

Safety Data Sheet PP1-USR1 Date of issue: 11/03/2016

**SECTION 1: Identification** 

**Product identifier** 

Product name : Gelest UtenSil® Cure Retarding Agent - R1

Product code : PP1-USR1 Product form : Mixture Physical state : Liquid

Chemical family : ORGANOSILOXANE

Recommended use of the chemical and restrictions on use

Recommended use : Chemical intermediate

For research and industrial use only

#### Details of the supplier of the safety data sheet 1.3.

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USA

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**Emergency telephone number** 

Emergency number : CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International)

## SECTION 2: Hazard(s) identification

#### Classification of the substance or mixture

### **GHS-US** classification

Not classified

#### 2.2. Label elements

# **GHS-US** labeling

No labeling applicable

#### Hazards not otherwise classified (HNOC)

No additional information available

#### 2.4. **Unknown acute toxicity (GHS US)**

No data available

### **SECTION 3: Composition/Information on ingredients**

### **Substance**

Not applicable

#### **Mixture** 3.2.

Name	Product identifier	%	GHS-US classification
Vinyl terminated polydimethylsiloxane	(CAS No) 68083-19-2	75	Not classified
1,3,5,7-Tetravinyl-1,3,5,7-tetramethylcyclotetrasiloxane	(CAS No) 2554-06-5	25	Not classified

Full text of hazard classes and H-statements: see section 16

#### **SECTION 4: First aid measures**

### **Description of first aid measures**

First-aid measures general : Remove contaminated clothing and shoes. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). If possible show this sheet; if not available show packaging or label.

First-aid measures after inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.

First-aid measures after skin contact Wash with plenty of soap and water. Get medical advice/attention.

: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if First-aid measures after eye contact

present and easy to do. Continue rinsing. Get medical advice/attention.

First-aid measures after ingestion : Never give anything by mouth to an unconscious person. Get medical advice/attention.

#### Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : No information available.

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Symptoms/injuries after skin contact : May cause skin irritation. Symptoms/injuries after eye contact : May cause eye irritation. Symptoms/injuries after ingestion : No information available.

#### Indication of any immediate medical attention and special treatment needed

No additional information available

## **SECTION 5: Firefighting measures**

#### Extinguishing media

Suitable extinguishing media : Water spray. Water fog. Foam. Carbon dioxide. Dry chemical.

Unsuitable extinguishing media

#### Special hazards arising from the substance or mixture

Fire hazard : Irritating fumes and organic acid vapors may develop when material is exposed to elevated

temperatures or open flame.

#### Advice for firefighters 5.3.

: Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed Firefighting instructions

containers.

Protection during firefighting Do not enter fire area without proper protective equipment, including respiratory protection.

Avoid all eye and skin contact and do not breathe vapor and mist.

## SECTION 6: Accidental release measures

# Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

Protective equipment : Wear protective equipment as described in Section 8.

**Emergency procedures** : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment Do not attempt to take action without suitable protective equipment. Equip cleanup crew with

proper protection. For further information refer to section 8: "Exposure controls/personal

protection".

#### 6.2. **Environmental precautions**

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or

streams

Methods for cleaning up : Clean up any spills as soon as possible, using an absorbent material to collect it.

### Reference to other sections

See Heading 8. Exposure controls and personal protection.

# **SECTION 7: Handling and storage**

## Precautions for safe handling

Precautions for safe handling : Avoid all eye and skin contact and do not breathe vapor and mist. Spillage of this material may

create a slippery condition for foot or vehicle traffic.

Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild Hygiene measures

soap and water before eating, drinking or smoking and when leaving work.

# Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed.

Incompatible materials : Alkalis. Metal salts. Oxidizing agent. Precious metals. : Store in a well-ventilated place. Store away from heat. Storage area

## **SECTION 8: Exposure controls/personal protection**

#### **Control parameters**

No additional information available

# **Exposure controls**

Appropriate engineering controls : Provide local exhaust or general room ventilation.

Personal protective equipment Avoid all unnecessary exposure. Emergency eye wash fountains and safety showers should be

available in the immediate vicinity of any potential exposure.

Hand protection : Neoprene or nitrile rubber gloves.

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Eye protection : Chemical goggles. Contact lenses should not be worn.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : Where exposure through inhalation may occur from use, respiratory protection equipment is

recommended. NIOSH-certified organic vapor (black cartridge) respirator.

#### **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Clear liquid.
Molecular mass : (mixture)
Color : Colorless.

Odor No data available Odor threshold No data available Refractive index No data available рΗ : No data available Relative evaporation rate (butyl acetate=1) No data available Melting point No data available No data available Freezing point : No data available Boiling point No data available Flash point Auto-ignition temperature No data available Decomposition temperature : No data available Flammability (solid, gas) : No data available Vapor pressure No data available Relative vapor density at 20 °C No data available

Relative density : 0.982

Solubility : Insoluble in water.
Log Pow : No data available
Log Kow : No data available

Viscosity, kinematic : 398.3 cSt

Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidizing properties : No data available
Explosion limits : No data available

#### 9.2. Other information

No additional information available

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

Stable in sealed containers stored under a dry inert atmosphere.

