

#### MATERIAL SAFETY DATA SHEET

### X TT-474-001-06 NH

Version Number 1.0 Page 1 of 6
Revision Date 05/17/2012 Print Date 8/26/2012

#### 1. PRODUCT AND COMPANY IDENTIFICATION

#### POLYONE CORPORATION

33587 Walker Road, Avon Lake, OH 44012

Telephone : 1 (440) 930-1000 or 1 (866) POLYONE

Emergency telephone : CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure

or accident).

Product name : X TT-474-001-06 NH

Product code : EM10025414 Chemical Name : Mixture CAS-No. : Mixture

Product Use : Industrial Applications

#### 2. COMPOSITION/INFORMATION ON REGULATED INGREDIENTS

Components	CAS-No.	Weight percent
Zinc borate	1332-07-6	1 - 5

#### 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 enduser (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect employees from exposure.

#### POTENTIAL HEALTH EFFECTS

**Routes of Exposure:** : Inhalation, Ingestion, Eyes, 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

eves.

Skin : Avoid skin contact. Product contains unreacted organic peroxides

which may cause mild skin irritation.

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



#### MATERIAL SAFETY DATA SHEET

### X TT-474-001-06 NH

 Version Number 1.0
 Page 2 of 6

 Revision Date 05/17/2012
 Print Date 8/26/2012

**Medical Conditions Aggravated by Exposure:** 

: Individuals with chronic respiratory disorders (i.e. asthma, chronic bronchitis, etc.) may be adversely affected by any airborne

contaminant.

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

Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), other hazardous materials, and smoke are all possible.

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.

7. HANDLING AND STORAGE



## MATERIAL SAFETY DATA SHEET

## X TT-474-001-06 NH

Version Number 1.0 Page 3 of 6
Revision Date 05/17/2012 Print Date 8/26/2012

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. Keep away from heat. Excessive storage temperature and humidity can degrade product performance. Store below 149 °F (65 °C). Rotate stock. Product

shelf life is normally 1 year maximum.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory protection : No personal respiratory protective equipment normally required when

handling the product itself. See "Engineering Measures" section below for precautions to be taken when heating or processing this

material.

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. During

processing and cross-linking, product can give off by-products such as alcohols, acetophenone, alpha-methylstyrene, acetone, methane, and ethane. By-product vapors may be flammable. User must provide necessary precautions such as adequate ventilation to prevent accumulation and ignition of vapors. 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

Evaporation rate : Not applicable Form : solid : pellets Specific Gravity Not determined Appearance Colour : NO PIGMENT Bulk density : Not established : characteristic Odour Vapour pressure : not applicable Melting point/range : Not determined Vapour density : not applicable Boiling Point: : not applicable : not applicable pН

Water solubility : insoluble



## MATERIAL SAFETY DATA SHEET

### X TT-474-001-06 NH

 Version Number 1.0
 Page 4 of 6

 Revision Date 05/17/2012
 Print Date 8/26/2012

#### 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 : Strong acids, Oxidizing agents, Reducing agents

Hazardous decomposition

products

Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), other hazardous materials, and smoke are all possible. Traces of alcohols, acetophenone, alpha-methylstyrene, acetone, methane, ethane, or other byproducts may be liberated during processing or decomposition.

#### 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
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#### 12. ECOLOGICAL INFORMATION

Persistence and degradability : Not readily biodegradable.

Environmental Toxicity : Chemicals are not readily available as they are bound within the

polymer matrix.

Bioaccumulation Potential : Chemicals are not readily available as they are bound within the

polymer matrix.

Additional advice : not applicable

## 13. DISPOSAL CONSIDERATIONS

Product : 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 : 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.



## MATERIAL SAFETY DATA SHEET

# X TT-474-001-06 NH

Version Number 1.0 Page 5 of 6 Print Date 8/26/2012 Revision Date 05/17/2012

14. TRANSPORT INFORMATION

U.S. DOT Classification : Not regulated for transportation.

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 COMPOUNDSZINC COMPOUNDS	1332-07-6	1.00 - 5.00
ZINC COMPOUNDS	12767-90-7	1.00 - 5.00

# Canadian Regulations:

National Pollutant Release Inventory (NPRI)

Chemical Name	CAS-No.	Weight	NPRI ID#
		percent	
Zinc borate	1332-07-6	1.00 - 5.00	
Boron zinc oxide (B6Zn2O11)	12767-90-7	1.00 - 5.00	



#### MATERIAL SAFETY DATA SHEET

# X TT-474-001-06 NH

 Version Number 1.0
 Page 6 of 6

 Revision Date 05/17/2012
 Print Date 8/26/2012

WHMIS Classification : Not controlled.

DSL : DSL status has not been determined. Quantity use in Canada may be

restricted by regulations.

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.