

## ZIPCONE™ UA

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
 Issue date: 1/6/2015 Revision date: 2/26/2024 Version: 1.2

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

## 1.1. Product identifier

|                 |  |
|-----------------|--|
| Product form    | : Substance  |
| Substance name  | : ZIPCONE™ UA  |
| CAS-No.         | : Not found  |
| Product code    | : PP1-ZPUA   |
| Synonyms        | : POLY(ACRYLOXYPROPYLMETHYLSILOXANE); ACRYLATE FUNCTIONAL SILICONE OIL |
| Product group   | : Trade product  |
| Chemical family | : ORGANOSILOXANE   |

## 1.2. Relevant identified uses of the substance or mixture and uses advised against

## 1.2.1. Relevant identified uses

Use of the substance/mixture : Chemical intermediate

## 1.2.2. Uses advised against

No additional information available

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

## GELEST, INC.

11 East Steel Road  
 Morrisville, PA 19067

## USA

T 215-547-1015 - F 215-547-2484 - (M-F): 8:00 AM - 5:30 PM EST

[info@gelest.com](mailto:info@gelest.com) - [www.gelest.com](http://www.gelest.com)

## 1.4. Emergency telephone number

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

## SECTION 2: Hazards identification

## 2.1. Classification of the substance or mixture

## Classification according to Regulation (EC) No. 1272/2008 [CLP]

Serious eye damage/eye irritation, Category 2 H319

Full text of H- and EUH-statements: see section 16

## Adverse physicochemical, human health and environmental effects

No additional information available

## 2.2. Label elements

## Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS07

Signal word (CLP)

: Warning

Hazard statements (CLP)

: H319 - Causes serious eye irritation.

Precautionary statements (CLP)

: P264 - Wash hands thoroughly after handling.

P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 - If eye irritation persists: Get medical advice/attention.

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### 2.3. Other hazards

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Substance type : Multi-constituent  
Name : ZIPCONE™ UA  
CAS-No. : Not found

| Name                               | Product identifier | %    | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|------------------------------------|--------------------|------|---|
| poly(Acryloxypropylmethylsiloxane) | CAS-No.: Not found | > 95 | Eye Irrit. 2, H319  |
| Proprietary Silicone Compound      | -                  | < 5  | Acute Tox. 4 (Oral), H302<br>Aquatic Chronic 3, H412            |

Full text of H- and EUH-statements: see section 16

### 3.2. Mixtures

Not applicable

## SECTION 4: First aid measures

### 4.1. 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 person to fresh air and keep comfortable for breathing. If you feel unwell, seek medical advice.

First-aid measures after skin contact : Wash with plenty of water/....

First-aid measures after eye contact : Remove contact lenses, if present and easy to do. Continue rinsing. Immediately flush eyes thoroughly with water for at least 15 minutes. Get medical advice/attention.

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

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

Symptoms/effects after inhalation : No information available.

Symptoms/effects after skin contact : Allergic sensitization may occur. May be harmful in contact with skin.

Symptoms/effects after eye contact : Causes serious eye irritation.

Symptoms/effects after ingestion : May be harmful if swallowed.

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

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

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

### 5.2. 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.

### 5.3. Advice for firefighters

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

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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 vapour and mist.

### SECTION 6: Accidental release measures

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

##### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper 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

Methods for cleaning up : Clean up any spills as soon as possible, using an absorbent material to collect it. Sweep or shovel spills into appropriate container for disposal.

#### 6.4. Reference to other sections

See Section 8. Exposure controls and personal protection.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid all eye and skin contact and do not breathe vapour and mist.  
Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed. Store in dark below 15°C.  
Incompatible materials : Oxidizing agent.  
Storage area : Store in a well-ventilated place. Store away from heat.

#### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### 8.1.1 National occupational exposure and biological limit values

No additional information available

##### 8.1.2. Recommended monitoring procedures

No additional information available

##### 8.1.3. Air contaminants formed

No additional information available

##### 8.1.4. DNEL and PNEC

No additional information available

##### 8.1.5. Control banding

No additional information available

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### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

##### Appropriate engineering controls:

Provide local exhaust or general room ventilation.

