

**1. PRODUCT AND COMPANY IDENTIFICATION****Company**

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

Thio and Fine Chemicals

**Customer Service Telephone Number:** (800) 628-4453  
(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:** SPOTLEAK® 1007

**Synonyms:** Not available

**Molecular formula:** Mixture

**Chemical family:** mercaptans

**Product use:** Odour agents

**2. HAZARDS IDENTIFICATION****Emergency Overview**

**Color:** colourless

**Physical state:** liquid

**Odor:** strong, stinging

**\*Classification of the substance or mixture:**

Flammable liquid., Category 2, H225  
Skin sensitisation, Category 1, H317  
Chronic aquatic toxicity, Category 2, H411

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

**GHS-Labeling**

Hazard pictograms:



Signal word: **Danger**

**Hazard statements:**

H225 : Highly flammable liquid and vapour.  
H317 : May cause an allergic skin reaction.  
H411 : Toxic to aquatic life with long lasting effects.

**Supplemental Hazard Statements:**

Objectionable odor may cause nausea, headache or dizziness.  
May displace oxygen and cause rapid suffocation.

**Precautionary statements:****Prevention:**

P210 : Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
P233 : Keep container tightly closed.  
P240 : Ground/bond container and receiving equipment.  
P241 : Use explosion-proof electrical/ ventilating/ lighting/ equipment.  
P242 : Use only non-sparking tools.  
P243 : Take precautionary measures against static discharge.  
P261 : Avoid breathing gas/mist/vapours/spray.  
P264 : Wash skin thoroughly after handling.  
P272 : Contaminated work clothing should not be allowed out of the workplace.  
P273 : Avoid release to the environment.  
P280 : Wear protective gloves/ eye protection/ face protection.

**Response:**

P303 + P361 + P353 : IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P305 + P351 + P338 : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P333 + P313 : If skin irritation or rash occurs: Get medical advice/ attention.  
P337 + P313 : If eye irritation persists: Get medical advice/ attention.  
P363 : Wash contaminated clothing before reuse.  
P370 + P378 : In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.  
P391 : Collect spillage.

**Storage:**

P403 + P235 : Store in a well-ventilated place. Keep cool.

**Disposal:**

P501 : Dispose of contents/ container to an approved waste disposal plant.

**Supplemental information:****Potential Health Effects:**

Objectionable odor may cause nausea, headache or dizziness. Vapor is heavier than air and can cause suffocation by reducing oxygen available for breathing.  
May also cause: chest discomfort, accumulation of fluid in the lungs, (severity of effects depends on extent of exposure).

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**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS-No.	Wt/Wt	GHS Classification**
2-Propanethiol, 2-methyl-	75-66-1	>= 79 - <= 80 %	H225, H317, H411
Ethane, (methylthio)-	624-89-5	>= 19 - < 20 %	H225, H319, H412

\*\*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. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Skin:**

In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Thoroughly clean shoes before reuse.

**Eyes:**

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

**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):**

Carbon dioxide (CO2), Foam, Dry chemical

**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:**

Cool closed containers exposed to fire with water spray.

Do not use a solid water stream as it may scatter and spread fire.

Closed containers of this material may explode when subjected to heat from surrounding fire.

After a fire, wait until the material has cooled to room temperature before initiating clean-up activities.

Do not allow run-off from fire fighting to enter drains or water courses.

Fire fighting equipment should be thoroughly decontaminated after use.

**Fire and explosion hazards:**

Vapors are heavier than air and may travel along the ground or be moved by ventilation and ignited by heat, pilot lights, and other flames and ignition sources at locations distant from material handling point.

Vapours may form explosive mixture with air.

