

#### MATERIAL SAFETY DATA SHEET

# FREEDOM

Version Number 1.1 Revision Date 08/19/2002 Page 1 of 7 Print Date 11/5/2011

## 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	:	FREEDOM
Product code	:	CC10021474
Chemical Name	:	Mixture
CAS-No.	:	Mixture
Product Use	:	Industrial Applications

# 2. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

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

## **3. HAZARDS IDENTIFICATION**

#### **EMERGENCY OVERVIEW**

This mixture has not been evaluated as a whole. 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

<b>Routes of Exposure:</b>	: 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.		
Skin	: Experience shows no unusual dermatitis hazard from routine handling.		





#### FREEDOM Version Number 1.1 Page 2 of 7 Revision Date 08/19/2002 Print Date 11/5/2011 **Chronic exposure** : Refer to Section 11 for Toxicological Information. : None known. **Medical Conditions** 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 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 : Fullface self-contained breathing apparatus (SCBA) used in positive Procedures pressure mode should be worn to prevent inhalation of airborne contaminants. Unusual Fire/Explosion : None Hazards 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. Clean up promptly by sweeping or vacuum. Package all material in Methods for cleaning up : plastic, cardboard or metal containers for disposal. Refer to Section 13 of this MSDS for proper disposal methods. 7. HANDLING AND STORAGE

## MATERIAL SAFETY DATA SHEET



FREEDOM					
Version Number 1.1 Revision Date 08/19/2002		Page 3 of 7 Print Date 11/5/2011			
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. EXI	POSUF	RE 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

# **FREEDOM**

Version Number 1.1 Revision Date 08/19/2002

Components	Value	Exposure time	Exposure type	List:
Benzenesulfonic acid, 5-chloro-4-ethyl-2-[(2- hydroxy-1-naphthalen yl)azo]-, barium salt (2:1)	0.5 mg/m3	PEL:	as Ba	OSHA Z1
Benzenesulfonic acid, 5-chloro-4-ethyl-2-[(2- hydroxy-1-naphthalen yl)azo]-, barium salt (2:1)	0.5 mg/m3	Time Weighted Average (TWA):		ACGIH
Benzoic acid, 2-[(2-hydroxy-3,6-disu lfo-1-naphthalenyl)azo ]-, barium salt (2:3)	0.5 mg/m3	PEL:	as Ba	OSHA Z1
Benzoic acid, 2-[(2-hydroxy-3,6-disu lfo-1-naphthalenyl)azo ]-, barium salt (2:3)	0.5 mg/m3	Time Weighted Average (TWA):		ACGIH
Titanium dioxide	10 mg/m3	Time Weighted Average (TWA):	Total dust.	ACGIH
Titanium dioxide	15 mg/m3	PEL:	Total dust.	OSHA Z1

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

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

Evaporation rate Specific Gravity Bulk density Vapor pressure Vapor density pH

- : Not applicable.
- : Not determined
- : Not established
- : Not applicable
- : Not applicable
- : Not applicable
- **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 Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen : (NOx), other hazardous materials, and smoke are all possible. products
  - 11. TOXICOLOGICAL INFORMATION
    - 4/7

#### Page 4 of 7 Print Date 11/5/2011



## MATERIAL SAFETY DATA SHEET

# FREEDOM

Version Number 1.1 Revision Date 08/19/2002 Page 5 of 7 Print Date 11/5/2011

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

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 / CA TDG Classification	: Not regulated for transportation.
ICAO/IATA	: Not regulated for transportation.



# MATERIAL SAFETY DATA SHEET

FREEDOM				
Version Number 1.1 Revision Date 08/19/2002			Print D	Page 6 of 7 ate 11/5/2011
IMO / IMDG	: Not regulated for	transportation.		
	15. REGULATORY	INFORMATION	N	
US Regulations:				
OSHA Status	: Classified as haza	ardous based on co	mponents.	
TSCA Status	: All components of this product are listed on the TSCA inventory or are exempt.			
US. EPA CERCLA Hazardous S	Substances (40 CFR 30	)2)		
Not applicable				
California Proposition 65	: This product does	s not contain a subs	tance listed by Califor	rnia Prop 65.
SARA Title III Section 313 Tox	ic Chemicals:			
Chemical Name		CAS-No.	Weight %	]
BARIUM COMF BASO4]	POUNDS [EXCEPT	67801-01-8	04.07	
	POUNDS [EXCEPT	15782-06-6	03.96	-
Canadian Regulations:				J
WHMIS Classification	: D2B			
WHMIS Ingredient Discl				
CAS-No. 67801-01-8 15782-06-6				
DSL	: Listed.			
National Inventories:				
Australia AICS	: Not determined.			
China IECS	: Not determined.			
Europe EINECS	: Not determined.			



#### MATERIAL SAFETY DATA SHEET

# FREEDOM

Version Number 1.1 Revision Date 08/19/2002 Page 7 of 7 Print Date 11/5/2011

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.