#### 8.2.2. Personal protection equipment

##### 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.

##### 8.2.2.1. Eye and face protection

###### Eye protection:

Chemical goggles. Contact lenses should not be worn

##### 8.2.2.2. Skin protection

###### Skin and body protection:

Wear suitable protective clothing

###### Hand protection:

Neoprene or nitrile rubber gloves

##### 8.2.2.3. Respiratory protection

###### Respiratory protection:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified organic vapor (black cartridge) respirator.

##### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

No additional information available

## SECTION 9: Physical and chemical properties

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

|   |                               |
|---|-------------------------------|
| Physical state                                  | : Liquid                      |
| Colour  | : Straw.                      |
| Appearance                                      | : Clear liquid.               |
| Odour   | : Not available               |
| Odour threshold                                 | : Not available               |
| Melting point                                   | : < -60 °C                    |
| Freezing point                                  | : Not available               |
| Boiling point                                   | : > 205 °C                    |
| Flammability                                    | : Not available               |
| Explosive limits                                | : Not available               |
| Lower explosion limit                           | : Not available               |
| Upper explosion limit                           | : Not available               |
| Flash point                                     | : 205 °C                      |
| Auto-ignition temperature                       | : Not available               |
| Decomposition temperature                       | : Not available               |
| pH  | : Not available               |
| Viscosity, kinematic                            | : 50 – 125 mm <sup>2</sup> /s |
| Solubility                                      | : Insoluble in water.         |
| Partition coefficient n-octanol/water (Log Kow) | : Not available               |
| Vapour pressure                                 | : Not available               |
| Vapour pressure at 50°C                         | : Not available               |
| Density   | : Not available               |
| Relative density                                | : 1.1                         |
| Relative vapour density at 20°C                 | : Not available               |
| Particle characteristics                        | : Not applicable              |

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### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

VOC content : < 5 %

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Stable below 20°C away from light and radical sources.

### 10.3. Possibility of hazardous reactions

Non-hazardous polymerization will occur if exposed to UV light or if heated >50°C.

### 10.4. Conditions to avoid

Heat. Open flame. Sparks.

### 10.5. Incompatible materials

Oxidizing agent.

### 10.6. Hazardous decomposition products

Organic acid vapors. Silicon dioxide.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

| Proprietary Silicone Compound |            |
|-------------------------------|------------|
| LD50 oral rat                 | 1694 mg/kg |
| LD50 dermal rat               | 6929 mg/kg |

Skin corrosion/irritation : Not classified  
Serious eye damage/irritation : Causes serious eye irritation.  
Respiratory or skin sensitisation : Not classified  
Germ cell mutagenicity : Not classified  
Carcinogenicity : Not classified  
Reproductive toxicity : Not classified  
STOT-single exposure : Not classified  
STOT-repeated exposure : Not classified

| Proprietary Silicone Compound |                             |
|-------------------------------|-----------------------------|
| NOAEL (oral, rat, 90 days)    | > 1000 mg/kg bodyweight/day |
| Aspiration hazard             | : Not classified            |

| ZIPCONE™ UA (Not found) |                |
|-------------------------|----------------|
| Viscosity, kinematic    | 50 – 125 mm²/s |

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### 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

| Proprietary Silicone Compound      |  |
|------------------------------------|--|
| LC50 - Fish [1]                    | 160 mg/l 48 hours: Leuciscus idus (Golden orfe)  |
| EC50 - Crustacea [1]               | > 119 mg/l 48 hours: Daphnia magna   |
| EC50 - Other aquatic organisms [1] | > 1000 mg/l 180 minutes: Activated sludge  |
| EC50 72h - Algae [1]               | 1.95 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |
| EC50 72h - Algae [2]               | 1.02 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |
| ErC50 other aquatic plants         | 1.95 mg/l 72 hours: Desmodesmus subspicatus  |

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

| Proprietary Silicone Compound                   |      |
|---|------|
| Partition coefficient n-octanol/water (Log Pow) | 1.62 |

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Incinerate. Dispose in a safe manner in accordance with local/national regulations.  
Ecological information : Avoid release to the environment.