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

Carbon oxides

sulfur oxides

hydrogen sulfide

**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. Eliminate all ignition sources. Ventilate area only if odor control is not an issue. Cover spill area with closed-cell foam to reduce odors (use of Aqueous Film Forming Foam (AFFF) with polymeric layer is acceptable). If foam is unavailable, absorb spill with liquid-binding material (e.g. diatomaceous earth, saw dust universal binder) and deodorize residue on ground with 3-10% hydrogen peroxide. Wash with water and recover it. If spill is contained within a large containment area, add 5% bleach solution (sodium hypochlorite) in a 50 parts bleach solution to one part product dilution ratio. Swimming pool chemicals (hypochlorite compounds) work effectively in deodorizing product. If these are applied to product, the crystals must be accompanied by sufficient water of dilution so that the considerable heat of reaction will be absorbed. Enzyme or bacteria based deodorizers are also acceptable for use. Sweep or scoop up using non-sparking tools and place into suitable properly labeled containers for prompt disposal. Place waste materials into Department of Transportation (DOT)-approved drums for disposal. 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 vapor or mist.  
Avoid contact with eyes.  
Avoid prolonged or repeated contact with skin.  
Keep away from heat, sparks and flames.  
No smoking.  
Keep container closed.  
Use only with adequate ventilation.  
Wash thoroughly after handling.  
Check that all equipment is properly grounded and installed to satisfy electrical classification requirements.  
Container hazardous when empty.  
Emptied container retains vapor and product residue.  
Follow label warnings even after container is emptied.  
Do not enter confined spaces unless adequately ventilated.  
RESIDUAL VAPORS 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.

**Storage****General information on storage conditions:**

Keep in a dry, cool place. Keep away from direct sunlight. Keep container closed when not in use. Store in closed containers, in a secure area to prevent container damage and subsequent spillage. 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 OSHA 29 CFR 1910.106 and NFPA 30, 70, 77, and 497.

**Storage incompatibility – General:**

Store separate from: Strong oxidizing agents

Acids (concentrated solutions)

Alkaline earth metals

Bases

Reducing agents

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Airborne Exposure Guidelines:****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.

Monitor carbon monoxide and oxygen levels in tanks and enclosed spaces. Consult ACGIH ventilation manual or NFPA Standard 91 for design of exhaust systems.

**Respiratory protection:**

Avoid breathing vapor or mist. 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. Full facepiece equipment is recommended and, if used, replaces need for face shield and/or chemical goggles. 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:**

Wear appropriate chemical resistant protective clothing and chemical resistant gloves to prevent skin contact. Consult glove manufacturer to determine appropriate type glove material for given application. Wear chemical goggles, a face shield, and chemical resistant clothing such as a rubber apron when splashing may occur. Rinse immediately if skin is contaminated. Remove contaminated clothing immediately and wash before reuse. Clean protective equipment before reuse. Provide a safety shower at any location where skin contact can occur. Wash thoroughly after handling.

**Eye protection:**

Where there is potential for eye contact, wear chemical goggles and have eye flushing equipment immediately available.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Color:</b>	colourless
<b>Physical state:</b>	liquid
<b>Odor:</b>	strong, stinging
<b>Odor threshold:</b>	0.1 ppb
<b>Flash point</b>	< 0 °F (< -18 °C) (Tag closed cup)
<b>Auto-ignition temperature:</b>	460 °F (238 °C)
<b>Lower flammable limit (LFL):</b>	Not determined
<b>Upper flammable limit (UFL):</b>	Not determined
<b>pH:</b>	not determined
<b>Density:</b>	not determined
<b>Specific Gravity (Relative</b>	0.815 (68 °F( 20 °C))

**density):**

<b>Vapor pressure:</b>	294 mmHg (100 °F (38 °C))
<b>Relative vapor density:</b>	3 (Air = 1.0)
<b>Vapor density:</b>	not determined
<b>Boiling point/boiling range:</b>	145 - 158 °F (63 - 70 °C)
<b>Melting point/range:</b>	not determined
<b>Freezing point:</b>	< -51 °F (< -46 °C)
<b>Evaporation rate:</b>	No data available
<b>Solubility in water:</b>	68 °F (20 °C) insoluble
<b>Solubility in other solvents: [qualitative and quantitative]</b>	Soluble in: Alcohols Ethyl ether
<b>Refractive index:</b>	1.427 68 °F (20 °C)
<b>Viscosity, dynamic:</b>	0.55 mPa.s 68 °F (20 °C)
<b>Oil/water partition coefficient:</b>	No data available
<b>Thermal decomposition</b>	No data available
<b>Flammability:</b>	See GHS Classification in Section 2

**10. STABILITY AND REACTIVITY****Stability:**

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

**Hazardous reactions:**

None known.

