## 1. PRODUCT AND COMPANY IDENTIFICATION

**Company**

**Arkema Inc.**
**900 First Avenue**
**King of Prussia, Pennsylvania 19406**

**Specialty Polyamides**

**Customer Service Telephone Number:** (800) 932-0420
(Monday through Friday, 8:00 AM to 5:00 PM EST)

**Emergency Information**

**Transportation:** CHEMTREC: (800) 424-9300
(24 hrs., 7 days a week)
**Medical:** Rocky Mountain Poison Center: (866) 767-5089
(24 hrs., 7 days a week)

**Product Information**

**Product name:** PEBAX® 7033 SA 01 MED
**Synonyms:** Not available
**Molecular formula:** Not applicable
**Chemical family:** polyamide
**Product use:** Mouldings and Extrusion

## 2. HAZARDS IDENTIFICATION

**Emergency Overview**
**Color:** yellow
**Physical state:** solid
**Form:** pellets
**Odor:** None.

***Classification of the substance or mixture:**
Not a hazardous substance or mixture.

**GHS-Labelling**

**Supplemental Hazard Statements:**
Processing may release vapors and/or fumes which cause eye, skin and respiratory tract irritation.

**Supplemental information:**

**Potential Health Effects:**
The product, in the form supplied, is not anticipated to produce significant adverse human health effects. Contains polymer(s). Effects due to processing releases or residual monomer: Irritating to eyes, respiratory system and skin.

Prolonged or repeated exposure may cause: headache, drowsiness, nausea, weakness.(severity of effects depends on extent of exposure) .

**Other:**
Handle in accordance with good industrial hygiene and safety practice. (pellets/granules) This product may release fume and/or vapor of variable composition depending on processing time and temperature.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS-No. | Wt/Wt | GHS Classification** |
|---|---|---|---|
| Hexanedioic acid, polymer with azacyclotridecan-2-one and .alpha.-hydro-.omega.-hydroxypoly(oxy-1,4-butanediyl) | 77402-38-1 | 98 - 100 % | Not classified |

**For the full text of the H-Statements mentioned in this Section, see Section 16.

## 4. FIRST AID MEASURES

**4.1. Description of necessary first-aid measures:**

**Inhalation:**
If inhaled, remove victim to fresh air.

**Skin:**
In case of contact, immediately flush skin with plenty of water. If molten polymer gets on the skin, cool rapidly with cold water. Do not peel solidified product off the skin. Obtain medical treatment for thermal burns. Remove material from clothing. Wash clothing before reuse. Thoroughly clean shoes before reuse.

**Eyes:**
Immediately flush eye(s) with plenty of water. Obtain medical treatment for thermal burns.

**Ingestion:**
If swallowed, DO NOT induce vomiting. Get medical attention. Never give anything by mouth to an unconscious person.

**4.2. Most important symptoms/effects, acute and delayed:**

For most important symptoms and effects (acute and delayed), see Section 2 (Hazard Statements and Supplemental Information) and Section 11 (Toxicology Information) of this SDS.

**4.3. Indication of immediate medical attention and special treatment needed, if necessary:**

Unless otherwise noted in Notes to Physician, no specific treatment noted; treat symptomatically.

## 5. FIREFIGHTING MEASURES

**Extinguishing media (suitable):**
Water spray, Carbon dioxide (CO2), Foam

**Protective equipment:**
Fire fighters and others who may be exposed to products of combustion should wear full fire fighting turn out gear (full Bunker Gear) and self-contained breathing apparatus (pressure demand / NIOSH approved or equivalent).

**Further firefighting advice:**
Fire fighting equipment should be thoroughly decontaminated after use.

**Fire and explosion hazards:**
When burned, the following hazardous products of combustion can occur:
Carbon oxides
Hydrogen cyanide (hydrocyanic acid)
(traces)
Hazardous organic compounds

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, Emergency procedures, Methods and materials for containment/clean-up:**
Prevent further leakage or spillage if you can do so without risk. Ventilate the area. Sweep up and shovel into suitable properly labeled containers for prompt disposal. Possible fall hazard – floor may become slippery from leakage/spillage of product. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits.

**Protective equipment:**
Appropriate personal protective equipment is set forth in Section 8.

## 7. HANDLING AND STORAGE

**Handling**

**General information on handling:**
Avoid breathing dust.
Avoid breathing processing fumes or vapors.
Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure and removal of material from eyes, skin, and clothing.

**Storage**

**General information on storage conditions:**
Keep in a dry, cool place. Store in closed containers, in a secure area to prevent container damage and subsequent spillage. Store away from moisture and heat to maintain the technical properties of the product.

