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 $\label{eq:decomposition} Date: 13/06/2023 \qquad \qquad \text{If this fax is not for your attention, please transfer it to the appropriate person}$ 

From:

To:

The Site Manager

Company: ARKEMA Inc.

Company:

PALMER HOLLAND

**Technical Polymers** 

Email:

Fax:

1-440-686-2180

arkema.phil-msdssend@arkema.com

Subject: Distribution of Safety Data Sheets

Dear Sir or Madam:

Enclosed is the most current edition of the Safety Data Sheets for the specified Product(s): ORGASOL® 2001 UD NAT 2

At Arkema Inc., we continuously strive to improve our product stewardship performance.

This document has been written in accordance with the Occupational Safety and Health Administration's (OSHA) Hazard Communication Standard (29 CFR 1910.1200).

The SDS identifies the hazardous and non-hazardous ingredients of the product, the health hazard data, and safe-handling procedures that are associated with the product. This information should be used to assist you in maintaining a safe working environment for your employees.

This product complies with Toxic Substances Control Act (TSCA) Inventory requirements. One or more of the polymer components are eligible for the amended polymer exemption at 40 CFR §723.250.

Because the conditions of handling and use are beyond our control, we make no guarantee of results and assume no liability for injuries, damages, or penalties resulting from the use whether or not our suggestions are followed. Such recommendations are not to be taken as a license to operate under or to infringe any patent.

If additional SDSs are necessary, they can be downloaded from our website at: www.arkemainc.com. Please use this customer code ["0083120"] to acquire the SDSs for materials you purchase from Arkema Inc.

Very Truly Yours,

**Technical Polymers** 

**Customer Service Department** 

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## SAFETY DATA SHEET

## ORGASOL® 2001 UD NAT 2

## 1. PRODUCTAND 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:** ORGASOL® 2001 UD NAT 2

Synonyms: Not available Molecular formula: Proprietary Chemical family: polyamide

Product use: Coatings, Composite materials

## 2. HAZARDS IDENTIFICATION

## **Emergency Overview**

Color: white Physical state: solid Form: powder Odor: none

## \*Classification of the substance or mixture:

See Supplemental Hazard Statements below.

### **GHS-Labelling**

Signal word: Warning

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### SAFETY DATA SHEET

## ORGASOL® 2001 UD NAT 2

## Hazard statements:

This material is considered hazardous under the OSHA Hazard Communication Standard criteria, based on hazard(s) not otherwise classified.

## Supplemental Hazard Statements:

May form combustible dust concentrations in air.

Processing may release vapors and/or fumes which cause eye, skin and respiratory tract irritation.

## Supplementalinformation:

## **Potential Health Effects:**

The product, in the form supplied, is not anticipated to produce significant adverse human health effects. Contains high molecular weight polymer(s). Effects due to processing releases: 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. (powder) Mechanical irritation effects from dust exposure are possible at ambient temperature. This product may release fume and/or vapor of variable composition depending on processing time and temperature.

## 3.COMPOSITION/INFORMATIONONINGREDIENTS

ChemicalName	CAS-No.	WtWt	GHSClassification**
Nylon copolymer	Proprietary*	>= 97 %	Not classified
Silane, dichlorodimethyl-, reaction products with silica	68611-44-9	<= 2 %	Not classified
Water	7732-18-5	<= 1 %	Not classified

\*The specific chemical identity is withheld because it is trade secret information of Arkema Inc.

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### SAFETY DATA SHEET

## ORGASOL® 2001 UD NAT 2

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

## 4. FIRSTAID 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 if applicable) 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.FIREFIGHTINGMEASURES**

#### Extinguishing media (suitable):

Water spray

## Extinguishing media (unsuitable):

High volume water jet

#### 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:

Do not use a solid stream of water.

A solid stream of water can cause a dust explosion.

Fire fighting equipment should be thoroughly decontaminated after use.

