

#### MATERIAL SAFETY DATA SHEET

# MSDS TONE-TAM

 Version Number 1.0
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 Revision Date 05/30/2003
 Print Date 11/11/2011

### 1. PRODUCT AND COMPANY IDENTIFICATION

#### POLYONE CORPORATION

33587 Walker Road, Avon Lake, OH 44012

NON-EMERGENCY : Product Stewardship (440)-930-1395

TELEPHONE

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

number or accident).

Product name : MSDS TONE-TAM

Product code : EM10004036 Chemical Name : Mixture CAS-No. : Mixture

Product Use : Industrial Applications

# 2. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

| Components  | CAS-No.  | Weight % |
|-------------|----------|----------|
| Caprolactam | 105-60-2 | 1 - 5    |

### 3. HAZARDS IDENTIFICATION

#### **EMERGENCY OVERVIEW**

This mixture has not been evaluated as a whole. All ingredients are bound and potential for hazardous exposure as shipped is minimal. However, some vapors may be released upon heating or processing. 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:** : 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.

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

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

**Medical Conditions** : None known.

**Aggravated by Exposure:** 



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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 : water, dry powder, foam, carbon dioxide (CO2).

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

: None

### 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

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



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and contamination. Keep in a dry, cool place.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory protection : No personal respiratory protective equipment normally required.

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 : Handle in accordance with good industrial hygiene and safety practice.

Considerations Wash hands before breaks and at the end of workday.

Engineering measures : Heat only in areas with appropriate exhaust ventilation. Provide

appropriate exhaust ventilation at machinery.

# Exposure limit(s)

| Components  | Value              | Exposure time Exposure type       |        | List: |
|-------------|--------------------|-----------------------------------|--------|-------|
| Caprolactam |                    | Note:                             | Vapor. | ACGIH |
|             | 1 mg/m3            | Time Weighted Average (TWA):      | Dust.  | ACGIH |
|             | 5 ppm 23<br>mg/m3  | Time Weighted Average (TWA):      | Vapor. | ACGIH |
|             | 3 mg/m3            | Short Term Exposure Limit (STEL): | Dust.  | ACGIH |
|             | 10 ppm 46<br>mg/m3 | Short Term Exposure Limit (STEL): | Vapor. | ACGIH |

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Form : Solid Evaporation rate Not applicable. : Pellets, slabs Specific Gravity Not determined Appearance Color : NO PIGMENT Bulk density Not established Odor : Very faint Vapor pressure Not applicable : Not applicable Melting point/range : Not determined Vapor density Boiling Point: : Not applicable pН : Not applicable

Water solubility : Insoluble

# 10. STABILITY AND REACTIVITY

Stability : Stable.

Hazardous Polymerization : Will not occur.



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Conditions to avoid : To avoid thermal decomposition, do not overheat.

Incompatible Materials : Strong acids, oxidizing and reducing agents.

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                                                                                                 |
|----------|---------------|------------------|--------------------------------------------------------------------------------------------------------------|
| 105-60-2 | Caprolactam   | Irritant         | Skin, Respiratory system.                                                                                    |
|          |               | Systemic effects | Eyes, Skin, Respiratory system,<br>Liver, Kidney, central nervous<br>system, heart or circulatory<br>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 |
|----------|---------------|-------------|-------------|---------|
| 105-60-2 | Caprolactam   | LC50        | 300 mg/m3   | rat     |
|          | _             | Oral LD50   | 1,210 mg/kg | rat     |
|          |               | Dermal LD50 | 1410 ul/kg  | rabbit  |

# 12. ECOLOGICAL INFORMATION

Persistence and degradability : Not readily biodegradable.

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

of the polymer.

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

of the polymer.

Additional advice : Not applicable

# 13. DISPOSAL CONSIDERATIONS

Product : Like most thermoplastics 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 : Not regulated for transportation.

IMO / IMDG : 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)

Not applicable

California Proposition : This product does not contain a substance listed by California Prop 65.

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SARA Title III Section 302 Extremely Hazardous Substance

Not applicable

SARA Title III Section 313 Toxic Chemicals:

Not applicable

Canadian Regulations:

WHMIS Classification : D1A

WHMIS Ingredient Disclosure List

CAS-No.



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105-60-2

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 : Not determined.

Japan ENCS : Listed.

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.