**Storage stability – Remarks:**
Stable under normal conditions.

**Storage incompatibility – General:**
None known.

**Temperature tolerance – Do not store above:**
140 °F (60 °C)

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Airborne Exposure Guidelines:**

**Particles Not Otherwise Specified / Nuisance Dust (Proprietary)**

US. ACGIH Threshold Limit Values

| | |
|---|---|
| **Form:** | Inhalable particles. |
| Time weighted average | 10 mg/m3 |
| **Form:** | Respirable particles. |
| Time weighted average | 3 mg/m3 |

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

| | |
|---|---|
| **Form:** | Respirable fraction. |
| PEL: | 5 mg/m3 |

| | |
|---|---|
| **Form:** | Total dust |
| PEL: | 15 mg/m3 |

US. OSHA Table Z-3 (29 CFR 1910.1000)

| | |
|---|---|
| **Form:** | Respirable fraction. |
| Time weighted average | 15millions of particles per cubic foot of air |

| | |
|---|---|
| **Form:** | Total dust |
| Time weighted average | 50millions of particles per cubic foot of air |

| | |
|---|---|
| **Form:** | Respirable fraction. |
| Time weighted average | 5 mg/m3 |

| | |
|---|---|
| **Form:** | Total dust |
| Time weighted average | 15 mg/m3 |

Only those components with exposure limits are printed in this section. Limits with skin contact designation above have skin contact effect. Air sampling alone is insufficient to accurately quantitate exposure. Measures to prevent significant cutaneous absorption may be required. Limits with a sensitizer designation above mean that exposure to this material may cause allergic reactions.

**Engineering controls:**
Investigate engineering techniques to reduce exposures below airborne exposure limits or to otherwise reduce exposures. Provide ventilation if necessary to minimize exposures or to control exposure levels to below airborne exposure limits (if applicable see above).If practical, use local mechanical exhaust ventilation at sources of air contamination such as open process equipment.

**Respiratory protection:**
Avoid breathing dust. Avoid breathing processing fumes or vapors. Where airborne exposure is likely or airborne exposure limits are exceeded (if applicable, see above), use NIOSH approved respiratory protection equipment appropriate to the material and/or its components and substances released during processing. Consult respirator manufacturer to determine appropriate type equipment for a given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure or where exposure limit may be significantly exceeded, use an approved full face positive-pressure, self-contained breathing apparatus or positive-pressure airline with auxiliary self-contained air supply. Respiratory protection programs must comply with 29 CFR § 1910.134.

**Skin protection:**
Processing of this product releases vapors or fumes which may cause skin irritation. Minimize skin contamination by following good industrial hygiene practice. Wearing protective gloves is recommended. Wash hands and contaminated skin thoroughly after contact with processing fumes or vapors. Wash thoroughly after handling.

**Eye protection:**
Use good industrial practice to avoid eye contact. Processing of this product releases vapors or fumes which may cause eye irritation. Where eye contact may be likely, wear chemical goggles and have eye flushing equipment available.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---|
| **Color:** | yellow |
| **Physical state:** | solid |
| **Form:** | pellets |
| **Odor:** | None. |
| **Odor threshold:** | No data available |
| **Flash point** | No data available |
| **Auto-ignition temperature:** | 698 - 842 °F (370 - 450 °C) (Method: Standard ASTM D 1929-77 (B)) |
| **Lower flammable limit (LFL):** | Not applicable |
| **Upper flammable limit (UFL):** | Not applicable |

| | |
|---|---|
| **pH:** | No data available |
| **Density:** | No data available |
| **Specific Gravity (Relative density):** | No data available |
| **Bulk density:** | 550 - 650 kg/m3 |
| **Vapor pressure:** | No data available |
| **Vapor density:** | No data available |
| **Boiling point/boiling range:** | Not applicable |
| **Melting point/range:** | 342 °F (172 °C) |
| **Freezing point:** | Not applicable |
| **Evaporation rate:** | No data available |
| **Solubility in water:** | 68 °F (20 °C) insoluble |
| **Solubility in other solvents: [qualitative and quantative]** | Soluble in: |
| | Phenols |
| | Metacresol |
| | Benzyl alcohol (when hot) |
| | Formic acid (concentrate), Sulphuric acid (concentrate) |
| | partly soluble |
| | Methylene chloride (dichloromethane) |
| **Viscosity, dynamic:** | No data available |
| **Oil/water partition coefficient:** | No data available |
| **Thermal decomposition** | 572 - 662 °F (300 - 350 °C) |
| **Net calorific value** | 34.000 - 37.000 kJ/kg (Method: Standard : NF M 03 0005) |
| **Flammability:** | See GHS Classification in Section 2 |

## 10. STABILITY AND REACTIVITY

**Stability:**
The product is stable under normal handling and storage conditions.

**Hazardous reactions:**
Hazardous polymerization does not occur.

**Materials to avoid:**
None known.

**Conditions / hazards to avoid:**
Avoid storing in moist and warm conditions. (to maintain the technical properties of the product). See Hazardous Decomposition Products below.