## Fire and explosion hazards:

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## ORGASOL® 2001 UD NAT 2

Dust clouds generated during handling and/or storage can form explosive mixtures with air. Dust explosion characteristics vary with the particle size, particle shape, moisture content, contaminants, and other variables. Note: Check that all equipment is properly grounded and installed to satisfy electrical classification requirements. As with any dry material, pouring this material or allowing it to free-fall or to be conveyed through chutes or pipes can accumulate and generate electrostatic sparks, potentially causing ignition of the material itself, or of any flammable materials which may come into contact with the material or its container.

When burned, the following hazardous products of combustion can occur:

Carbon oxides

Hydrogen cyanide (hydrocyanic acid) (traces)

Hydrocarbons

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. Evacuate area of all unnecessary personnel. Ventilate the area. Eliminate all ignition sources. Avoid dust formation and dispersal of dust in the air. Wet down (dampen) the spilled material with water. Sweep or scoop up using non-sparking tools and place into suitable properly labeled containers for prompt disposal. The sweepings should be wetted down further with water. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Implement workplace practices such that dusts are not allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. 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.

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### SAFETY DATA SHEET

## ORGASOL® 2001 UD NAT 2

## 7. HANDLING AND STORAGE

## <u>Handling</u>

## General information on handling:

Avoid breathing dust.

Avoid breathing processing fumes or vapors.

Keep away from heat, sparks and flames.

Keep container closed.

Avoid creating dust in handling, transfer or clean up.

Prevent dust accumulation.

Implement routine housekeeping practices to ensure that dusts do not accumulate on surfaces.

Check that all equipment is properly grounded and installed to satisfy electrical classification requirements.

Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations.

Container hazardous when empty.

Follow label warnings even after container is emptied.

RESIDUAL DUSTS MAY EXPLODE ON IGNITION.

DO NOT CUT, DRILL, GRIND, OR WELD ON OR NEAR THIS CONTAINER.

Improper disposal or reuse of this container may be dangerous and/or illegal.

Emptied container retains product residue.

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. Store in well ventilated area away from heat and sources of ignition such as flame, sparks and static electricity. Ensure that all storage and handling equipment is properly grounded and installed to satisfy electrical classification requirements. Static electricity may accumulate when transferring material. All metal and groundable storage containers, including but not limited to drums, cylinders, Returnable Intermodal Bulk Containers (RIBCs) and Class C Flexible Intermodal Bulk Containers (FIBCs) must be bonded and grounded during filling and emptying operations. Observe all federal, state and local regulations and National Fire Protection Association (NFPA) Codes, which pertain to the specific local conditions of storage and use, including NFPA 654.

#### Storage stability - Remarks:

Stable under recommended storage conditions.

## Storage incompatibility - General:

None known.

### Temperature tolerance - Do not store above:

140 °F (60 °C)

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## ORGASOL® 2001 UD NAT 2

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## **Airborne Exposure Guidelines:**

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

US. ACGIH Threshold Limit Values

Form: Respirable particles.

Time weighted average 3 mg/m3

Form: Inhalable particles.

Time weighted average 10 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

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

Form: Total dust

Time weighted average 50millions of particles per cubic foot of air

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

Form: Respirable fraction.

Time weighted average 5 mg/m3

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

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.

Check that all dust control equipment such as local exhaust ventilation, material transport systems, and air-

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## ORGASOL® 2001 UD NAT 2

material separation devices involved in handling this product contain explosion relief vents or an explosion suppression system or an oxygen-deficient environment. Isolation devices may be appropriate to prevent propagation from one unit to another. Ensure that dust-handling systems are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). Consult ACGIH ventilation manual, NFPA Standard 91 and NFPA Standard 654 for design of exhaust system and safe handling.

## 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: white

Physical state: solid

Form: powder

Odor: none

Odor threshold: No data available

Flash point Not applicable

Auto-ignition > 752 °F (400 °C)

temperature:

Lower flammable limit

(LFL):

30 g/m3

Upper flammable limit

(UFL):

No data available

pH: > 4 Aqueous suspension

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### SAFETY DATA SHEET

## ORGASOL® 2001 UD NAT 2

**Density:** 1.020 - 1.150 g/cm3 (68 °F (20 °C))

Specific Gravity (Relative

density):

No data available

**Bulk density:** 200 - 500 kg/m3 68 °F (20 °C)

Boiling point/boiling

range:

No data available.

