

**POLYONE CORPORATION****MATERIAL SAFETY DATA SHEET****5050 326 MASTERBATCH #5**Version Number 1.3  
Revision Date 07/07/2009Page 1 of 7  
Print Date 1/8/2012**1. PRODUCT AND COMPANY IDENTIFICATION****POLYONE CORPORATION**  
**8155 Cobb Center Drive, Kennesaw, GA 30152**Telephone : Product Stewardship (770) 590-3500 x.3563  
Emergency telephone : **CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).**Product name : 5050 326 MASTERBATCH #5  
Product code : FO00012142  
Chemical Name : Mixture  
CAS-No. : Mixture  
Product Use : Industrial Applications**2. COMPOSITION/INFORMATION ON REGULATED INGREDIENTS**

Components	CAS-No.	Weight percent
Zinc di(benzothiazol-2-yl) disulphide	155-04-4	1 - 5
Zinc bis dibutyldithiocarbamate	136-23-2	5 - 10
Zinc oxide	1314-13-2	30 - 60

**3. HAZARDS IDENTIFICATION****EMERGENCY OVERVIEW**

This product is a water based mixture with an ammonia odor. The 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. The product is not combustible, but it will burn if involved in a fire, releasing hydrocarbon products of combustion. Inhalation of the ammonia from this product may cause respiratory irritation, coughing, sore throat, and labored breathing.

**POTENTIAL HEALTH EFFECTS****Routes of Exposure:** : Skin contact, Inhalation, Ingestion**Acute exposure**

Inhalation : Symptoms of breathing ammonia vapor concentrated from this product may include laryngitis, tracheitis, pulmonary edema, dyspnea, bronchospasms, and chest pains or pneumonitis. Symptoms are typically reversible.

Ingestion : May be harmful if swallowed.

Eyes : Liquid, aerosol, or vapors of this product are irritating and may cause tearing, reddening, and swelling accompanied by a stinging sensation and/or a feeling like that of fine dust in the eyes.

Skin : Skin contact may cause redness, irritation, and burns.

**POLYONE CORPORATION**

**MATERIAL SAFETY DATA SHEET**

**5050 326 MASTERBATCH #5**

Version Number 1.3  
Revision Date 07/07/2009

Page 2 of 7  
Print Date 1/8/2012

**Chronic exposure** : Refer to Section 11 for Toxicological Information.

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

**4. FIRST AID MEASURES**

- Inhalation** : Move to fresh air in case of accidental inhalation of vapors or 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. Never give anything by mouth to an unconscious person. 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** : Carbon dioxide (CO<sub>2</sub>), Water, Foam, Dry chemical.
- Special Fire Fighting Procedures** : Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.
- Unusual Fire/Explosion Hazards** : Burning dry latex produces dense black smoke with the possibility of toxic vapors. Residual latex material contained in empty drums may decompose when burned producing toxic or irritating fumes. Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), other hazardous materials, and smoke are all possible.

**6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions** : Ensure response personnel are properly protected (see section 8 for respiratory or other protection guidelines.) Use caution as floors may be slippery.

**POLYONE CORPORATION**

**MATERIAL SAFETY DATA SHEET**

**5050 326 MASTERBATCH #5**

Version Number 1.3  
Revision Date 07/07/2009

Page 3 of 7  
Print Date 1/8/2012

- Environmental precautions : 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). Sweep up and shovel into suitable containers for disposal.

**7. HANDLING AND STORAGE**

- Handling : Use only in area provided with appropriate exhaust ventilation. Prolonged heating may result in product degradation. Material may settle during storage. Careful mixing without introduction of air may be necessary before use.
- Storage : Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep in a dry, cool place. Keep from freezing and temperature extremes.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

- Respiratory protection : A respirator is normally not required for routine handling of product in areas of good general ventilation and adequate local exhaust at processing equipment during routine operation. If using a cartridge respirator, an ammonia cartridge is required to filter out potential excess ammonia vapors.
- Eye/Face Protection : Safety glasses with side-shields. Wear goggles or face shield during operations that present a splash potential.
- Hand protection : Impervious gloves such as rubber or PVC
- Skin and body protection : Long sleeved shirts and long pants are adequate for normal handling. Where operations present a splash or spill potential, employees should wear chemically resistant clothing, boots, apron, gloves, and eye/face protection.
- Additional Protective Measures : Safety shoes
- General Hygiene Considerations : Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practices.
- Engineering measures : Adequate ventilation and/or appropriate respiratory protection may also be necessary to minimize employee exposure to processing vapors.

