

# SPEEDCURE EDB

## 1. PRODUCT AND COMPANY IDENTIFICATION

### Company

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

Sartomer

**Customer Service Telephone Number:** (800) SARTOMER  
(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:** SPEEDCURE EDB  
**Synonyms:** Benzoic acid, 4-(dimethylamino)-, ethyl ester  
**Molecular formula:** Complex Substance  
**Chemical family:** Amine Synergists  
**Product use:** Process regulators, used in vulcanization or polymerization processes

## 2. HAZARDS IDENTIFICATION

### Emergency Overview

**Color:** white  
**Physical state:** solid  
**Form:** Crystalline powder  
**Odor:** odourless

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

Reproductive toxicity, Category 1B, H360  
Chronic aquatic toxicity, Category 2, H411

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

Product code: LAM182

Version 1.0

Issued on: 03/27/2020

Page: 1 / 12

## SPEEDCURE EDB

### GHS-Labeling

Hazard pictograms:



Signal word:

**Danger**

### Hazard statements:

H360 : May damage fertility or the unborn child.

H411 : Toxic to aquatic life with long lasting effects.

### Supplemental Hazard Statements:

May form combustible dust concentrations in air.

### Precautionary statements:

#### **Prevention:**

P201 : Obtain special instructions before use.

P202 : Do not handle until all safety precautions have been read and understood.

P273 : Avoid release to the environment.

P281 : Use personal protective equipment as required.

#### **Response:**

P308 + P313 : IF exposed or concerned: Get medical advice/ attention.

P391 : Collect spillage.

#### **Storage:**

P405 : Store locked up.

#### **Disposal:**

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

### Supplemental information:

#### **Potential Health Effects:**

Mechanical irritation effects from dust exposure are possible at ambient temperature.

#### **Other:**

Product code: LAM182

Version 1.0

Issued on: 03/27/2020

Page: 2 / 12

## SPEEDCURE EDB

Handle in accordance with good industrial hygiene and safety practice. (powder)

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	Wt/Wt	GHS Classification**
Benzoic acid, 4-(dimethylamino)-, ethyl ester	10287-53-3	>= 99 %	H360, H411

\*\*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. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse.

##### **Eyes:**

Immediately flush eye(s) with plenty of water.

##### **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.

## SPEEDCURE EDB

### 5. FIREFIGHTING MEASURES

**Extinguishing media (suitable):**

Carbon dioxide (CO<sub>2</sub>), 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:**

Do not use a solid stream of water.

A solid stream of water can cause a dust explosion.

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:**

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

Hazardous organic compounds

Nitrogen oxides (NO<sub>x</sub>)

### 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.

Product code: LAM182

Version 1.0

Issued on: 03/27/2020

Page: 4 / 12

# SPEEDCURE EDB

## 7. HANDLING AND STORAGE

### Handling

#### **General information on handling:**

Do not taste or swallow.  
 Do not get in eyes, on skin, or on clothing.  
 Do not breathe dust.  
 Keep away from heat, sparks and flames.  
 Keep container closed.  
 Use only with adequate ventilation.  
 Wash thoroughly after handling.  
 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.

### 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 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:**

Store separate from:  
 Strong oxidizing agents  
 Strong reducing agents  
 Strong acids  
 Strong alkalies

# SPEEDCURE EDB

## 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.

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

Do not breathe dust. 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. Rinse immediately if skin is contaminated. Wash contaminated clothing and clean protective equipment before reuse. Provide a safety shower at any location where skin contact can occur. Wash thoroughly after handling.

#### **Eye protection:**

Where eye contact may be likely, wear chemical goggles and have eye flushing equipment available.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Color:</b>	white
<b>Physical state:</b>	solid
<b>Form:</b>	Crystalline powder
<b>Odor:</b>	odourless
<b>Odor threshold:</b>	No data available.
<b>Flash point</b>	No data available

Product code: LAM182

Version 1.0

Issued on: 03/27/2020

Page: 6 / 12

# SPEEDCURE EDB

<b>Auto-ignition temperature:</b>	No data available.
<b>Lower flammable limit (LFL):</b>	No data available.
<b>Upper flammable limit (UFL):</b>	No data available.
<b>pH:</b>	No data available.
<b>Density:</b>	No data available.
<b>Specific Gravity (Relative density):</b>	No data available
<b>Bulk density:</b>	500 kg/m <sup>3</sup>
<b>Vapor pressure:</b>	0.004 mmHg (77 °F (25 °C))
<b>Vapor density:</b>	No data available.
<b>Boiling point/boiling range:</b>	> 230 °F (110 °C) Decomposes before boiling.
<b>Melting point/range:</b>	144 - 154 °F (62 - 68 °C)
<b>Freezing point:</b>	No data available.
<b>Evaporation rate:</b>	No data available.
<b>Solubility in water:</b>	77 mg/l 68 °F (20 °C)
<b>Viscosity, dynamic:</b>	No data available.
<b>Particle size:</b>	D10 : 24 µm D50 : 61 µm D90 : 120 µm
<b>Oil/water partition coefficient:</b>	log Pow: 3.2
<b>Thermal decomposition:</b>	No data available.
<b>Flammability:</b>	See GHS Classification in Section 2 if applicable

## 10. STABILITY AND REACTIVITY

Product code: LAM182

Version 1.0

Issued on: 03/27/2020

Page: 7 / 12

# SPEEDCURE EDB

**Stability:**

The product is stable under normal handling and storage conditions.

