

MATERIAL SAFETY DATA SHEET

DYE BLACK

 Version Number 1.1
 Page 1 of 6

 Revision Date 05/31/2007
 Print Date 11/29/2011

1. PRODUCT AND COMPANY IDENTIFICATION

POLYONE CORPORATION

33587 Walker Road, Avon Lake, OH 44012

Telephone : Product Stewardship (770) 271-5902

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

or accident).

Product name : DYE BLACK
Product code : CC10078300
Chemical Name : Mixture
CAS-No. : Mixture

Product Use : Industrial Applications

2. COMPOSITION/INFORMATION ON REGULATED INGREDIENTS

| Components | CAS-No. | Weight % |
|---|-------------|----------|
| Caprolactam | 105-60-2 | 1 - 5 |
| Silica, amorphous, precipitated and gel | 112926-00-8 | 1 - 5 |

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 : Resin particles, like other inert materials, can be mechanically irritating.

Ingestion : May be harmful if swallowed.

Eyes : Resin particles, like other inert materials, are mechanically irritating to

eves

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:



MATERIAL SAFETY DATA SHEET

DYE BLACK

Version Number 1.1 Page 2 of 6 Print Date 11/29/2011 Revision Date 05/31/2007

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



MATERIAL SAFETY DATA SHEET

DYE BLACK

 Version Number 1.1
 Page 3 of 6

 Revision Date 05/31/2007
 Print Date 11/29/2011

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 : Ha

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: |
|----------------------|-----------|---------------------------|------------------------|--------|
| Caprolactam | 5 mg/m3 | Time Weighted Average | Inhalable fraction and | ACGIH |
| | | (TWA): | vapor | |
| | 1 mg/m3 | Time Weighted Average | Dust. | MX OEL |
| | | (TWA): | | |
| | 5 ppm 20 | Time Weighted Average | Vapor. | MX OEL |
| | mg/m3 | (TWA): | | |
| | 3 mg/m3 | Short Term Exposure Limit | Dust. | MX OEL |
| | | (STEL): | | |
| | 10 ppm 40 | Short Term Exposure Limit | Vapor. | MX OEL |
| | mg/m3 | (STEL): | | |
| Silica, amorphous, | 10 mg/m3 | Time Weighted Average | | MX OEL |
| precipitated and gel | | (TWA): | | |
| | 0.8 mg/m3 | Time Weighted Average | | Z3 |
| | _ | (TWA): | | |

9. PHYSICAL AND CHEMICAL PROPERTIES

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

Water solubility : Insoluble



MATERIAL SAFETY DATA SHEET

DYE BLACK

Version Number 1.1 Page 4 of 6
Revision Date 05/31/2007 Print Date 11/29/2011

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:

| CAS-No. | Chemical Name | Effect | Target Organ | |
|-------------|----------------------|------------------|---------------------------------|--|
| 105-60-2 | Caprolactam | Irritant | Skin, Respiratory system. | |
| | | Systemic effects | Eyes, Skin, Respiratory system, | |
| | | | Liver, Kidney, central nervous | |
| | | | system (CNS), heart or | |
| | | | circulatory system. | |
| 112926-00-8 | Silica, amorphous, | Irritant | Respiratory system, Eyes. | |
| | precipitated and gel | | | |

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 |
|----------|---------------|-------------|-------------|---------|
| 105-60-2 | Caprolactam | LC50 | 300 mg/m3 | rat |
| | | Oral LD50 | 1,210 mg/kg | rat |
| | | Dermal LD50 | 1410 ul/kg | rabbit |

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.



MATERIAL SAFETY DATA SHEET

DYE BLACK

 Version Number 1.1
 Page 5 of 6

 Revision Date 05/31/2007
 Print Date 11/29/2011

Additional advice : No data available

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:

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 : WARNING! This product contains a chemical known to the State of

65 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

Chemical Name CAS-No. % in Product RQ for component



MATERIAL SAFETY DATA SHEET

DYE BLACK

 Version Number 1.1
 Page 6 of 6

 Revision Date 05/31/2007
 Print Date 11/29/2011

| Aniline | 62-53-3 | 0.10 - 1.00 | 5,000 lbs |
|---------|---------|-------------|-----------|
| | | | |

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)

| Chemical Name | CAS-No. | Weight % | NPRI ID# |
|---------------|---------|-------------|----------|
| Aniline | 62-53-3 | 0.10 - 1.00 | 15 |

WHMIS Classification : D1A

WHMIS Ingredient Disclosure List

| CAS-No. |
|-------------|
| 105-60-2 |
| 112926-00-8 |

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 : Listed

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.