



# POLYONE CORPORATION

## MATERIAL SAFETY DATA SHEET

### MSDS X155-058-121-04

Version Number 1.0  
Revision Date 05/28/2004

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#### 1. PRODUCT AND COMPANY IDENTIFICATION

**POLYONE CORPORATION**  
33587 Walker Road, Avon Lake, OH 44012

Telephone : Product Stewardship (440) 930-1395  
**Emergency telephone number** : **CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).**

Product name : MSDS X155-058-121-04  
Product code : VC10002898  
Chemical Name : Mixture  
CAS-No. : Mixture  
Product Use : Industrial Applications

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

| Components   | CAS-No.    | Weight % |
|--|------------|----------|
| Azodicarbonamide   | 123-77-3   | 1 - 5    |
| Aluminate (Al(OH) <sub>3</sub> -), (OC-6-11)-, magnesium carbonate hydroxide (2:6:1:4) | 11097-59-9 | 1 - 5    |
| Calcium carbonate  | 1317-65-3  | 10 - 30  |
| Di(2-ethylhexyl)phthalate  | 117-81-7   | 30 - 60  |

#### 3. HAZARDS IDENTIFICATION

##### EMERGENCY OVERVIEW

This 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. See Sections 3 and 11 for additional details. This product may contain residual vinyl chloride monomer (VCM) (CAS number 75-01-4) below 8.5 ppm (0.00085%). OSHA considers VCM a suspect carcinogen and regulates it under 29 CFR 1910.1017. It is unlikely, under normal working conditions with adequate ventilation, that the OSHA action level and the OSHA exposure limits will be exceeded for residual VCM. However, the user should take the necessary precautions (e.g. mechanical ventilation, local exhaust ventilation, air-monitoring, respiratory protection, etc.) to ensure airborne levels of any vapors including VCM or dusts that may be released during heating or processing are below regulated levels.

##### POTENTIAL HEALTH EFFECTS

**Routes of Exposure:** : 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.

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Skin : Experience shows no unusual dermatitis hazard from routine handling.

**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 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 applicable

Suitable extinguishing media : Carbon dioxide blanket, water spray, dry powder, foamnone.

**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** : May emit Hydrogen Chloride (HCl) or Carbon Monoxide (CO) under fire conditions. 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** : 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



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|                     |                   |                   |                   |
|---------------------|-------------------|-------------------|-------------------|
| Appearance          | : Pellets, powder | Specific Gravity: | : Not determined  |
| Color               | : NO PIGMENT      | Bulk density      | : Not established |
| Odor                | : Very faint      | Vapor pressure    | : Not applicable  |
| Melting point/range | : Not determined  | Vapour density    | : Not applicable  |
| Boiling Point:      | : Not applicable  | pH                | : Not applicable  |
| Water solubility    | : Insoluble       |                   |                   |

**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., Avoid contact with acetal homopolymers and acetal copolymers during processing.

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. Prolonged heating (approximately 30 minutes or more) above 392 °F (200 °C) or short term heating at 482 °F (250 °C) may result in product decomposition and evolution of carbon monoxide and hydrogen chloride.

**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   |
|------------|---|------------------|--|
| 123-77-3   | Azodicarbonamide  | sensitizer       | Respiratory system.  |
| 11097-59-9 | Aluminate (Al(OH) <sub>63</sub> -), (OC-6-11)-, magnesium carbonate hydroxide (2:6:1:4) | Irritant         | Eyes, Skin.  |
| 1317-65-3  | Calcium carbonate   | Irritant         | Eyes, Skin.  |
|            |   | Systemic effects | Eyes, Skin, Respiratory system.  |
| 117-81-7   | Di(2-ethylhexyl)phthalate   | Systemic effects | Eyes, Respiratory system, Liver, central nervous system (CNS), Skin, digestive 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 |
|---------|---------------|-------|-------|---------|
|---------|---------------|-------|-------|---------|

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|          |                           |                                  |  |                      |
|----------|---------------------------|----------------------------------|--|----------------------|
| 123-77-3 | Azodicarbonamide          | LC50<br>Oral LD50<br>Dermal LD50 | 200 mg/l<br>> 6,400 mg/kg<br>> 2,000 mg/kg | rat<br>rat<br>rabbit |
| 117-81-7 | Di(2-ethylhexyl)phthalate | Oral LD50<br>Dermal LD50         | 30 gm/kg<br>25 gm/kg                       | rat<br>rabbit        |

**Carcinogenicity**

This product contains the following components which, in their pure form, have the following carcinogenicity data:

| CAS-No.  | Chemical Name             | OSHA | IARC | NTP |
|----------|---------------------------|------|------|-----|
| 117-81-7 | Di(2-ethylhexyl)phthalate | no   | no   | 2   |

**IARC Carcinogen Classifications:**

- 1 - The component is carcinogenic to humans.
- 2A - The component is probably carcinogenic to humans.
- 2B - The component is possibly carcinogenic to humans.

**NTP Carcinogen Classifications:**

- 1 - The component is known to be a human carcinogen.
- 2 - The component is reasonably anticipated to be a human carcinogen.

**Additional Health Hazard Information:**

**Azodicarbonamide 123-77-3 Sensitizer to the respiratory system with repeated minimal inhalation. While no chronic health problems have been identified, individuals with respiratory problems should avoid inhalation exposure to this material.**

**Additional Health Hazard Information:**

**Di(2-ethylhexyl)phthalate 117-81-7 There is sufficient evidence for the carcinogenicity of di (2-ethylhexyl) phthalate in experimental animals. Administered in the feed this chemical caused an increase incidence of liver cancer in male and female rats and mice. The relevance of this finding to humans is uncertain.**

**12. ECOLOGICAL INFORMATION**

- Persistence and degradability : Not readily biodegradable.
- Environmental Toxicity : Adverse ecological impact is not known or expected under normal use.
- Bioaccumulation Potential : No data available
- Additional advice : Not applicable

**13. DISPOSAL CONSIDERATIONS**

- Product : Like most thermoplastic plastics 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.

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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 : Not regulated for transportation.  
ICAO/IATA (air) : Not regulated for transportation.  
IMO / IMDG (maritime) : Not regulated for transportation.

**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)

| Chemical Name             | CAS-No.  | % in Product | RQ for component | RQ for Mixture/Product |
|---------------------------|----------|--------------|------------------|------------------------|
| Di(2-ethylhexyl)phthalate | 117-81-7 | 38.2057      | 100 lbs          | 262 LB                 |

California Proposition 65 : WARNING! This product contains a chemical known to the State of California to cause cancer., WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

## SARA Title III Section 302 Extremely Hazardous Substance

Not applicable

## SARA Title III Section 313 Toxic Chemicals:

| Chemical Name                    | CAS-No.  | Weight % |
|----------------------------------|----------|----------|
| DI(2-ETHYLHEXYL)PHTHALATE (DEHP) | 117-81-7 | 38.20    |

## Canadian Regulations:

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## National Pollutant Release Inventory (NPRI)

| Chemical Name             | CAS-No.  | Weight % | NPRI ID# |
|---------------------------|----------|----------|----------|
| Di(2-ethylhexyl)phthalate | 117-81-7 | 38.20    | 25       |
| Zinc stearate             | 557-05-1 | 0.22     | 241      |

WHMIS Classification : D2A

## WHMIS Ingredient Disclosure List

|            |
|------------|
| CAS-No.    |
| 11097-59-9 |
| 117-81-7   |

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 when used in combination with any other materials and/or in any particular process or processing conditions.