

**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, 8:30 AM to 5:30 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:** SARET® SR522 D  
**Synonyms:** Acrylic ester dispersion w/scorth retardant  
**Molecular formula:** Complex mixture  
**Chemical family:** Mixture  
**Product use:** rubber industry, Plastic materials industry

**2. HAZARDS IDENTIFICATION**

**Emergency Overview**

**Color:** off-white  
**Physical state:** solid  
**Form:** powder  
**Odor:** acrylic-like

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

Skin irritation, Category 2, H315  
Eye irritation, Category 2A, H319  
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:

**Warning****Hazard statements:**

- H315 : Causes skin irritation.
- H317 : May cause an allergic skin reaction.
- H319 : Causes serious eye irritation.
- H411 : Toxic to aquatic life with long lasting effects.

**Supplemental Hazard Statements:**

Processing may release vapors and/or fumes which cause eye, skin and respiratory tract irritation. May form combustible dust concentrations in air.

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

- 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 eye protection/ face protection.
- P280 : Wear protective gloves.

**Response:**

- P302 + P352 : IF ON SKIN: Wash with plenty of soap and water.
- 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.
- P362 : Take off contaminated clothing and wash before reuse.
- P391 : Collect spillage.

**Disposal:**

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

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

Possible cross sensitization with other acrylates and methacrylates. 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:**

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**
Acrylate ester	Proprietary*	>= 60 - <= 100 %	H315, H317, H319
Silica gel, pptd., cryst.-free	112926-00-8	>= 10 - < 30 %	Not classified
2,6-di-tert-butyl-alpha-dimethylamino-p-cresol	88-27-7	>= 1 - < 5 %	H303, H319, H317, H400, H410

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

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

**4. FIRST AID MEASURES**

**Inhalation:**

If inhaled, remove victim to fresh air.

**Skin:**

In case of contact, immediately flush skin with plenty of water. Get medical attention. Remove contaminated clothing and shoes. 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.

**5. FIREFIGHTING MEASURES**

**Extinguishing media (suitable):**

Water spray, Carbon dioxide (CO<sub>2</sub>), Foam, Dry chemical

**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:**

Fight fire from a protected location.

Cool closed containers exposed to fire with water spray.

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

Fire fighting equipment should be thoroughly decontaminated after use.

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

Do not use a solid stream of water.

A solid stream of water can cause a dust explosion.

**Fire and explosion hazards:**

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

Carbon oxides

Hazardous organic compounds

Polymerization is exothermic and can degenerate into an uncontrolled reaction.

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.

**6. ACCIDENTAL RELEASE MEASURES****In case of spill or leak:**

Prevent further leakage or spillage if you can do so without risk. Ventilate the area. Avoid dust formation and dispersal of dust in the air. Sweep or scoop up using non-sparking tools and place into suitable properly labeled containers for prompt disposal. The sweepings should be wetted down with water. 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. 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.

**7. HANDLING AND STORAGE****Handling****General information on handling:**

Avoid breathing dust.  
Avoid contact with skin, eyes and clothing.  
Wash thoroughly after handling.  
Emptied container retains product residue.  
Observe all labeled safeguards until container is cleaned, reconditioned or destroyed.  
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.  
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.

**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:**

Inhibitor levels should be maintained. The typical shelf-life for this product is 6 months.

**Storage incompatibility – General:**

Store separate from:

Strong oxidizing agents

Strong reducing agents

Free radical generators

Inert gas

Oxygen scavenger.

Peroxides

**Temperature tolerance – Do not store below:–**

32 °F (0 °C)

**Temperature tolerance – Do not store above:**  
100 °F (38 °C)

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Airborne Exposure Guidelines:****Silica gel, pptd., cryst.-free (112926-00-8)**

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

Time weighted average	20millions of particles per cubic foot of air
Time weighted average	0.8 mg/m <sup>3</sup>

**Remarks:** The exposure limit is calculated from the equation,  $80/(\%SiO_2)$ , using a value of 100% SiO<sub>2</sub>. Lower values of % SiO<sub>2</sub> will give higher exposure limits.

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-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. 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 recommended). 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. Avoid natural rubber gloves. 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 there is potential for eye contact, wear chemical goggles and have eye flushing equipment immediately available.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Color:</b>	off-white
<b>Physical state:</b>	solid
<b>Form:</b>	powder
<b>Odor:</b>	acrylic-like
<b>Odor threshold:</b>	No data available
<b>Flash point</b>	No data available
<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>	~ 7
<b>Density:</b>	No data available
<b>Specific Gravity (Relative density):</b>	1.230 (77 °F( 25 °C))
<b>Vapor pressure:</b>	No data available
<b>Vapor density:</b>	No data available
<b>Boiling point/boiling range:</b>	No data available
<b>Freezing point:</b>	No data available
<b>Melting point/range:</b>	No data available
<b>Evaporation rate:</b>	No data available
<b>Solubility in water:</b>	negligible
<b>Oil/water partition</b>	No data available

**coefficient:****Thermal decomposition** No data available**Flammability:** 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. However, this material can undergo hazardous polymerization.

**Hazardous reactions:**

Hazardous polymerisation may occur.

Polymerization is exothermic and can degenerate into an uncontrolled reaction.

**Materials to avoid:**

Strong oxidizing agents  
Strong reducing agents  
Free radical generators  
Inert gas  
Oxygen scavenger.  
Peroxides

**Conditions / hazards to avoid:**

This material polymerizes exothermically in the presence of heat, contamination, oxygen free atmosphere, free radicals, peroxides and inhibitor depletion liberating heat. Avoid direct sunlight. Do NOT expose to ultraviolet light.

