



## RILSAN (R) BMNO P40 TL POLYAMIDE RESIN

Material Safety Data Sheet

Arkema Inc.

### 1 PRODUCT AND COMPANY IDENTIFICATION

#### Technical Polymers

Arkema Inc.  
2000 Market St.,  
Philadelphia, PA 19103-3222

#### EMERGENCY PHONE NUMBERS:

Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887  
Medical: Rocky Mountain Poison Control Center  
(866) 767-5089 (24Hrs)

Information Telephone Numbers	Phone Number	Available Hrs
Engineering Polymers (Pebax & Rilsan)	(800) 932 - 0420	Mon - Fri 8:00am - 6:00pm EST
Fluoropolymers (Kynars)	(800) 722 - 9668	Mon - Fri 8:00am - 6:00pm EST

Product Name RILSAN (R) BMNO P40 TL POLYAMIDE RESIN

Product Synonym(s)

Chemical Family Polyamide

Chemical Formula

Chemical Name See Composition

EPA Reg Num

Product Use

### 2 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name	CAS RegistryNumber	Typical Wt. %	OSHA
Polyamide 11	25587-80-8	>84	N
N-Butylbenzenesulfonamide	3622-84-2	<14	Y
N-Stearoyl-p-aminophenol	103-99-1	<2	Y

The substance(s) marked with a "Y" in the OSHA column, are identified as hazardous chemicals according to the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200)

While this material is not classified as hazardous under Federal OSHA regulations, this MSDS contains valuable information critical to the safe handling and proper use of this product. This MSDS should be retained and available for employees and other users of this product.

The components of this product are all on the TSCA Inventory list.

### 3 HAZARDS IDENTIFICATION

#### Emergency Overview

Translucent Pellets

#### CAUTION!

MELT PROCESSING RELEASES VAPORS WHICH MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION

#### Potential Health Effects

Inhalation and skin contact are expected to be the primary routes of occupational exposure to this material. As a finished product, it is a synthetic, high molecular weight polymer. Due to its chemical and physical properties, this material does not require special handling other than the good industrial hygiene and safety practices employed with



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any industrial material of this type. Under normal processing conditions, this material will release fume or vapor. Components of these releases may vary with processing time and temperatures. These process releases may produce eye, skin and/or respiratory tract irritation and, with repeated or prolonged exposures, nausea, drowsiness, headache and weakness.

### 4 FIRST AID MEASURES

IN CASE OF CONTACT, flush the area with plenty of water. Remove material from clothing. Wash clothing before reuse.

IF SWALLOWED, induce vomiting immediately as directed by medical personnel. Get medical attention. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

IF INHALED, remove to fresh air.

### 5 FIRE FIGHTING MEASURES

#### Fire and Explosive Properties

Auto-Ignition Temperature	NE	
Flash Point	NE	Flash Point Method
Flammable Limits- Upper	NA	
Lower	NA	

#### Extinguishing Media

Use water spray, carbon dioxide, foam or dry chemical.

#### Fire Fighting Instructions

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). Fire fighting equipment should be thoroughly decontaminated after use.

#### Fire and Explosion Hazards

When burned, the following hazardous products of combustion can occur: Oxides of carbon and nitrogen

### 6 ACCIDENTAL RELEASE MEASURES

#### In Case of Spill or Leak

Contain spill. Sweep or scoop up and remove to suitable container. 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.

### 7 HANDLING AND STORAGE

#### Handling

Avoid contact. 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. Process using adequate ventilation.

#### Storage

Store in a cool, dry place. This material is not hazardous under normal storage conditions; however, material should be stored in closed containers, in a secure area to prevent container damage and subsequent spillage.



## 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

### Engineering Controls

Investigate engineering techniques to reduce exposures. Provide ventilation if necessary to minimize exposure. Dilution ventilation is acceptable, but local mechanical exhaust ventilation preferred, if practical, at sources of air contamination such as open process equipment.

### Eye / Face 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.

### Skin Protection

Minimize skin contamination by following good industrial hygiene practice. Wearing protective gloves is recommended. Wash hands and contaminated skin thoroughly after handling.

### Respiratory Protection

Avoid breathing processing fumes or vapors. Where airborne exposure is likely, use NIOSH approved respiratory protective equipment appropriate to the material and/or its components and substances released during processing. If exposures cannot be kept at a minimum with engineering controls, consult respirator manufacturer to determine appropriate type equipment for a given application. Observe respirator use limitation specification by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure, 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.