# 10.3. Possibility of hazardous reactions

No additional information available

#### 10.4. Conditions to avoid

Heat. Open flame. Sparks.

#### 10.5. Incompatible materials

Alkalis. Metal salts. Oxidizing agent. Precious metals.

### 10.6. Hazardous decomposition products

Formaldehyde. Organic acid vapors. Silicon dioxide.

# **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

Acute toxicity : Not classified

Vinyl terminated polydimethylsiloxane (68083-19-2)	
LD50 oral rat	> 16 ml/kg
LD50 dermal rabbit	> 16 ml/kg

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1,3,5,7-Tetravinyl-1,3,5,7-tetramethylcyclotetrasiloxane (2554-06-5)		
LD50 oral rat	> 15000 mg/kg	
Toxicity information	> 1320 mg/m³ (lethal concentration: 4H)	
Skin corrosion/irritation	: Not classified	
Serious eye damage/irritation	: Not classified	
Respiratory or skin sensitization	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	

None of the components in this product at concentrations >0.1% are listed by IARC, NTP,

OSHA or ACGIH as a carcinogen

Reproductive toxicity : Not classified Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated

exposure)

: Not classified

: Not classified Aspiration hazard

Symptoms/injuries after inhalation : No information available. Symptoms/injuries after skin contact : May cause skin irritation. Symptoms/injuries after eye contact : May cause eye irritation. Symptoms/injuries after ingestion : No information available.

#### **SECTION 12: Ecological information**

#### 12.1. **Toxicity**

No additional information available

#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

No additional information available

#### **Mobility in soil** 12.4.

No additional information available

### Other adverse effects

: No additional information available Effect on ozone layer Effect on the global warming : No known effects from this product. **GWPmix** comment : No known effects from this product.

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Sewage disposal recommendations : Do not dispose of waste into sewer.

: Incinerate. Dispose in a safe manner in accordance with local/national regulations. Waste disposal recommendations

: Avoid release to the environment. Ecology - waste materials

### **SECTION 14: Transport information**

#### 14.1. **UN** number

Not regulated for transport.

## **UN proper shipping name**

Not applicable

# 14.3. Additional information

Other information : No supplementary information available.

### Transport by sea

No additional information available

### Air transport

No additional information available

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### **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

#### Vinyl terminated polydimethylsiloxane (68083-19-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 1,3,5,7-Tetravinyl-1,3,5,7-tetramethylcyclotetrasiloxane (2554-06-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 15.2. International regulations

#### **CANADA**

#### Vinyl terminated polydimethylsiloxane (68083-19-2)

Listed on the Canadian DSL (Domestic Substances List)

#### 1,3,5,7-Tetravinyl-1,3,5,7-tetramethylcyclotetrasiloxane (2554-06-5)

Listed on the Canadian DSL (Domestic Substances List)

#### **EU-Regulations**

No additional information available

#### 1,3,5,7-Tetravinyl-1,3,5,7-tetramethylcyclotetrasiloxane (2554-06-5)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

#### **National regulations**

#### Vinyl terminated polydimethylsiloxane (68083-19-2)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### 1,3,5,7-Tetravinyl-1,3,5,7-tetramethylcyclotetrasiloxane (2554-06-5)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

#### 15.3. US State regulations

No additional information available

### **SECTION 16: Other information**

Abbreviations and acronyms

Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Lethal Concentration; ATE: Acute Toxicity Estimates; H: hour; 9: 9°C unless otherwise stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; TG: Test Guideline; NIOSH: National Institute for Occupational Safety and Health; IARC: International Agency for Research on Cancer; NTP: National Toxicology Program; HMIS: Hazardous Material Information System; CAS No.: Chemcial Abstract Service Registration Number; EC No.: European Commission Registration Number; EC Index No.: European Commission Index Number; OECD: The Organisation for Economic Co-operation and Development; GHS: The Globally Harmonized System of Classification and Labelling.

#### **HMIS III Rating**

Health

: 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability

 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)

Physical

: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Prepared by safety and environmental affairs.

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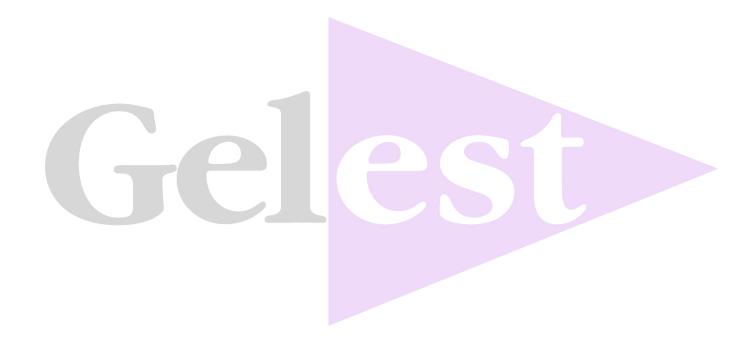
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SDS US (GHS HazCom 2012) - Custom

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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