

## 5050 421 GENERAL PURPOSE PLAST

Version Number 1.0

Page 1 of 7

Revision Date 02/18/2003

Print Date 11/10/2011

### 1. PRODUCT AND COMPANY IDENTIFICATION

#### 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 : 5050 421 GENERAL PURPOSE PLAST

Product code : FO00000270

Chemical Name : Mixture

CAS-No. : Mixture

Product Use : Industrial Applications

### 2. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

Components	CAS-No.	Weight %
Prop00005- Misc Zinc Cpd's	Proprietary	1 - 5
Carbon black	1333-86-4	1 - 5
Prop00008- Misc. Barium Cpd's	Proprietary	1 - 5

### 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

This product has not been evaluated as a whole for health effects. Information provided on the health effects of this product is based on individual components. In addition, 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 : Contact with eyes may cause irritation.  
 Skin : Experience shows no unusual dermatitis hazard from routine handling.

Chronic exposure : Refer to Section 11 for Toxicological Information.

## MATERIAL SAFETY DATA SHEET

**5050 421 GENERAL PURPOSE PLAST**

Version Number 1.0

Page 2 of 7

Revision Date 02/18/2003

Print Date 11/10/2011

**Medical Conditions** : None known.  
**Aggravated by Exposure:**

**4. FIRST AID MEASURES**

**Inhalation** : Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. Seek medical attention after significant exposure.

**Ingestion** : Do not induce vomiting without medical advice. Seek medical attention if necessary.

**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** : No data available.

**Suitable extinguishing media** : dry powder, foam, carbon dioxide (CO<sub>2</sub>), Water spray can be used to cool fire exposed surfaces..

**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** : 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**

## MATERIAL SAFETY DATA SHEET

**5050 421 GENERAL PURPOSE PLAST**

Version Number 1.0

Page 3 of 7

Revision Date 02/18/2003

Print Date 11/10/2011

- Handling : Heat only in areas with appropriate exhaust ventilation.
- 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:
Carbon black	3.5 mg/m <sup>3</sup>	Time Weighted Average (TWA):	Total dust. as carbon black	ACGIH
Carbon black	3.5 mg/m <sup>3</sup>	PEL:	Total dust. as carbon black	OSHA Z1
Prop00008- Misc. Barium Cpd's	0.5 mg/m <sup>3</sup>	Time Weighted Average (TWA):	as Ba	ACGIH
Prop00008- Misc. Barium Cpd's	0.5 mg/m <sup>3</sup>	PEL:	as Ba	OSHA Z1

**9. PHYSICAL AND CHEMICAL PROPERTIES**

- |                     |                      |                  |                    |
|---------------------|----------------------|------------------|--------------------|
| Form                | : Liquid             | Evaporation rate | : Negligible       |
| Appearance          | : Viscous, Liquid    | Specific Gravity | : Not determined   |
| Color               | : NO PIGMENT         | Bulk density     | : Not applicable.  |
| Odor                | : Very faint         | Vapor pressure   | : <2 mm Hg @ 250 C |
| Melting point/range | : Not applicable     | Vapor density    | : Not determined   |
| Boiling Point:      | : No data available. | pH               | : Not applicable.  |
| Water solubility    | : No data available. |                  |                    |

**10. STABILITY AND REACTIVITY**

- Stability : Stable.

## MATERIAL SAFETY DATA SHEET

**5050 421 GENERAL PURPOSE PLAST**

Version Number 1.0

Page 4 of 7

Revision Date 02/18/2003

Print Date 11/10/2011

Hazardous Polymerization : Will not occur.

Conditions to avoid : Keep away from oxidizing agents and open flame.

Incompatible Materials : Incompatible with strong acids and oxidizing agents.

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
1333-86-4	Carbon black	Systemic effects	Eyes, 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
1333-86-4	Carbon black	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:**

## 5050 421 GENERAL PURPOSE PLAST

Version Number 1.0

Page 5 of 7

Revision Date 02/18/2003

Print Date 11/10/2011

**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). 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 : Adverse ecological impact is not known or expected under normal use.

Bioaccumulation Potential : Does not bioaccumulate.

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.

## MATERIAL SAFETY DATA SHEET

**5050 421 GENERAL PURPOSE PLAST**

Version Number 1.0

Page 6 of 7

Revision Date 02/18/2003

Print Date 11/10/2011

US. EPA CERCLA Hazardous Substances (40 CFR 302)

Not applicable

California Proposition 65 : WARNING! This product contains a chemical known to the State of California to cause cancer.

SARA Title III Section 302 Extremely Hazardous Substance

Not applicable

SARA Title III Section 313 Toxic Chemicals:

Chemical Name	CAS-No.	Weight %
ZINC COMPOUNDS	Proprietary	03.00
BARIUM COMPOUNDS	Proprietary	03.00

Canadian Regulations:

WHMIS Classification : D2A

WHMIS Ingredient Disclosure List

CAS-No.
1333-86-4
Proprietary

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.

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MATERIAL SAFETY DATA SHEET

**5050 421 GENERAL PURPOSE PLAST**

Version Number 1.0

Revision Date 02/18/2003

Page 7 of 7

Print Date 11/10/2011

**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.