**Hazardous decomposition products:**

Thermal decomposition giving flammable and toxic products:

Carbon oxides  
Acrylates  
Hazardous organic compounds

**11. TOXICOLOGICAL INFORMATION**

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

**Data for SARET® SR522 D****Acute toxicity****Oral:**

Acute toxicity estimate > 5,000 mg/kg.

**Dermal:**

Acute toxicity estimate > 5,000 mg/kg.

**Data for Acrylate ester (Proprietary)**



**Acute toxicity****Skin Irritation:**

Causes skin irritation. (estimate based on composition)

**Eye Irritation:**

Severely irritating (estimate based on composition)

**Skin Sensitization:**

May cause an allergic skin reaction. (estimate based on composition)

**Other information**

Possible cross sensitization with other acrylates and methacrylates

The information presented is from representative materials in this chemical class. The results may vary depending on the test substance. Effects due to processing releases or residual monomer:

**Data for Silica gel, pptd., cryst.-free (112926-00-8)****Acute toxicity****Inhalation:**

No deaths occurred. (rat) 4 h LC0 > 2.08 mg/l.

**Skin Irritation:**

Practically non-irritating. (Rabbit) Irritation Index: 0-2 / 8. (4 h)

**Eye Irritation:**

Causes mild eye irritation. (rabbit)

**Repeated dose toxicity**

Repeated dietary administration to Rat / No adverse systemic effects reported.

Repeated inhalation administration to Rat / affected organ(s): lung, lymph node / signs: inflammation / No adverse systemic effects reported. (Local effects, reversible)

**Carcinogenicity**

Chronic dietary administration to rat and mouse / affected organ(s): lung / signs: No increase in tumor incidence was reported.

Classified by the International Agency for Research on Cancer as: Group 3: Unclassifiable as to carcinogenicity in humans.

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

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

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

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

**Developmental toxicity**

Exposure during pregnancy. Oral (rat, rabbit, hamster, mouse) / No birth defects were observed.

**Other information**

Information given is based on data obtained from similar substances.

**Human experience****Inhalation:**

Respiratory system: No increase in tumor incidence was reported. No significant impairment of lung function. (based on reports of occupational exposure to workers)

**Data for 2,6-di-tert-butyl-alpha-dimethylamino-p-cresol (88-27-7)****Acute toxicity****Skin Irritation:**

Practically non-irritating (Rabbit) (4 h) (occluded exposure)

**Eye Irritation:**

Causes serious eye irritation. (Rabbit)

**Skin Sensitization:**

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

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

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

**Data for 2,6-di-tert-butyl-alpha-dimethylamino-p-cresol (88-27-7)****Biodegradation:**

Not readily biodegradable. / calculated

**Octanol Water Partition Coefficient:**

log Pow 4.24 (calculated)

**Ecotoxicology**

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

**Data for Silica gel, pptd., cryst.-free (112926-00-8)****Aquatic toxicity data:**

No effect up to the limit of solubility. Brachydanio rerio (zebrafish) 96 h LC0 > 10,000 mg/l (nominal concentrations reported)

**Aquatic invertebrates:**

No effect up to the limit of solubility. Daphnia (water flea) 24 h LC0 > 10,000 mg/l (nominal concentrations reported)

**Data for 2,6-di-tert-butyl-alpha-dimethylamino-p-cresol (88-27-7)****Aquatic toxicity data:**

Very toxic. Fish 96 h LC50 = 0.907 - 2.092 mg/l (calculated)

**Aquatic invertebrates:**

Very toxic. Daphnia magna (Water flea) 48 h LC50 = 0.335 - 0.746 mg/l (calculated)

**Algae:**

Very toxic. 96 h EC50 = 0.297 - 2.76 mg/l (calculated)

**Microorganisms:**

Activated sludge 3 h IC50 (Respiration inhibition) > 100 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 : 3077  
Proper shipping name : Environmentally hazardous substances, solid, n.o.s.  
Technical name : (2,6-di-tert-butyl-alpha-dimethylamino-p-cresol)  
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 : (2,6-DI-TERT-BUTYL-A-DIMETHYLAMINO-P-CRESOL)  
Class : 9  
Packaging group : III  
Marine pollutant : yes

**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.

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Canadian Domestic Substances List (DSL)	DSL	This product contains one or several components listed in the Canadian NDSL list. All other components are on the DSL list.
China. Inventory of Existing Chemical Substances in China (IECSC)	IECSC (CN)	Does not conform
Japan. Kashin-Hou Law List	ENCS (JP)	Conforms to
Japan. ISHL - Inventory of Chemical Substances	ISHL (JP)	Conforms to
Korea. Korean Existing Chemicals Inventory (KECI)	KECI (KR)	Does not conform
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	PICCS (PH)	Does not conform
Australia Inventory of Chemical Substances (AICS)	AICS	Does not conform

**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:**

Reactivity Hazard, 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):**

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**

<u>Chemical Name</u>	<u>CAS-No.</u>
Silica gel, pptd., cryst.-free	112926-00-8

**Pennsylvania Right to Know**

<u>Chemical Name</u>	<u>CAS-No.</u>
Acrylate ester	Proprietary
Silica gel, pptd., cryst.-free	112926-00-8
2,6-di-tert-butyl-alpha-dimethylamino-p-cresol	88-27-7

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

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
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.
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**Latest Revision(s):**

Reference number:	000000081369
Date of Revision:	03/12/2015
Date Printed:	03/12/2015

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