


# Saret 517 DLC®-A-75

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## 1: Identification

<b>Product identifier:</b>	Saret 517 DLC-A®-75	
<b>Other means of identification:</b>	Propylidynetrimehyl trimethacrylate on silicon dioxide	
<b>Supplier:</b>		NATROCHEM, Inc. P.O. Box 1205 Savannah, GA 31402-1205 912-236-4464
<b>Recommended use:</b>	Plastics, sealants, rubber, elastomers	
<b>Restrictions on use:</b>	Not applicable.	
<b>Emergency phone number:</b>	CHEMTREC (USA)	800-424-9300
	CHEMTREC (Int'l)	202-483-7616

## 2: Hazard(s) identification

<b>GHS classification:</b>	Skin sensitization – Category 1 Chronic aquatic toxicity – Category 2
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### GHS label elements

**Signal word:**

WARNING

**Symbol(s):**



**Hazard statements:**

May cause an allergic skin reaction  
Toxic to aquatic life with long lasting effects  
May form combustible dust concentrations in the air.  
Processing may release vapours and/or fumes which cause eye, skin, and respiratory tract irritation.

**Hazards not otherwise classified:**

**Precautionary statements:**

**Prevention:**

Avoid breathing dust/fume/gas/vapours.  
Contaminated work clothing should not be allowed out of the workplace.  
Avoid release to the environment.  
Wear protective gloves/protective clothing/eye protection/face protection.

**Response:**

IF ON SKIN: Wash with plenty of soap and water.  
If skin irritation or a rash occurs: Get medical advice/attention.  
Wash contaminated clothing before reuse.  
Collect spillage.  
IF exposed or concerned: Call a POISON CENTER/doctor.  
In case of fire: Use water spray, CO<sub>2</sub>, foam, or dry chemical to extinguish.

**Storage:** Store in a dry place. Store in a closed container.  
**Disposal:** Dispose of contents/container in accordance with local/regional/national/international regulations.

### 3: Composition

**Substance/mixture:** Mixture

Ingredient	Synonyms	CAS number	Concentration (%)
2-Propenoic acid, 2-methyl-, 2-ethyl-2-[[[(2-methyl-1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester		3290-92-4	70-74
2,6-tert-butyl-alpha-dimethylamino-p-cresol		88-27-7	0-3
Silica, amorphous, precipitated, and gel		112926-00-8	26-30

Contains no detectable crystalline silica (detection limit <0.01% by weight)

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.**

**Occupational exposure limits, if available, are listed in Section 8.**

### 4: First-aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM, OR PHYSICIAN immediately; have SDS information available. Never give anything by mouth to an unconscious or convulsing person.

#### Description of necessary first aid measures

**Eye contact:** Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.

**Inhalation:** Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular, or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

**Skin contact:** Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.

**Ingestion:** If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

#### Most important symptoms/effects, acute and delayed.

##### Potential acute health effects

<b>Eye contact:</b>	No significant irritation expected other than possible mechanical irritation.
<b>Inhalation:</b>	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat, and lungs.
<b>Skin contact:</b>	Prolonged or repeated contact may dry skin and cause irritation.
<b>Ingestion:</b>	No known significant effects or critical hazards.

**Over-exposure signs/symptoms**

<b>Eye contact:</b>	Adverse symptoms may include the following: Irritation Redness
<b>Inhalation:</b>	Adverse symptoms may include the following: Coughing Respiratory tract irritation
<b>Skin contact:</b>	Adverse symptoms may include the following: Dryness
<b>Ingestion:</b>	No specific data.

**Indication of immediate medical attention and special treatment needed, if necessary**

<b>Notes to physician:</b>	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
<b>Specific treatments:</b>	No specific treatment.
<b>Protection of first-aiders:</b>	No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

## 5: Fire-fighting measures

**Extinguishing media**

<b>Suitable extinguishing media:</b>	Water spray, CO <sub>2</sub> , foam, dry chemical
<b>Unsuitable extinguishing media:</b>	None known.

**Specific hazards arising from the chemical:**

<b>Hazardous thermal decomposition products:</b>	Carbon oxides, hazardous organic compounds. Polymerization is exothermic and can degenerate into an uncontrolled reaction.
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<b>Special protective actions for firefighters:</b>	Fight fire from a protected location. Cool containers exposed to fire with water spray. Do not allow run-off from firefighting to enter drains or water courses. Firefighting equipment should be thoroughly decontaminated after use.
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<b>Special protective equipment for firefighters:</b>	Firefighters and other who may be exposed to products of combustion should wear full firefighting turn-out gear (full Bunker Gear) and self-contained breathing apparatus (pressure demand/NIOSH approved or equivalent).
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## 6: Accidental release measures

### Personal precautions, protective equipment, and emergency procedures

**For non-emergency personnel:** No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Product forms slippery surface when combined with water.

