

**SR350****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:** SR350  
**Synonyms:** Trimethylolpropane trimethacrylate  
**Molecular formula:** C<sub>18</sub>H<sub>28</sub>O<sub>6</sub>  
**Chemical family:** METHACRYLATE ESTER  
**Product use:** Adhesives and/or sealants, Coatings, Inks, Paints, elastomers

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

**Color:** light yellow  
**Physical state:** liquid  
**Odor:** acrylic-like

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

Chronic aquatic toxicity, Category 2, H411

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

**SR350****GHS-Labeling**

Hazard pictograms:

**Hazard statements:**

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.

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

P273 : Avoid release to the environment.

**Response:**

P391 : Collect spillage.

**Disposal:**

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

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

Effects due to processing releases or residual monomer: Irritating to eyes, respiratory system and skin. Possible cross sensitization with other acrylates and methacrylates.

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**

Product code: FP01117-P

Version 1.5

Issued on: 11/30/2018

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Chemical Name	CAS-No.	Wt/Wt	GHS Classification**
2-Propenoic acid, 2-methyl-, 2-ethyl-2- [[[(2-methyl-1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester	3290-92-4	<= 100 %	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.

**5. FIREFIGHTING MEASURES**

**Extinguishing media (suitable):**

Water spray, Carbon dioxide (CO2), Foam, Dry chemical

**Protective equipment:**

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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.

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:**

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.

**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. Ventilate the area. Avoid generation of vapors. Contain and collect spillage with non-combustible absorbent material such as clean sand, earth, diatomaceous earth or non-acidic clay and place into suitable properly labeled containers for prompt 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 processing fumes or vapors.

Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure and removal of material from eyes, skin, and clothing.

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

Store out of direct sunlight in a cool well-ventilated place. Keep stabilizer levels constant to avoid explosive polymerization. An air space is required above the liquid in all containers; avoid storage under an oxygen-free atmosphere.

**Storage stability – Remarks:**

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

**Storage incompatibility – General:**

Store separate from:

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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:**

**2-Propenoic acid, 2-methyl-, 2-ethyl-2-[[[(2-methyl-1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester (3290-92-4)**

US. OARS. WEELs Workplace Environmental Exposure Level Guide

Skin designation Remarks:	Can be absorbed through the skin.
Time weighted average Remarks:	1 mg/m3 Avoid skin or eye contact with liquids or aerosols.
Remarks:	Listed

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.

**Respiratory protection:**

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,

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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. Consult glove manufacturer to determine appropriate type glove material for given application. Avoid natural rubber gloves. 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**

<b>Color:</b>	light yellow
<b>Physical state:</b>	liquid
<b>Odor:</b>	acrylic-like
<b>Odor threshold:</b>	No data available
<b>Flash point</b>	280 °F (138 °C) (Method: Pensky-Martens closed cup)
<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>	1.061 g/cm <sup>3</sup> (77 °F (25 °C))
<b>Specific Gravity (Relative density):</b>	1.061 (77 °F( 25 °C))Water=1 (liquid)
<b>Vapor pressure:</b>	No data available.
<b>Vapor density:</b>	No data available.
<b>Boiling point/boiling range:</b>	No data available
<b>Melting point/range:</b>	No data available.
<b>Freezing point:</b>	No data available.

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**Evaporation rate:** No data available.

**Solubility in water:** No data available.

**Viscosity, dynamic:** 35 - 55 mPa.s 77 °F (25 °C)

**Oil/water partition coefficient:** log Pow: = 2.7 - 4.2(Method: OECD Test Guideline 117)

**Thermal decomposition:** No data available.

**Flammability:** See GHS Classification in Section 2 if applicable

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

**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  
Methacrylates  
Hazardous organic compounds

**11. TOXICOLOGICAL INFORMATION**

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

**Data for SR350**

**Acute toxicity**

**Oral:**

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

**SR350****Dermal:**

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

**Inhalation:**

No deaths occurred. (rat) 8 h LC<sub>0</sub> (saturated vapor)

**Skin Irritation:**

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

**Eye Irritation:**

Causes mild eye irritation. (rabbit) 0.0 - 8.1 / 110.

**Skin Sensitization:**

Not a sensitizer. Guinea pig maximization test. Both positive and negative responses have been reported.

**Repeated dose toxicity**

Repeated dermal administration to mouse / affected organ(s): skin, site of contact / signs: structural organ changes, fibrosis

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

**Carcinogenicity**

Chronic dermal administration to mouse / No increase in tumor incidence was reported. (According to limited available data)

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

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

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

**Assessment in Vivo:**

No genetic changes were observed in laboratory tests using: rats, mice

**Developmental toxicity**

Exposure during pregnancy. Oral (rat) / No birth defects were observed.

**Reproductive effects**

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

**Other information**

Possible cross sensitization with other acrylates and methacrylates.

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

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



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**Data for SR350**

**Biodegradation:**

Not readily biodegradable. (28 d) biodegradation 29 - 53 % / OECD Test Guideline 301B

**Octanol Water Partition Coefficient:**

log Pow: = 2.7 - 4.2(Method: OECD Test Guideline 117)

**Ecotoxicology**

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

**Data for SR350**

**Aquatic toxicity data:**

Toxic. Oncorhynchus mykiss (rainbow trout) 96 h LC50 = 2 mg/l

**Aquatic invertebrates:**

Toxic. Daphnia magna (Water flea) 48 h EC50 = 9.22 mg/l

**Algae:**

Toxic. Pseudokirchneriella subcapitata (green algae) 72 h EC50 = 1.11 - 3.88 mg/l

**Microorganisms:**

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

**Chronic toxicity to fish:**

Toxic. Pimephales promelas (fathead minnow) 32 d NOEC = 0.138 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** : 3082  
**Proper shipping name** : Environmentally hazardous substance, liquid, n.o.s.  
**Technical name** : (Trimethylolpropane Trimethacrylate)  
**Class** : 9  
**Packaging group** : III  
**Marine pollutant** : yes

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

**UN Number** : 3082  
**Proper shipping name** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
**Technical name** : (TRIMETHYLOLPROPANE TRIMETHACRYLATE)  
**Class** : 9  
**Packaging group** : III  
**Marine pollutant** : yes  
**Flash point** : 280 °F (138 °C)

**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
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:**

Reactivity 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):**

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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>
2-Propenoic acid, 2-methyl-, 2-ethyl-2-[[[(2-methyl-1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester	3290-92-4
Benzene, methyl-	108-88-3

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

<u>Chemical name</u>	<u>CAS-No.</u>
Benzene, methyl-	108-88-3

**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, methyl-	108-88-3

**16. OTHER INFORMATION**

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

H411 Toxic to aquatic life with long lasting effects.

Latest Revision(s):

Reference number:	200003774
Date of Revision:	11/30/2018
Date Printed:	12/01/2018

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 PROVIDED HEREIN.** 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

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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 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.*