**Melting point/range:** 320 - 392 °F (160 - 200 °C)

Freezing point: No data available.

Evaporation rate: No data available

**Solubility in water:** < 1 mg/l 68 °F (20 °C) (Method: estimation) insoluble (on the basis of its structure)

Solubility in other solvents: [qualitative and

quantative]

Soluble in:

Mineral acids

Phenols

Insoluble in :

Alkaline conditions

Chlorinated solvents

Most organic solvents

Viscosity, dynamic: No data available

Particle size: 5 - 60 µm

Oil/water partition

coefficient:

No data available.

Thermaldecomposition: 698 °F (370 °C)

Flammability: See GHS Classification in Section 2 if applicable

Minimum ignition energy: 1 - 10 mJ (Method: Standard CEI1241-2-3 - NF EN 18821-2002 )

Other physical data: Dust explosion class St2 Standards ISO 6184-1 - NF EN 26184-1 - ASTM E 1226

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## SAFETY DATA SHEET

## ORGASOL® 2001 UD NAT 2

## 10. STABILITY AND REACTIVITY

## Stability:

This material is chemically stable under normal and anticipated storage, handling and processing 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:

Carbon oxides

Ammonia

Amino derivatives

Hydrogen cyanide (hydrocyanic acid)

(traces)

Hazardous organic compounds

Hydrocarbons

### 11. TOXICOLOGICAL INFORMATION

Data on this material and/or its components are summarized below.

#### Data for Nylon copolymer (Proprietary)

## **Acute toxicity**

#### Oral

Practically nontoxic. (rat) LD50 > 5,000 mg/kg.

#### Dermal:

No deaths occurred. (rat) LD0 = 2,000 mg/kg.

#### Inhalation:

No deaths occurred. (rat) 4 h LC0 = 0.059 mg/l. (dust/mist, maximum achieved concentration)

### Skin Irritation:

Practically non-irritating, (rabbit) (4 h)

## Eye Irritation:

Causes mild eye irritation. (rabbit) (Direct contact with product, powder)

#### Skin Sensitization:

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## ORGASOL® 2001 UD NAT 2

Not a sensitizer. Guinea pig maximization test. No skin allergy was observed.

## 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.

#### Human experience

## Skin contact:

Skin: No skin allergy was observed, Non-irritating. occluded exposure (studied using human volunteers)

## Data for Silane, dichlorodimethyl-, reaction products with silica (68611-44-9)

#### **Acute toxicity**

## Oral:

Practically nontoxic. (rat) LD50 > 5,000 mg/kg.

#### Inhalation:

No deaths occurred. (rat) 4 h LC0 >= 477 mg/l. (Water insoluble, dust)

## Skin Irritation:

Not irritating. (rabbit)

#### Eye Irritation:

Not irritating. (rabbit)

## Repeated dose toxicity

Repeated inhalation administration to rat / affected organ(s): lung, lymph node / signs: deposits of test material, increased organ weight, changes in organ structure or function / (reversible)

Repeated oral administration to rat / No adverse systemic effects reported.

## Carcinogenicity

Chronic oral administration to rat / No increase in tumor incidence was reported.

## Genotoxicity

#### Assessment in Vitro:

No genetic changes were observed in laboratory tests using: bacteria, animal cells

### Reproductive effects

Reproduction test. Oral (rat) / No toxicity to reproduction

#### 12. ECOLOGICAL INFORMATION

## **Chemical Fate and Pathway**

No data are available.

#### **Ecotoxicology**

Data on this material and/or its components are summarized below.

