

MATERIAL SAFETY DATA SHEET

RED

Version Number 1.0
Revision Date 02/06/2003

Page 1 of 7
Print Date 11/10/2011

1. PRODUCT AND COMPANY IDENTIFICATION

POLYONE CORPORATION
33587 Walker Road, Avon Lake, OH 44012

NON-EMERGENCY TELEPHONE : Product Stewardship (770) 271-5902
Emergency telephone number : **CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).**

Product name : RED
 Product code : CC10030876
 Chemical Name : Mixture
 CAS-No. : Mixture
 Product Use : Industrial Applications

2. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

Components	CAS-No.	Weight %
Iron oxide	1309-37-1	1 - 5
Benzoic acid, 2-[(2-hydroxy-3,6-disulfo-1-naphthalenyl)azo]-, barium salt (2:3)	15782-06-6	5 - 10
Titanium dioxide	13463-67-7	5 - 10
Benzenesulfonic acid, 5-chloro-4-ethyl-2-[(2-hydroxy-1-naphthalenyl)azo]-, barium salt (2:1)	67801-01-8	10 - 30

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 eyes.

MATERIAL SAFETY DATA SHEET

RED

Version Number 1.0
Revision Date 02/06/2003

Page 2 of 7
Print Date 11/10/2011

Skin : Experience shows no unusual dermatitis hazard from routine handling.

Chronic exposure : Refer to Section 11 for Toxicological Information.

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

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, 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 seek medical attention.

5. FIRE-FIGHTING MEASURES

Flash point : Not applicable

Flammable Limits

Upper explosion limit : Not applicable

Lower explosion limit : Not applicable

Autoignition temperature : Not relevant

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 : 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 : 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.

MATERIAL SAFETY DATA SHEET

REDVersion Number 1.0
Revision Date 02/06/2003Page 3 of 7
Print Date 11/10/2011**7. HANDLING AND STORAGE**

- Handling : Take measures to prevent the build up of electrostatic charge. Heat only in areas with appropriate exhaust ventilation.
- Storage : 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 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)

MATERIAL SAFETY DATA SHEET

REDVersion Number 1.0
Revision Date 02/06/2003Page 4 of 7
Print Date 11/10/2011

Components	Value	Exposure time	Exposure type	List:
Benzenesulfonic acid, 5-chloro-4-ethyl-2-[(2-hydroxy-1-naphthalenyl)azo]-, barium salt (2:1)	0.5 mg/m ³	PEL:	as Ba	OSHA Z1
Benzenesulfonic acid, 5-chloro-4-ethyl-2-[(2-hydroxy-1-naphthalenyl)azo]-, barium salt (2:1)	0.5 mg/m ³	Time Weighted Average (TWA):	as Ba	ACGIH
Benzoic acid, 2-[(2-hydroxy-3,6-disulfo-1-naphthalenyl)azo]-, barium salt (2:3)	0.5 mg/m ³	PEL:	as Ba	OSHA Z1
Benzoic acid, 2-[(2-hydroxy-3,6-disulfo-1-naphthalenyl)azo]-, barium salt (2:3)	0.5 mg/m ³	Time Weighted Average (TWA):	as Ba	ACGIH
Iron oxide	5 mg/m ³	Time Weighted Average (TWA):	Dust and fume. as Fe	ACGIH
Titanium dioxide	10 mg/m ³	Time Weighted Average (TWA):	Dust.	ACGIH
Titanium dioxide	15 mg/m ³	PEL:	Total dust.	OSHA Z1

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: Solid	Evaporation rate	: Not applicable.
Appearance	: Pellets	Specific Gravity	: Not determined
Color	: RED	Bulk density	: Not established
Odor	: Very faint	Vapor pressure	: Not applicable
Melting point/range	: Not determined	Vapor density	: Not applicable
Boiling Point:	: Not applicable	pH	: Not applicable
Water solubility	: Insoluble		

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 (CO ₂), carbon monoxide (CO), oxides of nitrogen (NO _x), other hazardous materials, and smoke are all possible.

11. TOXICOLOGICAL INFORMATION

MATERIAL SAFETY DATA SHEET

RED

Version Number 1.0
Revision Date 02/06/2003

Page 5 of 7
Print Date 11/10/2011

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
1309-37-1	Iron oxide	Systemic effects	Respiratory system.
15782-06-6	Benzoic acid, 2-[(2-hydroxy-3,6-disulfo- 1-naphthalenyl)azo]-, barium salt (2:3)	Irritant	Eyes, Skin.
13463-67-7	Titanium dioxide	Systemic effects	Respiratory system.
67801-01-8	Benzenesulfonic acid, 5-chloro-4-ethyl-2-[(2-hyd roxy-1-naphthalenyl)azo]-, barium salt (2:1)	Irritant	Eyes, Skin.

12. ECOLOGICAL INFORMATION

- Persistence and degradability : Not readily biodegradable.
- Environmental Toxicity : Chemicals are not readily available as they are bound within the matrix of the polymer.
- Bioaccumulation Potential : Chemicals are not readily available as they are bound within the matrix of the polymer.
- Additional advice : No data available.

13. DISPOSAL CONSIDERATIONS

- Product : Like most thermoplastics 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 : Refer to specific regulation.
- ICAO/IATA : Refer to specific regulation.

MATERIAL SAFETY DATA SHEET

RED

Version Number 1.0
Revision Date 02/06/2003

Page 6 of 7
Print Date 11/10/2011

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)

Not applicable

California Proposition : This product does not contain a substance listed by California Prop 65.

SARA Title III Section 313 Toxic Chemicals:

Chemical Name	CAS-No.	Weight %
BARIUM COMPOUNDS [EXCEPT BASO4]	67801-01-8	12.12
BARIUM COMPOUNDS [EXCEPT BASO4]	15782-06-6	06.61

Canadian Regulations:

WHMIS Classification : D2B

WHMIS Ingredient Disclosure List

CAS-No.
67801-01-8
15782-06-6
1309-37-1

DSL : All components of this product are on the Canadian Domestic Substances List (DSL) or are exempt.

National Inventories:

Australia AICS : Not determined.

MATERIAL SAFETY DATA SHEET

RED

Version Number 1.0
Revision Date 02/06/2003

Page 7 of 7
Print Date 11/10/2011

China IECS : Not determined.
Europe EINECS : Not determined.
Japan ENCS : Not determined.
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.