**Hazardous reactions:**

Hazardous polymerization does not occur.

**Materials to avoid:**

Strong oxidizing agents  
Strong reducing agents  
Strong acids  
Strong alkalies

**Conditions / hazards to avoid:**

Avoid exposure to high temperatures or direct sunlight.

**Hazardous decomposition products:**

Thermal decomposition giving flammable and toxic products :  
Carbon oxides  
Hazardous organic compounds  
Nitrogen oxides (NO<sub>x</sub>)

<b>11. TOXICOLOGICAL INFORMATION</b>
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Data on this material and/or a similar material are summarized below.

**Data for SPEEDCURE EDB**

**Acute toxicity**

**Oral:**

No deaths occurred. (rat) LD<sub>0</sub> = 2,000 mg/kg.

**Dermal:**

No deaths occurred. (rat) LD<sub>0</sub> = 2,000 mg/kg.

**Skin Irritation:**

Not irritating. (rabbit) OECD Test Guideline 404 (4 h)

**Eye Irritation:**

Causes mild eye irritation. (rabbit) OECD Test Guideline 405

**Skin Sensitization:**

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

**Repeated dose toxicity**

Repeated oral administration to rat / affected organ(s): spleen, testes / signs: changes in body weight, changes in blood cell counts, changes in organ structure or function

**Genotoxicity**

Product code: LAM182

Version 1.0

Issued on: 03/27/2020

Page: 8 / 12



## SPEEDCURE EDB

**Assessment in Vitro:**

No genetic changes were observed in laboratory tests using: bacteria

Both positive and negative responses for genetic changes were observed in laboratory tests using: animal cells

**Assessment in Vivo:**

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

**Developmental toxicity**

Reproductive/Developmental Effects Screening Assay. Oral (rat) / No birth defects were observed.

**Reproductive effects**

Reproductive/Developmental Effects Screening Assay. Oral (rat) / May damage fertility. (testicular changes)

**Human experience**

**Skin contact:**

Patch test on human volunteers did not demonstrate irritating properties..

<b>12. ECOLOGICAL INFORMATION</b>
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**Chemical Fate and Pathway**

Data on this material and/or a similar material are summarized below.

**Data for SPEEDCURE EDB**

**Biodegradation:**

Not readily biodegradable. (28 d) biodegradation 40 % / OECD Test Guideline 301 B

**Octanol Water Partition Coefficient:**

log Pow: = 3.2

**Ecotoxicology**

Data on this material and/or a similar material are summarized below.

**Data for SPEEDCURE EDB**

**Aquatic toxicity data:**

Toxic. Oncorhynchus mykiss (rainbow trout) 96 h LC50 = 1.9 mg/l

**Aquatic invertebrates:**

Harmful. Daphnia magna (Water flea) 48 h EC50 = 31.8 mg/l (Nominal concentration)

Toxic. Daphnia magna (Water flea) 48 h EC50 = 4.5 mg/l

**Algae:**

Toxic. Pseudokirchneriella subcapitata (green algae) 72 h EC50 = 2.8 mg/l

Product code: LAM182

Version 1.0

Issued on: 03/27/2020

Page: 9 / 12

## SPEEDCURE EDB

### 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** : 3077  
**Proper shipping name** : Environmentally hazardous substance, solid, n.o.s.  
**Technical name** : (4-(Dimethylamino)-benzoic Acid Ethyl Ester)  
**Class** : 9  
**Packaging group** : III  
**Marine pollutant** : yes

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

**UN Number** : 3077  
**Proper shipping name** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
**Technical name** : (4-(DIMETHYLAMINO)-BENZOIC ACID ETHYL ESTER)  
**Class** : 9  
**Packaging group** : III  
**Marine pollutant** : yes

### 15. REGULATORY INFORMATION

**Chemical Inventory Status**

US. Toxic Substances Control Act	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

Product code: LAM182

Version 1.0

Issued on: 03/27/2020

Page: 10 / 12

## SPEEDCURE EDB

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:**

Fire Hazard, Chronic Health 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**

<u>Chemical name</u>	<u>CAS-No.</u>
Benzoic acid, 4-(dimethylamino)-, ethyl ester	10287-53-3

#### **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.

<b>16. OTHER INFORMATION</b>
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Product code: LAM182

Version 1.0

Issued on: 03/27/2020

Page: 11 / 12

# SPEEDCURE EDB

**Full text of H-Statements referred to under sections 2 and 3.**

H360 May damage fertility or the unborn child.  
H411 Toxic to aquatic life with long lasting effects.

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: 200018858  
Date of Revision: 03/27/2020  
Date Printed: 03/27/2020

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*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.*

Product code: LAM182

Version 1.0

Issued on: 03/27/2020

Page: 12 / 12