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## SAFETY DATA SHEET

## ORGASOL® 2001 UD NAT 2

## Data for Silane, dichlorodimethyl-, reaction products with silica (68611-44-9)

## Aquatic toxicity data:

No effect up to the limit of solubility. Danio rerio (zebra fish) 96 h NOEC > 10,000 mg/l (nominal concentrations reported)

## Aquatic invertebrates:

No effect up to the limit of solubility. Daphnia magna (Water flea) 24 h NOEC > 10,000 mg/l (nominal concentrations reported)

### Algae:

No effect up to the limit of solubility. Scenedesmus subspicatus 72 h NOEC > 10,000 mg/l (nominal concentrations reported)

#### 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**

US. Toxic Substances Control Act TSCA This product complies with TSCA

Inventory requirements. The polymer component(s) is (are) eligible for the amended polymer exemption at 40 CFR

Section 723.250.

Canadian Domestic Substances List (DSL)

DSL

All components of this product are on the

Canadian DSL

China. Inventory of Existing Chemical Substances in IECSC (CN) Conforms to

China (IECSC)

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## SAFETY DATA SHEET

## ORGASOL® 2001 UD NAT 2

Japan. ENCS - Existing and New Chemical ENCS (JP) Conforms to Substances Inventory

Substances inventory

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 PICCS (PH) The mixture contains a polymer. All the Substances (PICCS) monomers for this polymer & other

monomers for this polymer & other substances are listed on the inventory.

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:

Fire Hazard

#### 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.

 Nylon copolymer
 Proprietary

#### 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

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### SAFETY DATA SHEET

## ORGASOL® 2001 UD NAT 2

Miscellaneous:

Other information: Refer to National Fire Protection Association (NFPA) Code 654,

Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate

Solids, for safe handling.

Latest Revision(s):

 Reference number:
 200006734

 Date of Revision:
 02/05/2021

 Date Printed:
 02/05/2021

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The statements, technical information and recommendations contained herein are believed to be accurate as of the date hereof. Since the conditions and methods of use of the product and of the information referred to herein are beyond our control, ARKEMA expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information; NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE GOODS DESCRIBED OR THE INFORMATION PROVIDEDHEREIN. The information provided herein relates only to the specific product designated and may not be applicable when such product is used in combination with other materials or in any process. The user should thoroughly test any application before commercialization. Nothing contained herein constitutes a license to practice under any patent and it should not be construed as an inducement to infringe any patent and the user is advised to take appropriate steps to be sure that any proposed use of the product will not result in patent infringement. See SDS for Health & Safety Considerations.

Arkema has implemented a Medical Policy regarding the use of Arkema products in Medical Devices applications that are in contact with the body or circulating bodily fluids (http://www.arkema.com/en/social-responsibility/responsible-product-management/medical-device-policy/index.html) Arkema has designated Medical grades to be used for such Medical Device applications. Products that have not been designated as Medical grades are not authorized by Arkema for use in Medical Device applications that are in contact with the body or circulating bodily fluids. In addition, Arkema strictly prohibits the use of any Arkema products in Medical Device applications that are implanted in the body or in contact with bodily fluids or tissues for greater than 30 days. The Arkema trademarks and the Arkema name shall not be used in conjunction with customers' medical devices, including without limitation, permanent or temporary implantable devices, and customers shall not represent to anyone else, that Arkema allows, endorses or permits the use of Arkema products in such medical devices.

It is the sole responsibility of the manufacturer of the medical device to determine the suitability (including biocompatibility) of all raw materials, products and components, including any medical grade Arkema products, in order to ensure that the final end-use product is safe for its end use; performs or functions as intended; and complies with all applicable legal and regulatory requirements (FDA or other national drug agencies). It is the sole responsibility of the manufacturer of the medical device to conduct all necessary tests and inspections and to evaluate the medical device under actual end-use requirements and to adequately advise and warm purchasers, users, and/or learned intermediaries (such as physicians) of pertinent risks and fulfill any postmarket surveillance obligations. Any decision regarding the appropriateness of a particular Arkema material in a particular medical device should be based on the judgment of the manufacturer, seller, the competent authority, and the treating physician.