**For emergency responders:** If specialized clothing is required to deal with the spillage, take note of any information in **Section 8** on suitable and unsuitable materials. See also the information immediately above in "For non-emergency personnel".

**Environmental precautions:** Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil, or air).

### Methods and materials for containment and cleaning up

**Small spill:** Vacuum or sweep up material and place in a designated, labeled waste container.

**Large spill:** Vacuum or sweep up material and place in a designated, labeled waste container.

See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

## 7: Handling and storage

### Precautions for safe handling

**Protective measures:** Put on appropriate personal protective equipment (see **Section 8**).  
**Advice on general occupational hygiene:** Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored, and processed. Workers should wash hands and face before eating, drinking, and smoking. Remove contaminated clothing and protective equipment before entering eating areas. When transferring material into flammable solvents, use proper grounding to avoid electrical sparks. Avoid alteration of product properties before use. Calcining (which may result in crystalline silica formation) or mixing with additives may alter toxicological properties.

**Conditions for safe storage, including any incompatibilities:** See also **Section 8** for additional information on hygiene measures. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool, and well-ventilated area away from incompatible materials (see **Section 10**) and food and drink. Keep container tightly closed and sealed until ready for use. Do not store in unlabeled containers. Avoid storage under an oxygen-free atmosphere. Do not store below 32°F (0°C) or above 100°F (38°C).

**Storage stability:** Inhibitor levels should be maintained. The typical shelf life for this product is 6 months.

**Incompatible materials:** Store separate from strong oxidizing agents, strong reducing agents, free radical inhibitors, inert gas, oxygen scavengers, and peroxides.

## 8: Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

<b>Components with limit values that require monitoring at the workplace:</b>	
<b>2-Propenoic acid, 2-methyl-, 2-ethyl-2-[[[(2-methyl-1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester (3290-92-4)</b>	
US OARS WEELs	TWA 1 mg/m <sup>3</sup> Skin designation – can be absorbed through the skin

#### **Recommended monitoring procedures:**

If this product contains ingredients with exposure limits, personal, workplace atmosphere, or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### **Appropriate engineering controls:**

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

#### **Environmental exposure controls:**

Emissions from ventilation or work process equipment should be checked to ensure that they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters, or engineering modifications to process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

#### **Hygiene measures:**

Wash hands, forearms, and face thoroughly after handling chemical products, before eating, smoking, and using the lavatory, and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### **Eye/face protection:**

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases, or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: splash goggles.

### Skin protection

#### **Hand protection:**

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. When handling hot material, wear heat-resistant gloves that are able to withstand the temperature of molten product.

#### **Body protection:**

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

#### **Other skin protection:**

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection:** Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

## 9: Physical and chemical properties

### Appearance

<b>Physical state:</b>	Powder, solid, or granular solid.
<b>Color:</b>	White to yellow.
<b>Odor:</b>	Acrylic-like
<b>Odor threshold:</b>	Not available.
<b>pH:</b>	Not available.
<b>Melting/freezing point:</b>	Not available.
<b>Boiling point and range:</b>	Not available.
<b>Flash point:</b>	Not available.
<b>Evaporation rate:</b>	Not available.
<b>Flammability:</b>	Not available.
<b>Flammability or explosive limits:</b>	Not available.
<b>Vapor pressure:</b>	Not available.
<b>Vapor density:</b>	Not available.
<b>Relative density:</b>	Not available.
<b>Solubility:</b>	Not available.
<b>Partition coefficient: n-octanol/water:</b>	Not available.
<b>Auto-ignition temperature:</b>	Not available.
<b>Decomposition temperature:</b>	Not available.
<b>Viscosity:</b>	Not applicable.

## 10: Stability and reactivity

<b>Reactivity:</b>	No specific test data related to reactivity available for this product or its ingredients.
<b>Chemical stability:</b>	This material is stable under normal and anticipated storage, handling, and processing conditions; however, this material can undergo hazardous polymerization.
<b>Possibility of hazardous reactions:</b>	Hazardous polymerization may occur. Polymerization is exothermic and can degenerate into an uncontrolled reaction.
<b>Conditions to avoid:</b>	High temperature (>800°C) treatment (calcining). Avoid alteration of product properties before use. Calcining (which may result in crystalline silica formation) or mixing with additives may alter toxicological properties. Avoid generating dust.

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.

Refer to protective measures listed in **Sections 7 and 8**.

**Incompatible materials:**

Reactive or incompatible with the following materials: acids, oxidizing materials, strong alkalis, strong reducing agents, free radical generators, inert gas, oxygen scavengers, and peroxides.

