all material in appropriate container for disposal. Refer to Section 13 of this MSDS for proper disposal methods.

**7. HANDLING AND STORAGE**

- Handling : Heat only in areas with appropriate exhaust ventilation. Processing fume condensates may contain combustible or toxic residue. Periodically clean hoods, ducts, and other surfaces to minimize

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accumulation of these materials.

Storage : Keep containers dry and tightly closed to avoid moisture absorption and contamination. Store in a cool dry place.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Respiratory protection : Under normal handling conditions a respirator may not be 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                   | Exposure type                 | List: |
|------------|----------------------------|---------------------------------|-------------------------------|-------|
| Cadmium    | 0.01<br>mg/m <sup>3</sup>  | Time Weighted Average<br>(TWA): | Inhalable fraction. as<br>Cd  | ACGIH |
|            | 0.002<br>mg/m <sup>3</sup> | Time Weighted Average<br>(TWA): | Respirable fraction. as<br>Cd | ACGIH |
| Cadmium    | 0.005<br>mg/m <sup>3</sup> | Time Weighted Average<br>(TWA): | Total as Cd                   | OSHA  |

**9. PHYSICAL AND CHEMICAL PROPERTIES**

|                     |                   |                  |                   |
|---------------------|-------------------|------------------|-------------------|
| Form                | : Liquid          | Evaporation rate | : Not established |
| Appearance          | : Viscous, Liquid | Specific Gravity | : Not determined  |
| Color               | : NO PIGMENT      | Bulk density     | : Not applicable. |
| Odor                | : Very faint      | Vapor pressure   | : Not determined  |
| Melting point/range | : Not applicable  | Vapor density    | : Not determined  |
| Boiling Point:      | : Not applicable  | pH               | : Not applicable. |
| Water solubility    | : Immiscible      |                  |                   |

**10. STABILITY AND REACTIVITY**

Stability : Stable.

Hazardous Polymerization : Will not occur.

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- 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. Avoid contact with acetal homopolymers and acetal copolymers during processing.
- Hazardous decomposition products : Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), hydrogen chloride (HCl), other hazardous materials, and smoke are all possible. Prolonged heating may result in product degradation. As a general rule of thumb, degradation begins to occur after one hour at 177 °C (350 °F), after 10 minutes at 204 °C (400 °F), and within 5 minutes at 232 °C (450 °F).

**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   |
|-----------|---------------|------------------|--|
| 7440-43-9 | Cadmium       | Systemic effects | Respiratory system, blood and blood forming system, Kidney, urinary system, reproductive system. |
|           |               | Highly Toxic     | Refer to LC50 / LD50 Data on MSDS..  |

## 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    |
|-----------|---------------|-------------------|-------------------------------------|------------|
| 7440-43-9 | Cadmium       | LC50<br>Oral LD50 | 25 mg/m <sup>3</sup><br>2,330 mg/kg | rat<br>rat |

## Carcinogenicity:

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

| CAS-No.   | Chemical Name | OSHA | IARC | NTP |
|-----------|---------------|------|------|-----|
| 7440-43-9 | Cadmium       | yes  | 1    | 1   |

## 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.

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2 - The component is reasonably anticipated to be a human carcinogen.

**Additional Health Hazard Information:**

**Cadmium 7440-43-9 Can produce rapid and sometimes fatal pulmonary edema, chronic absorption leads to liver and kidney damage.**

**12. ECOLOGICAL INFORMATION**

Persistence and degradability : Not readily biodegradable.

Environmental Toxicity : Environmental toxicity has not been established for this mixture as a whole.

Bioaccumulation Potential : No data available.

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 : Refer to specific regulation.

ICAO/IATA : Refer to specific regulation.

IMO / IMDG : 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)

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| Chemical Name | CAS-No.   | % in Product | RQ for component | RQ for Mixture/Product |
|---------------|-----------|--------------|------------------|------------------------|
| Cadmium       | 7440-43-9 | 0.1117       | 010 lbs          | 8,953 LB               |

California Proposition 65 : WARNING! This product contains a chemical known to the State of California to cause cancer., WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

## SARA Title III Section 313 Toxic Chemicals:

| Chemical Name | CAS-No.   | Weight % |
|---------------|-----------|----------|
| CADMIUM       | 7440-43-9 | 00.11    |

## Canadian Regulations:

WHMIS Classification : D1A

## WHMIS Ingredient Disclosure List

| CAS-No.   |
|-----------|
| 7440-43-9 |
| 95-63-6   |

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.

Korea KECI : Listed.

Philippines PICCS : Not determined.

**16. OTHER INFORMATION**

POLYONE CORPORATION



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