

SR350 H

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)

CHEMTREC: (800) 424-9300 (24 hrs., 7 days a week)

(24 hrs., 7 days a week)

Emergency Information

Transportation:

Medical:

Product Information

Product name: Synonyms: Molecular formula: Chemical family: Product use: SR350 H Trimethylolpropane trimethacrylate C18H28O6 METHACRYLATE ESTER

Adhesives and/or sealants, elastomers, Coatings, Inks, Paints

Rocky Mountain Poison Center: (866) 767-5089

2. HAZARDS IDENTIFICATION

Emergency Overview	
Color:	colorless to 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.

GHS-Labelling

Hazard pictograms:



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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/ container to an approved waste disposal plant.

Supplemental information:

Potential Health Effects:

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. Possible cross sensitization with other acrylates and methacrylates

3. COMPOSITION/INFORMATION ON INGREDIENTS

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	

Inhalation:

If inhaled, remove victim to fresh air.

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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.

5. FIREFIGHTING MEASURES

Extinguishing media (suitable):

Water spray, Carbon dioxide (CO2), 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. Fire fighting equipment should be thoroughly decontaminated after use. Do not allow run-off from fire fighting to enter drains or water courses. Closed containers of this material may explode when subjected to heat from surrounding fire. Cool closed containers exposed to fire with water spray.

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

In case of spill or leak:

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.

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7. HANDLING AND STORAGE

<u>Handling</u>

General information on handling:

Avoid breathing fumes or vapors. Avoid breathing mist. 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:

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. AIHA Workplace Environmental Exposure Level (WEEL) Guides

Skin designation Remarks:	Can be ab	Can be absorbed through the skin.		
time weighted average	1 mg/m3	1 mg/m3		
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Remarks:

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 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 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. Avoid breathing fumes or vapors.

Skin protection:

Minimize skin contamination by following good industrial hygiene practice. Wearing protective gloves is recommended. Avoid natural rubber gloves. Wash hands and contaminated skin thoroughly after handling.

Eye protection:

Use good industrial practice to avoid eye contact.

9. PHYSICAL AND CHEMICAL PROPERTIES			
Color:	colorless to light yellow		
Physical state:	liquid		
Odor:	acrylic-like		
Odor threshold:	No data available		
Flash point	> 280 °F (138 °C) (Pensky-Martens closed cup)		
Auto-ignition temperature:	No data available		
Lower flammable limit (LFL):	No data available		
Upper flammable limit (UFL):	No data available		
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pH:	~ 7	
Density:	No data available	
Specific Gravity (Relative density):	1.061 (77 °F(25 °C))	
Vapor pressure:	No data available	
Vapor density:	No data available	
Boiling point/boiling range:	No data available	
Freezing point:	No data available	
Melting point/range:	No data available	
Evaporation rate:	No data available	
Solubility in water:	negligible	
Viscosity, dynamic:	44 mPa.s 77 °F (25 °C) (Method: Brookfield)	
viscosity, dynamic.	44 mra.s // 1 (25 C) (Method. Drookheid)	
Oil/water partition coefficient:	No data available	
Thermal decomposition	402.31 °F (205.73 °C)	
Flammability (solid, gas):	Not relevant	
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.

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Hazardous decomposition products:

Thermal decomposition giving flammable and toxic products: Carbon oxides Methacrylates Hazardous organic compounds

11. TOXICOLOGICAL INFORMATION

Data for SR350 H

Acute toxicity

Oral:

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

Dermal:

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

Inhalation:

No deaths occurred. (rat) 8 h Exposure time (saturated vapor)

Skin Irritation:

Causes mild skin irritation. (rabbit) (4 - 6 h)

Causes skin irritation. (rabbit) (5 d) (Repeated skin exposure)

Eye Irritation:

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

Skin Sensitization:

Not a sensitizer. Guinea pig maximization test. (guinea pig) 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)

Other information

Possible cross sensitization with other acrylates and methacrylates

12. ECOLOGICAL INFORMATION

Chemical Fate and Pathway

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

Data for SR350 H

Biodegradation:

Not readily biodegradable. (28 d) biodegradation 29 - 53 %

Octanol Water Partition Coefficient:

log Pow = 2.7 - 4.2

Ecotoxicology

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

Data for SR350 H

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

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 substances, liquid, n.o.s.
Technical name :	(Trimethylolpropane trimethacrylate)
Class :	9
Packaging group :	III
Marine pollutant :	yes

International Maritime Dangerous Goods Code (IMDG)

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UN Number	:	3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Technical name	:	(Trimethylolpropane trimethacrylate)
Class	:	9
Packaging group	:	
Marine pollutant	:	yes
Flash point	:	> 280 °F (138 °C) Pensky-Martens closed cup

15. REGULATORY INFORMATION

Chemical Inventory Status

EU. EINECS	EINECS	Conforms to
US. Toxic Substances Control Act	TSCA	The components of this product are all on the TSCA Inventory.
Australia. Industrial Chemical (Notification and Assessment) Act	AICS	Conforms to
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)	DSL	All components of this product are on the Canadian DSL.
Japan. Kashin-Hou Law List	ENCS (JP)	Conforms to
Korea. Existing Chemicals Inventory (KECI)	KECI (KR)	Conforms to
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	PICCS (PH)	Conforms to
China. Inventory of Existing Chemical Substances	IECSC (CN)	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:

SARA 313: 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.

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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

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

<u>CAS-No.</u> 3290-92-4

California Prop. 65

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

Chemical Name Benzene, methyl<u>CAS-No.</u> 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:	00000089622
Date of Revision:	04/02/2014
Date Printed:	04/03/2014

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