Exposure limit(s)

**POLYONE CORPORATION**

**MATERIAL SAFETY DATA SHEET**

**5050 326 MASTERBATCH #5**

Version Number 1.3  
Revision Date 07/07/2009

Page 4 of 7  
Print Date 1/8/2012

Components	Value	Exposure time	Exposure type	List:
Zinc oxide	2 mg/m3	Time Weighted Average (TWA):	Respirable fraction.	ACGIH
	10 mg/m3	Short Term Exposure Limit (STEL):	Respirable fraction.	ACGIH
	5 mg/m3	Recommended exposure limit (REL):	Fume.	NIOSH
	5 mg/m3	Recommended exposure limit (REL):	Dust.	NIOSH
	15 mg/m3	Ceiling Limit Value and Time Period (if specified):	Dust.	NIOSH
	10 mg/m3	Short Term Exposure Limit (STEL):	Fume.	NIOSH
	5 mg/m3	PEL:	Fume.	OSHA Z1
	5 mg/m3	PEL:	Respirable fraction.	OSHA Z1
	15 mg/m3	PEL:	Total dust.	OSHA Z1
	5 mg/m3	Time Weighted Average (TWA):	Fume.	OSHA Z1A
	5 mg/m3	Time Weighted Average (TWA):	Respirable fraction.	OSHA Z1A
	10 mg/m3	Time Weighted Average (TWA):	Total dust.	OSHA Z1A
	10 mg/m3	Short Term Exposure Limit (STEL):	Fume.	OSHA Z1A
	5 mg/m3	Time Weighted Average (TWA):	Fume.	MX OEL
	10 mg/m3	Time Weighted Average (TWA):	Dust.	MX OEL
	10 mg/m3	Short Term Exposure Limit (STEL):	Fume.	MX OEL

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Form	: liquid	Evaporation rate	: Slower than Butyl Acetate
Appearance	: liquid	Specific Gravity	: Not determined
Colour	: YELLOW	Bulk density	: Not applicable
Odour	: Slight ammonia	Vapour pressure	: Not established
Melting point/range	: not applicable	Vapour density	: Heavier than air.
Boiling Point:	: Not established	pH	: Not determined
Water solubility	: completely miscible		

**10. STABILITY AND REACTIVITY**

Stability	: Stable
Hazardous Polymerization	: Will not occur.
Conditions to avoid	: Extremes of temperature and direct sunlight. Keep from freezing.

**POLYONE CORPORATION**

**MATERIAL SAFETY DATA SHEET**

**5050 326 MASTERBATCH #5**

Version Number 1.3  
Revision Date 07/07/2009

Page 5 of 7  
Print Date 1/8/2012

Incompatible Materials : Acids, metal salts, and solvents

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
155-04-4	Zinc di(benzothiazol-2-yl) disulphide	sensitizer	Skin.
136-23-2	Zinc bis dibutyldithiocarbamate	Irritant	Eyes, Skin, Respiratory system.
1314-13-2	Zinc oxide	Systemic effects	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
155-04-4	Zinc di(benzothiazol-2-yl) disulphide	Oral LD50	540 mg/kg	rat
136-23-2	Zinc bis dibutyldithiocarbamate	Oral LD50 Dermal LD50	5,000 mg/kg 2,000 mg/kg	rat rabbit
1314-13-2	Zinc oxide	LC50 Oral LD50	2500 mg/m <sup>3</sup> 7,950 mg/kg	mouse mouse

Additional Health Hazard Information:

**Zinc bis dibutyldithiocarbamate 136-23-2** This material if ingested may cause an Antabuse response when alcohol is ingested. This Antabuse effect includes nausea, vomiting, abdominal cramps and/or flushing.

**12. ECOLOGICAL INFORMATION**

Persistence and degradability : no data available

Environmental Toxicity : no data available

Bioaccumulation Potential : no data available

Additional advice : no data available

**13. DISPOSAL CONSIDERATIONS**

Product : Where possible recycling is preferred to disposal or incineration. The

**POLYONE CORPORATION**

**MATERIAL SAFETY DATA SHEET**

**5050 326 MASTERBATCH #5**

Version Number 1.3  
Revision Date 07/07/2009

Page 6 of 7  
Print Date 1/8/2012

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 (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 : Not applicable  
65

SARA Title III Section 302 Extremely Hazardous Substance

Unless specific chemicals are identified under this section, this product is Not Applicable under this regulation

SARA Title III Section 313 Toxic Chemicals:

Unless specific chemicals are identified under this section, this product is Not Applicable under this regulation

Chemical Name	CAS-No.	Weight percent
ZINC COMPOUNDS	1314-13-2	30.00 - 60.00
ZINC COMPOUNDS	136-23-2	5.00 - 10.00
ZINC COMPOUNDS	155-04-4	1.00 - 5.00

**POLYONE CORPORATION****MATERIAL SAFETY DATA SHEET****5050 326 MASTERBATCH #5**Version Number 1.3  
Revision Date 07/07/2009Page 7 of 7  
Print Date 1/8/2012

## Canadian Regulations:

## National Pollutant Release Inventory (NPRI)

Chemical Name	CAS-No.	Weight percent	NPRI ID#
2-Mercaptobenzothiazole	149-30-4	0.10 - 1.00	
Methyl alcohol	67-56-1	0.10 - 1.00	
Zinc oxide	1314-13-2	30.00 - 60.00	
Zinc bis dibutyldithiocarbamate	136-23-2	5.00 - 10.00	
Zinc di(benzothiazol-2-yl) disulphide	155-04-4	1.00 - 5.00	

WHMIS Classification : D2B

## WHMIS Ingredient Disclosure List

CAS-No.
1314-13-2

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 : 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.