### Airborne Exposure Guidelines for Ingredients

The components of this product have no established Airborne Exposure Guidelines

- Only those components with exposure limits are printed in this section.
- Skin contact limits designated with a "Y" above have skin contact effect. Air sampling alone is insufficient to accurately quantitate exposure. Measures to prevent significant cutaneous absorption may be required.
- ACGIH Sensitizer designator with a value of "Y" above means that exposure to this material may cause allergic reactions.
- WEEL-AIHA Sensitizer designator with a value of "Y" above means that exposure to this material may cause allergic skin reactions.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Odor	Translucent Pellets
pH	
Specific Gravity	1.0-1.5
Vapor Pressure	NE
Vapor Density	NE
Melting Point	175-190 deg C
Freezing Point	
Boiling Point	NE
Solubility In Water	Negligible
Evaporation Rate	NE
Percent Volatile	NE

## 10 STABILITY AND REACTIVITY

### Stability

This material is chemically stable under normal and anticipated storage and handling conditions.

### Hazardous Polymerization

Does not occur.

### Incompatibility

Contact with acids and strong oxidizing agents may cause a low energy release.

### Hazardous Decomposition Products

Oxides of carbon and nitrogen can be liberated at high temperatures.

## 11 TOXICOLOGICAL INFORMATION

### Toxicological Information

Data on this material and/or its components are summarized below. Polyamide 11  
Single exposure (acute) studies indicate that this material is non-irritating to rabbit skin (4-hr exposure; 0/8). No genetic changes were observed in tests using bacteria. N-Stearoyl-p-aminophenol  
Single exposure (acute) studies indicate that this material is practically non-toxic if swallowed (rat LD50 > 11,000 mg/kg). N,N-Butylbenzenesulfonamide  
Single exposure (acute) studies indicate that this material is slightly toxic if swallowed (rat LD50 2,050 mg/kg) and moderately toxic at elevated temperatures if inhaled (rat 4-hr approximate lethal concentration 0.385 mg/l when heated to the temperature of 564 deg F). No genetic changes were observed in tests using bacteria.

## 12 ECOLOGICAL INFORMATION

### Ecotoxicological Information

No ecological effect studies have been conducted on this material and no information was found in a search of the scientific literature. Under normal conditions of use the component(s) of this material are contained within the polymer matrix. Although ecological exposure to this material is anticipated to be minimal, the data are summarized below. N,N-Butylbenzenesulfonamide  
At a concentration of 5 ppm, this material had no effect on bluegill sunfish during a 24-hour static toxicity test. It was reported to cause death or obvious distress in rainbow trout after 2 hours exposure and in sea lamprey larvae after 14 hours exposure. N-Stearoyl-p-aminophenol  
Chinook salmon died following exposure to 10 ppm this material for 11-15 hours.

### Chemical Fate Information

No data are available.

## 13 DISPOSAL CONSIDERATIONS

### Waste Disposal

Recover, reclaim or recycle when practical. Dispose of in an approved landfill if allowed locally. Comply with federal, state, and local regulations. Dispose of in a permitted waste management facility if incineration or landfill is not practical.

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

DOT Name Not Regulated  
DOT Technical Name  
DOT Hazard Class  
UN Number  
DOT Packing Group PG  
RQ

## 15 REGULATORY INFORMATION

### Hazard Categories Under Criteria of SARA Title III Rules (40 CFR Part 370)

Immediate (Acute) Health	N	Fire	N
Delayed (Chronic) Health	N	Reactive	N
		Sudden Release of Pressure	N

The components of this product are all on the TSCA Inventory list.

### Ingredient Related Regulatory Information:

#### SARA Reportable Quantities

	CERCLA RQ	SARA TPQ
N-Stearoyl-p-aminophenol	NE	
N-Butylbenzenesulfonamide	NE	
Polyamide 11	NE	

## 16 OTHER INFORMATION

### Revision Information

Revision Date 11 OCT 2004 Revision Number 4  
Supersedes Revision Dated 27-SEP-2001

### Revision Summary

ATOFINA Chemicals, Inc. has changed its name to Arkema Inc..

### Key

NE= Not Established NA= Not Applicable (R) = Registered Trademark



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+188-1699-6168 (ShangHai)  
+852-6957-5415 (HongKong)

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### Arkema Inc.

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