

### MATERIAL SAFETY DATA SHEET

# **AQUAMIX 304**

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Revision Date 02/12/2013 Print Date 2/12/2013

#### 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 304
Product code : FO20008675
Chemical Name : Mixture
CAS-No. : Mixture

Product Use : Industrial Applications

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight percent
4,4'-Dithiobismorpholine	103-34-4	30 - 60

#### 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 :

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



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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

the soil.

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid



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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)

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Form : liquid Evaporation rate : Slower than Butyl



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Acetate

Appearance : liquid Specific Gravity Not determined Colour NO PIGMENT Bulk density : Not applicable Odour Vapour pressure : Not established : slight : Heavier than air. Melting point/range : not applicable Vapour density Boiling Point: : Not established : Not determined pН

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.

Incompatible Materials : Acids, metal salts, and solvents

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
103-34-4	4,4'-Dithiobismorpholine	Irritant	Eyes, Skin.

#### 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
103-34-4	4,4'-Dithiobismorpholine	LC50	1624 mg/m3	mouse
		Oral LD50	1,660 mg/kg	mouse

### 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



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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

Canadian Regulations:



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National Pollutant Release Inventory (NPRI)

not applicable

WHMIS Classification : D2A

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 : Listed

Japan ENCS : Not determined

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.