**Hazardous decomposition products:**

Carbon oxides  
Acrylates  
Hazardous organic compounds

## 11: Toxicological information

### Information on toxicological effects

#### Acute toxicity

##### Conclusion/summary

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

**Inhalation:** No deaths occurred. (Rat)(8 h saturated vapour)

#### Irritation/corrosion

##### Conclusion/summary

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

**Skin:** Causes mild skin irritation (Rabbit)(4-6 h)  
Causes skin irritation (Rabbit)(5 d)(Repeated skin exposure)

**Eyes:** Causes mild eye irritation (Rabbit)(4-6 h)

**2,6-di-tert-butyl-alpha-dimethylamino-p-cresol**

**Skin:** Practically non-irritating (Rabbit)(4 h occluded exposure)

**Eyes:** Causes serious eye irritation (Rabbit)

#### Sensitization

##### Conclusion/summary:

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

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

**2,6-di-tert-butyl-alpha-dimethylamino-p-cresol**

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

#### Mutagenicity:

##### Conclusion/summary:

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

**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.

**In Vivo:** No genetic changes were observed in laboratory tests using: rats, mice.

#### Carcinogenicity

**Conclusion/summary:**

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

Chronic dermal administration to mouse: No increase in tumor incidence was reported.

**Classification**

Ingredient	OSHA	IARC	NTP
Silica, amorphous, precipitated, and gel	-	3	-

**Carcinogen classification code:**

IARC: 1, 2A, 2B, 3, 4

NTP: [Known/Reasonably anticipated] to be a human carcinogen

OSHA: +

Not listed/regulated: -

**Reproductive toxicity**

**Conclusion/summary:** No known significant effects or critical hazards.

**Teratogenicity**

**Conclusion/summary:** No known significant effects or critical hazards.

**Specific target organ toxicity (single exposure)**

Not available.

**Specific target organ toxicity (repeated exposure)**

Not available.

**Target organs**

Contains material which may cause damage to the following organs: upper respiratory tract, eyes.

**Aspiration hazard**

Not available.

**Information on the likely routes of exposure:**

Routes of entry anticipated: oral, dermal, inhalation.

**Potential acute health effects****Eye contact:**

No significant irritation expected other than possible mechanical irritation.

**Inhalation:**

Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat, and lungs.

**Skin contact:**

Prolonged or repeated contact may dry skin and cause irritation.

**Ingestion:**

No known significant effects or critical hazards.

**Symptoms related to the physical, chemical, and toxicological characteristics****Eye contact:**

Adverse symptoms may include the following:

Irritation

Redness

**Inhalation:**

Adverse symptoms may include the following:

Coughing

Respiratory tract irritation

**Skin contact:**

Adverse symptoms may include the following:

Dryness

**Ingestion:**

No specific data.

**Delayed and immediate effects and also chronic effects from short- and long-term exposure****Conclusion/summary:**

An epidemiological study was conducted which included 165



precipitated silica workers who had been exposed an average time of 8.6 years. Of these 165 workers, 44 had been exposed for an average of 18 years. No adverse effects were noted in complete medical examinations (including chest roentgenograms) of these workers. Pulmonary function decrements were correlated only with smoking and age but not with the degree or duration of dust exposures. Laboratory studies have also been conducted in small animals via inhalation of levels of precipitated silica dust of up to 126 mg/m<sup>3</sup> per periods from six months to two years. Although precipitated silica was temporarily deposited in animals' lungs, most of the deposited material was cleared soon after the dust exposure ended. The results of all studies performed by, or known to, PPG indicated a very low order of pulmonary activity for synthetic precipitated silicas. PPG recommends that persons with breathing problems or lung disease should not work in dusty areas unless a physician approves and certifies their fitness to wear respiratory protection.

#### Short-term exposure

##### **Potential immediate effects**

No significant irritation expected other than possible mechanical irritation.

##### **Potential delayed effects**

Prolonged or repeated contact may dry skin and cause irritation.

#### Long-term exposure

##### **Potential immediate effects**

Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

##### **Potential delayed effects**

Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

#### Potential chronic health effects

##### **General:**

No known significant effects or critical hazards.

##### **Carcinogenicity:**

No known significant effects or critical hazards.

##### **Mutagenicity:**

No known significant effects or critical hazards.

##### **Teratogenicity:**

No known significant effects or critical hazards.

##### **Developmental effects:**

No known significant effects or critical hazards.

##### **Fertility effects:**

No known significant effects or critical hazards.

#### Numerical measures of toxicity

##### Acute toxicity estimates

Not available.

