

**POLYONE CORPORATION****MATERIAL SAFETY DATA SHEET****AQUAMIX 1238**Version Number 1.3  
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Print Date 4/9/2014**1. PRODUCT AND COMPANY IDENTIFICATION****POLYONE CORPORATION**  
**8155 Cobb Center Drive, Kennesaw, GA 30152**Telephone : 1 (440) 930-1000 or 1 (866) POLYONE  
Emergency telephone : **CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure**  
number : **or accident).**Product name : AQUAMIX 1238  
Product code : FO20019362  
Chemical Name : Mixture  
CAS-No. : Mixture  
Product Use : Industrial Applications**2. COMPOSITION/INFORMATION ON INGREDIENTS**

| Components                            | CAS-No.   | Weight percent |
|---------------------------------------|-----------|----------------|
| Zinc di(benzothiazol-2-yl) disulphide | 155-04-4  | 1 - 5          |
| Sulfur                                | 7704-34-9 | 10 - 30        |
| Zinc bis dibutyldithiocarbamate       | 136-23-2  | 10 - 30        |
| Zinc oxide                            | 1314-13-2 | 10 - 30        |

**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:** : Skin contact, Inhalation, Ingestion**Acute exposure**Inhalation : Inhalation of airborne droplets may cause irritation of the respiratory tract.  
Ingestion : May be harmful if swallowed.  
Eyes : May cause eye and skin irritation.  
Skin :



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**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 vapors or fumes from overheating or combustion. When symptoms persist or in all cases of doubt seek medical advice.
- Ingestion** : Never give anything by mouth to an unconscious person. Seek medical attention if necessary. Do not induce vomiting without medical advice.
- 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. FIREFIGHTING MEASURES**

- Flash point** : no data available
- Flammable Limits**  
Upper explosion limit : no data available  
Lower explosion limit : no data available  
Auto-ignition temperature : no data available  
Suitable extinguishing media : Carbon dioxide (CO2), 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 (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), 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.
- Environmental precautions** : The product should not be allowed to enter drains, water courses or

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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. Airborne contaminant levels should be maintained below the occupational exposure guidelines.

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)

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| 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              | : NO PIGMENT          | Bulk density     | : Not applicable            |
| Odour               | : slight              | 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                | : The product is stable if stored and handled as prescribed.       |
| Hazardous Polymerization | : Will not occur.  |
| Conditions to avoid      | : Extremes of temperature and direct sunlight. Keep from freezing. |

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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.                           |
| 7704-34-9 | Sulfur                                | Irritant         | Eyes, Skin, Respiratory system. |
| 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<br>Dermal LD50  | 5,000 mg/kg<br>2,000 mg/kg                | rat<br>rabbit           |
| 1314-13-2 | Zinc oxide                            | LC50<br>LC50<br>Oral LD50 | 2500 mg/m <sup>3</sup><br><br>7,950 mg/kg | mouse<br>mouse<br>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

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**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 (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  
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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

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

## Canadian Regulations:

## National Pollutant Release Inventory (NPRI)

| Chemical Name                         | CAS-No.   | Weight percent | NPRI ID# |
|---------------------------------------|-----------|----------------|----------|
| 2-Mercaptobenzothiazole               | 149-30-4  | 0.10 - 1.00    |          |
| Zinc oxide                            | 1314-13-2 | 10.00 - 30.00  |          |
| Zinc bis dibutyldithiocarbamate       | 136-23-2  | 10.00 - 30.00  |          |
| 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.