**Materials to avoid:**

- Reacts violently with :  
Strong oxidizing agents  
Acids (concentrated solutions)  
Bases  
Reducing agents  
Alkaline earth metals

**Conditions / hazards to avoid:**

Keep away from heat and sources of ignition. To avoid thermal decomposition, do not overheat.

**Hazardous decomposition products:**

Thermal decomposition giving flammable and toxic products  
Carbon oxides  
sulfur oxides  
hydrogen sulfide

**11. TOXICOLOGICAL INFORMATION**

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

**Data for SPOTLEAK® 1007****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) 1 h LC0 > 20 mg/l.

**Eye Irritation:**

Causes mild eye irritation. (rabbit)

**Data for 2-Propanethiol, 2-methyl- (75-66-1)****Acute toxicity****Oral:**

May be harmful if swallowed. (rat) LD50 = 4,729 mg/kg.

**Dermal:**

No deaths occurred. (rabbit) LD0 > 2,000 mg/kg.

**Inhalation:**

Practically nontoxic. (rat) 4 h LC50 = 82 - 98 mg/l. (vapor)

**Skin Irritation:**

Not irritating. (rabbit) Irritation Index: 0/8. (4 h) (occluded exposure)

**Eye Irritation:**

Causes mild eye irritation. (rabbit)

**Skin Sensitization:**

May cause an allergic skin reaction. Buehler method. (guinea pig) Skin allergy was observed.

May cause allergic skin reaction. LLNA: Local Lymph Node Assay. (mouse) Produced an allergic reaction.

**Repeated dose toxicity**



**SPOTLEAK® 1007**

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Subchronic inhalation administration to rat / affected organ(s): kidney / signs: inflammation, degeneration, increased organ weight / (not considered relevant to humans)

Repeated oral administration to rat / affected organ(s): kidney / signs: hyaline droplet nephropathy / (not considered relevant to humans)

**Genotoxicity****Assessment in Vitro:**

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

**Genotoxicity****Assessment in Vivo:**

No genetic changes were observed in laboratory tests using: mice

**Developmental toxicity**

Exposure during pregnancy. inhalation (rat and mouse) / No birth defects were observed.  
Reproductive/Developmental Effects Screening Assay. oral (rat) / No birth defects were observed.

**Reproductive effects**

Reproductive/Developmental Effects Screening Assay. oral (rat) / No toxicity to reproduction.

**Other information**

Due to the viscosity, this substance may present an aspiration hazard.  
Symptoms of aspiration may include increased breathing and heart rate, coughing and related signs of respiratory distress.

**Data for Ethane, (methylthio)- (624-89-5)****Acute toxicity****Oral:**

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

**Dermal:**

Practically nontoxic. (rat) LD0 > 2,000 mg/kg.

**Inhalation:**

Practically nontoxic. (rat) 4 h LC0 > 21.7 mg/l. (vapor)

**Skin Irritation:**

Causes mild skin irritation. (rabbit) Irritation Index: 3,4/8,0. (4 h)

**Eye Irritation:**

Causes serious eye irritation. (rabbit) Irritation Index: 16/110. (24 h)

**Skin Sensitization:**

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

**Genotoxicity****Assessment in Vitro:**

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

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**Other information**

Due to the viscosity, this substance may present an aspiration hazard.  
Symptoms of aspiration may include increased breathing and heart rate, coughing and related signs of respiratory distress.