## 12: Ecological information

### Toxicity

Ingredient	Result	Species	Exposure
Silica, amorphous, precipitated, and gel	NOEC > 1000 ppm	Daphnia – <i>daphnia magna</i>	24 hours
	Acute NOEC > 10000 ppm fresh water	Fish	96 hours static
	Acute NOEC > 10000 ppm	Fish – <i>brachydanio rerio</i>	4 days static
2-Propenoic acid, 2-	LC50 2 mg/L	Fish – <i>oncorhynchus</i>	96 hours

methyl-, 2-ethyl-2- [[[(2-methyl-1-oxo-2- propenyl)oxy]methyl]- 1,3-propanediyl ester	EC50 9.22 mg/L	<i>mykiss</i> Daphnia – <i>daphnia magna</i>	48 hours
	EC50 1.11-3.88 mg/L	Algae – <i>pseudokirchneriella subcapitata</i>	72 hours
	EC50 > 1.000 mg/L	Microorganisms	3 hours
2,6-di-tert-butyl- alpha-dimethylamino- p-cresol	LC50 0.907-2.092 mg/L (calculated)	Fish	96 hours
	LC50 0.335-0.746 mg/L (calculated)	Daphnia – <i>daphnia magna</i>	48 hours
	EC50 0.297-2.76 mg/L (calculated)	Algae	96 hours
	LC50 > 100 mg/L	Microorganisms	3 hours

**Persistence and degradability**

Ingredient	Aquatic half-life	Photolysis	Biodegradability
Silica, amorphous, precipitated, and gel	-	-	Not readily
2-Propenoic acid, 2-methyl-, 2-ethyl-2- [[[(2-methyl-1-oxo-2- propenyl)oxy]methyl]- 1,3-propanediyl ester	-	-	Not readily. (28 d) biodegradation 29-53%
2,6-di-tert-butyl- alpha-dimethylamino- p-cresol	-	-	Not readily (calculated)

**Bioaccumulative potential**

Ingredient	LogP <sub>ow</sub>	BCF	Potential
Silica, amorphous, precipitated, and gel	-	0	low
2-Propenoic acid, 2-methyl-, 2-ethyl-2- [[[(2-methyl-1-oxo-2- propenyl)oxy]methyl]- 1,3-propanediyl ester	2.7-4.2	0	low
2,6-di-tert-butyl- alpha-dimethylamino- p-cresol	4.24 (calculated)	0	low

**Mobility in soil**

Soil/water partition coefficient (K<sub>oc</sub>): Not available.

Other adverse effects: No known significant effects or critical hazards.

**13: Disposal considerations**

Disposal methods: Disposal via incineration is recommended. The generation of waste

should be avoided or minimized wherever possible. Disposal of this product, solutions, and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

**Disposal should be in accordance with applicable regional, national, and local laws and regulations.**

**Refer to Sections 6, 7, and 8 for additional information on accidental release measures, handling and storage, and exposure controls.**

## 14: Transport information

	DOT	IMDG	IATA
<b>UN number</b>	3077	3077	No information
<b>UN proper shipping name</b>	Environmentally hazardous substances, solid, n.o.s. (Propylidynetrimethyl trimethacrylate)	Environmentally hazardous substances, solid, n.o.s. (Propylidynetrimethyl trimethacrylate)	-
<b>Transport hazard class(es)</b>	9	9	-
<b>Packing group</b>	III	III	-
<b>Environmental hazards</b>	Yes.	Yes.	-
<b>Marine pollutant substances</b>	Yes.	Yes.	-
<b>Additional information</b>	Not regulated for domestic road/rail/air transport per 49 CFR 171.4 (c) (1)	-	-

**Special precautions for user:**

**Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:**

Not available.

## 15: Regulatory information

### Inventory status

**United States inventory (TSCA 8b):**

All components are listed or exempted.

**Australia inventory (AICS):**

All components are listed or exempted.

**Canada inventory (DSL):**

All components are listed or exempted.

**China inventory (IECSC):**

All components are listed or exempted.

**Europe inventory (REACH):**

All components are listed or exempted.

**Japan inventory (ENCS):**

Please contact your supplier for information on the inventory status of this material.

**Korea inventory (KECI):** All components are listed or exempted.  
**New Zealand inventory (NZIoC):** All components are listed or exempted.  
**Philippines inventory (PICCS):** All components are listed or exempted.

## 16: Other information

### Hazardous Material Identification System (USA)

<b>HEALTH</b>	<b>2</b>
<b>FLAMMABILITY</b>	<b>1</b>
<b>REACTIVITY</b>	<b>2</b>

### PERSONAL PROTECTION

\* - chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on SDSs under 29 CFR 1901.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J.J.Keller 800-327-6868.

**The customer is responsible for determining the PPE code for this material.**

<b>Key to abbreviations:</b>	ATE	Acute toxicity estimate
	BCF	Bioconcentration factor
	GHS	Globally harmonized system of classification and labeling of chemicals
	IATA	International Air Transport Association
	IBC	Intermediate bulk container
	IMDG	International Maritime Dangerous Goods
	LogPow	Logarithm of the octanol/water partition coefficient
	MARPOL 73/78	International convention for the Prevention of Pollution from Ships, 1973, as modified by the Protocol of 1978. (MARPOL = marine pollution)
	UN	United Nations

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