



SAFETY DATA SHEET

SR533

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: SR533
Synonyms: Triallyl isocyanurate; TAIC
Molecular formula: C₁₂H₁₅N₃O₃
Chemical family: Esters
Product use: Coatings, Inks, Insulation for wire and/or cables, rubber industry

2. HAZARDS IDENTIFICATION**Emergency Overview**

Color: white
Physical state: solid
Form: Wax like
Odor: alcohol-like

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

Oral: Acute toxicity, Category 4, H302
Dermal: Acute toxicity, Category 4, H312
Specific target organ toxicity - repeated exposure, Category 2, H373

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

SR533**GHS-Labeling**

Hazard pictograms:



Signal word:

Warning**Hazard statements:**

H302 + H312 : Harmful if swallowed or in contact with skin

H373 : May cause damage to organs through prolonged or repeated exposure.

Supplemental Hazard Statements:

Processing may release vapors and/or fumes which cause eye, skin and respiratory tract irritation.

Specific target organ toxicity - repeated exposure:

liver.

Precautionary statements:**Prevention:**

P260 : Do not breathe gas/mist/vapours/spray.

P264 : Wash skin thoroughly after handling.

P270 : Do not eat, drink or smoke when using this product.

P280 : Wear protective gloves/ protective clothing.

Response:

P301 + P312 : IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P302 + P352 : IF ON SKIN: Wash with plenty of soap and water.

P314 : Get medical advice/ attention if you feel unwell.

P330 : Rinse mouth.

P363 : Wash contaminated clothing before reuse.

Disposal:

P501 : Dispose of contents/ 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. May cause allergic respiratory reaction.

Prolonged or repeated exposure may cause: headache, drowsiness, nausea, weakness.(severity of effects depends on extent of exposure) .

SR533

Medical conditions aggravated by overexposure:

Respiratory disease or diminished respiratory capacity. Asthma. (Data for residual monomer that may be released during processing)

Other:

This product may release fume and/or vapor of variable composition depending on processing time and temperature. Possible release of traces of residual monomer. Isocyanates may cause acute irritation and/or sensitisation of the respiratory system leading to tightness of the chest, wheeziness and an asthmatic condition.

3. COMPOSITION/INFORMATION ON INGREDIENTS
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Chemical Name	CAS-No.	Wt/Wt	GHS Classification**
1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1,3,5-tri-2-propenyl-	1025-15-6	<= 100 %	H302, H312, H373

**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 plenty of water while removing contaminated clothing and shoes. Get medical attention. Thoroughly clean shoes before reuse. Wash clothing before reuse.

Eyes:

Immediately flush eye(s) with plenty of water.

Ingestion:

If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel. Get medical attention. Never give anything by mouth to an unconscious person. Rinse mouth.

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.

SR533**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:

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.

Fire and explosion hazards:

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

Carbon oxides

Nitrogen oxides

hydrogen cyanide

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.

SR533**7. HANDLING AND STORAGE****Handling****General information on handling:**

Do not taste or swallow.

Avoid breathing vapor or mist.

Avoid contact with skin, eyes and clothing.

Keep container closed.

Use only with adequate ventilation.

Wash thoroughly after handling.

Emptied container retains product residue.

Observe all labeled safeguards until container is cleaned, reconditioned or destroyed.

Viscous materials and those supplied as solids at room temperature may require heating to facilitate handling and transfer from their original containers. This product may be heated to a maximum of 60C/140F for up to 24 hours.

Do NOT use localized heat sources such as band heaters or steam. Use hot boxes or hot rooms for heating or melting. Ensure air space (oxygen) is present during product heating/melting. Do not overheat--this may compromise product quality and/or result in an uncontrolled hazardous polymerization. This product should be consumed in its entirety after heating/melting. Avoid re-heating multiple times; this may cause product degradation. If this product freezes, heat it as specified above and mix gently to redistribute the inhibitor.

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 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 12 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:**

SR533

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 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 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. 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
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Color:	white
Physical state:	solid
Form:	Wax like
Odor:	alcohol-like
Odor threshold:	No data available
Flash point	> 446 °F (230 °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
pH:	~ 7
Density:	1.15 g/cm ³ (86 °F (30 °C))

SR533

Specific Gravity (Relative density):	1.15 (86 °F(30 °C))Water=1 (liquid)
Vapor pressure:	No data available
Vapor density:	No data available
Boiling point/boiling range:	No data available
Melting point/range:	75 °F (24 °C)
Freezing point:	No data available
Evaporation rate:	No data available
Solubility in water:	negligible
Viscosity, dynamic:	70 - 110 mPa.s 86 °F (30 °C) (Method: Brookfield)
Oil/water partition coefficient:	(No data available)
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 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 :

SR533

Carbon oxides
Hydrogen cyanide
Nitrogen oxides
Hazardous organic compounds

11. TOXICOLOGICAL INFORMATION

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

Data for SR533**Acute toxicity****Oral:**

Harmful if swallowed. (Rat) LD50 = 707 mg/kg.

Dermal:

Harmful in contact with skin. (rat) (Rapidly absorbed through skin., Expert judgement)

Skin Irritation:

Causes mild skin irritation. (Rabbit) Irritation Index: 1. (4 h)

Eye Irritation:

Not irritating. (Rabbit) Irritation Index: 0.

Skin Sensitization:

Not a sensitizer. Buehler Test. (Guinea pig) No skin allergy was observed

Repeated dose toxicity

Repeated oral administration to rat / affected organ(s): liver, kidney, spleen, thymus / signs: reduced body weight, clinical chemistry changes, changes in organ weights, changes in organ structure or function

Specific target organ toxicity - repeated exposure:

May cause damage to organs through prolonged or repeated exposure in contact with skin. (liver)

Genotoxicity**Assessment in Vitro:**

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

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

Exposure during pregnancy. Oral (Rat) / No malformations were observed. (delays in development, at doses that produce effects in mothers)

Other information

Can be absorbed through the skin.

SR533**12. ECOLOGICAL INFORMATION****Chemical Fate and Pathway**

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

Data for SR533**Biodegradation:**

Not readily biodegradable. (28 d) biodegradation <= 7 %

Octanol Water Partition Coefficient:

log Pow: 1.6 - 2.277 °F (25 °C) 5.6

Ecotoxicology

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

Data for SR533**Aquatic toxicity data:**

May be harmful. *Oryzias latipes* (Japanese medaka) 96 h LC50 > 95.2 mg/l

Aquatic invertebrates:

Practically nontoxic. *Daphnia magna* (Water flea) 48 h EC50 = 340 mg/l

Algae:

Practically nontoxic. *Pseudokirchneriella subcapitata* 72 h ErC50 (growth rate) > 100 mg/l

Microorganisms:

Activated sludge 3 h EC10 (Respiration inhibition of activated sludge) > 1,000 mg/l

Chronic toxicity to aquatic plants:

Pseudokirchneriella subcapitata (green algae) 72 h NOEC 10 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.

14. TRANSPORT INFORMATION

US Department of Transportation (DOT): not regulated

International Maritime Dangerous Goods Code (IMDG): not regulated

SR533

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.
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, Acute Health 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

SR533

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>
1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1,3,5-tri-2-propenyl-	1025-15-6

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.

H302 Harmful if swallowed.
 H312 Harmful in contact with skin.
 H373 May cause damage to organs through prolonged or repeated exposure.

Latest Revision(s):

Reference number:	200004078
Date of Revision:	03/30/2017
Date Printed:	03/31/2017

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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.



SAFETY DATA SHEET

SR533

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Page: 12 / 12