**12. ECOLOGICAL INFORMATION****Chemical Fate and Pathway**

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

**Data for 2-Propanethiol, 2-methyl- (75-66-1)****Biodegradation:**

Not readily biodegradable. (63 d) biodegradation 6 %

**Data for Ethane, (methylthio)- (624-89-5)****Biodegradation:**

Not readily biodegradable. (28 d) biodegradation 41 %

**Octanol Water Partition Coefficient:**

log Pow = 1.54

**Ecotoxicology**

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

**Data for 2-Propanethiol, 2-methyl- (75-66-1)****Aquatic toxicity data:**

Harmful. *Oncorhynchus mykiss* (rainbow trout) 96 h LC50 = 34 mg/l

**Aquatic invertebrates:**

Toxic. *Daphnia magna* (Water flea) 48 h EC50 = 6.7 mg/l

**Algae:**

Harmful. *Pseudokirchneriella subcapitata* (green algae) 72 h EC50 = 24 mg/l

**Data for Ethane, (methylthio)- (624-89-5)****Aquatic toxicity data:**

Practically nontoxic. *Danio rerio* (zebra fish) 96 h LC0 > 49.8 mg/l

**Aquatic invertebrates:**

Harmful. *Daphnia magna* (Water flea) 48 h EC50 = 16 mg/l

**Algae:**

Practically nontoxic. *Pseudokirchneriella subcapitata* (green algae) 72 h ErC50 > 500 mg/l

**Microorganisms:**

Respiration inhibition / Activated sludge 3 h EC50 > 1,000 mg/l

**Chronic toxicity to aquatic plants:**

Practically nontoxic. *Pseudokirchneriella subcapitata* (green algae) 72 d NOEC (growth rate) = 76 mg/l

**13. DISPOSAL CONSIDERATIONS**

**Waste disposal:**

Disposal via incineration is recommended. Dispose of 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.

Take appropriate measures to prevent release to the environment.

**14. TRANSPORT INFORMATION**

**US Department of Transportation (DOT)**

UN Number : 3336  
 Proper shipping name : Mercaptan, liquid, flammable, n.o.s.  
 Technical name : (tert-Butylmercaptan, Methylethyl sulfide)  
 Class : 3  
 Packaging group : II  
 Marine pollutant : yes

**International Maritime Dangerous Goods Code (IMDG)**

UN Number : 3336  
 Proper shipping name : MERCAPTANS, LIQUID, FLAMMABLE, N.O.S.  
 Technical name : (t-BUTYLMERCAPTAN, METHYL ETHYL SULPHIDE)  
 Class : 3  
 Packaging group : II  
 Marine pollutant : yes  
 Flash point : < 0 °F (< -18 °C) Tag closed cup

**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:**

Acute Health Hazard, 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):**

<u>Chemical name</u>	<u>CAS-No.</u>	<u>Reportable quantity</u>
Benzene	71-43-2	10 lbs
2-Propanethiol, 2-methyl-	75-66-1	100 lbs

**United States – State Regulations**

**New Jersey Right to Know**

<u>Chemical name</u>	<u>CAS-No.</u>
2-Propanethiol, 2-methyl-	75-66-1

**New Jersey Right to Know – Special Health Hazard Substance(s)**

<u>Chemical name</u>	<u>CAS-No.</u>
2-Propanethiol, 2-methyl-	75-66-1

**Pennsylvania Right to Know**

<u>Chemical name</u>	<u>CAS-No.</u>
2-Propanethiol, 2-methyl-	75-66-1
Ethane, (methylthio)-	624-89-5
Benzene	71-43-2

**Pennsylvania Right to Know – Environmentally Hazardous Substance(s)**

<u>Chemical name</u>	<u>CAS-No.</u>
Benzene	71-43-2

**Pennsylvania Right to Know – Special Hazardous Substance(s)**

<u>Chemical name</u>	<u>CAS-No.</u>
Benzene	71-43-2

**California Prop. 65**

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

<u>Chemical name</u>	<u>CAS-No.</u>
Benzene	71-43-2

<b>16. OTHER INFORMATION</b>
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**Full text of H-Statements referred to under sections 2 and 3.**

H225	Highly flammable liquid and vapour.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Miscellaneous:

Other information:	Refer to National Fire Protection Association (NFPA) Codes 30, 70, 77, and 497 and OSHA 29 CFR 1910.106, for safe handling.
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**Latest Revision(s):**

Revised Section(s):	Wave 2 Chapter 4 update
Reference number:	000000035652
Date of Revision:	07/19/2016
Date Printed:	07/19/2016

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*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 warn 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.*