**Hazardous decomposition products:**

Thermal decomposition giving toxic, flammable, and / or corrosive products:
Ammonia
Amino derivatives
Hazardous organic compounds
Carbon oxides
Hydrogen cyanide (hydrocyanic acid)
(traces)

## 11. TOXICOLOGICAL INFORMATION

**Data for PEBAX® 7033 SA 01 MED**

**Acute toxicity**

**Oral:**
No deaths occurred. (Rat) LD0 > 4,000 mg/kg.

**Skin Irritation:**
Not irritating. (Rabbit) Irritation Index: 0/8. (4 h)

**Eye Irritation:**
Causes mild eye irritation. (Rabbit)

**Skin Sensitization:**
Not a sensitizer. Guinea pig maximization test. No skin allergy was observed

**Genotoxicity**

**Assessment in Vitro:**
No genetic changes were observed in a laboratory test using: bacteria

**Assessment in Vivo:**
No genetic changes were observed in a laboratory test using: mice

**Other information**
The information presented is from representative materials with this Chemical Abstract Service (CAS) Registry number. The results vary depending on the size and composition of the test substance.

## 12. ECOLOGICAL INFORMATION

**Chemical Fate and Pathway**
No data are available.

**Ecotoxicology**
No data are available.

## 13. DISPOSAL CONSIDERATIONS

**Waste disposal:**
Where possible recycling is preferred to disposal or incineration. If recycling is not an option, incinerate or dispose of in accordance with federal, state, and local regulations. Pigmented, filled and/or solvent laden product may require special disposal practices in accordance with federal, state and local regulations. Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits. Note: Chemical additions to, processing of, or otherwise altering this material may make this waste management information incomplete, inaccurate, or otherwise inappropriate. Furthermore, state and local waste disposal requirements may be more restrictive or otherwise different from federal laws and regulations.

## 14. TRANSPORT INFORMATION

**US Department of Transportation (DOT):** not regulated

**International Maritime Dangerous Goods Code (IMDG):** not regulated

## 15. REGULATORY INFORMATION

**Chemical Inventory Status**

| | | |
|---|---|---|
| EU. EINECS | EINECS | Conforms to |
| United States TSCA Inventory | TSCA | The components of this product are all on the TSCA Inventory. |
| Canadian Domestic Substances List (DSL) | DSL | All components of this product are on the Canadian DSL |
| China. Inventory of Existing Chemical Substances in China (IECSC) | IECSC (CN) | Conforms to |
| Japan. ENCS - Existing and New Chemical Substances Inventory | ENCS (JP) | Conforms to |

| | | |
|---|---|---|
| Japan. ISHL - Inventory of Chemical Substances | ISHL (JP) | Conforms to |
| Korea. Korean Existing Chemicals Inventory (KECI) | KECI (KR) | Conforms to |
| Philippines Inventory of Chemicals and Chemical Substances (PICCS) | PICCS (PH) | Conforms to |
| Australia Inventory of Chemical Substances (AICS) | AICS | Conforms to |

**United States – Federal Regulations**

**SARA Title III – Section 302 Extremely Hazardous Chemicals:**

The components in this product are either not SARA Section 302 regulated or regulated but present in negligible concentrations.

**SARA Title III - Section 311/312 Hazard Categories:**
No SARA Hazards

**SARA Title III – Section 313 Toxic Chemicals:**
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) - Reportable Quantity (RQ):**

The components in this product are either not CERCLA regulated, regulated but present in negligible concentrations, or regulated with no assigned reportable quantity.

**United States – State Regulations**

**New Jersey Right to Know**

No components are subject to the New Jersey Right to Know Act.

**Pennsylvania Right to Know**

| Chemical name | CAS-No. |
|---|---|
| Hexanedioic acid, polymer with azacyclotridecan-2-one and .alpha.-hydro-.omega.-hydroxypoly(oxy-1,4-butanediyl) | 77402-38-1 |

**California Prop. 65**
This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive defects.

## 16. OTHER INFORMATION

**Latest Revision(s):**

Reference number: 000000043617

Date of Revision: 11/10/2016
Date Printed: 11/16/2016

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