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

| ADR                          | IMDG           | IATA           | ADN            | RID            |
|------------------------------|----------------|----------------|----------------|----------------|
| 14.1. UN number or ID number |                |                |                |                |
| Not applicable               | Not applicable | Not applicable | Not applicable | Not applicable |

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| ADR                                    | IMDG  | IATA                              | ADN                               | RID                               |
|--|---|-----------------------------------|-----------------------------------|-----------------------------------|
| 14.2. UN proper shipping name          |   |                                   |                                   |                                   |
| Not applicable                         | Not applicable  | Not applicable                    | Not applicable                    | Not applicable                    |
| 14.3. Transport hazard class(es)       |   |                                   |                                   |                                   |
| Not applicable                         | Not applicable  | Not applicable                    | Not applicable                    | Not applicable                    |
| 14.4. Packing group                    |   |                                   |                                   |                                   |
| Not applicable                         | Not applicable  | Not applicable                    | Not applicable                    | Not applicable                    |
| 14.5. Environmental hazards            |   |                                   |                                   |                                   |
| Dangerous for the environment: No      | Dangerous for the environment: No<br>Marine pollutant: No | Dangerous for the environment: No | Dangerous for the environment: No | Dangerous for the environment: No |
| No supplementary information available |   |                                   |                                   |                                   |

### 14.6. Special precautions for user

**Overland transport**

No data available

**Transport by sea**

No data available

**Air transport**

No data available

**Inland waterway transport**

No data available

**Rail transport**

No data available

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

**15.1.1. EU-Regulations**

**REACH Annex XVII (Restriction List)**

| EU restriction list (REACH Annex XVII) |  |   |
|--|--|---|
| Reference code                         | Applicable on  | Entry title or description  |
| 3(b)                                   | ZIPCONE™ UA ;<br>poly(Acryloxypropylmethyl siloxane) ; Proprietary Silicone Compound | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10 |
| 3(c)                                   | Proprietary Silicone Compound  | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1   |

**REACH Annex XIV (Authorisation List)**

Not listed on REACH Annex XIV (Authorisation List)

**REACH Candidate List (SVHC)**

Not listed on the REACH Candidate List

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### PIC Regulation (Prior Informed Consent)

Not listed on the PIC list (Regulation EU 649/2012)

### POP Regulation (Persistent Organic Pollutants)

Not listed on the POP list (Regulation EU 2019/1021)

### Ozone Regulation (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

### VOC Directive (2004/42)

VOC content : < 5 %

### Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

### 15.1.2. National regulations

No additional information available

## 15.2. Chemical safety assessment

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; °: °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.: Chemical 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; APF: Assigned Protection Factor

Other information : Prepared by safety and environmental affairs.

### Full text of H- and EUH-statements:

|                     |   |
|---------------------|---|
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4                                 |
| Aquatic Chronic 3   | Hazardous to the aquatic environment – Chronic Hazard, Category 3 |
| Eye Irrit. 2        | Serious eye damage/eye irritation, Category 2                     |
| H302                | Harmful if swallowed.   |
| H319                | Causes serious eye irritation.                                    |
| H412                | Harmful to aquatic life with long lasting effects.                |

SDS EU (REACH Annex II) - Custom v22

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## Ultraviolet Cure Clear Silicone Elastomer for Polymethacrylates

Features: Provide UV cure silicone elastomer coatings with high transparency and refractive index control.

Applications:

**optical component coating** - effective cladding and elastomeric seals.

**optical thermoplastics** - provides index matching (UA) for polymethacrylates. Applications include glazing, windscreens and computer screens.

|                          |   |   |   |   |
|--------------------------|---|---|---|---|
| Capsular<br>Description: | Thickness<br><br>thin to thick | Cure<br><br>UV | Hardness<br><br>medium | Type<br><br>1-part |
|--------------------------|---|---|---|---|

### Zipcone™ UA Index matching - UV Cure

#### Description

Zipcone™ UA is a clear acrylate modified silicone designed for UV cure.

#### Film Properties

|                   |           |
|-------------------|-----------|
| Color             | clear     |
| Refractive Index  | 1.464     |
| Hardness, Shore A | >60       |
| Tensile Strength  | 80-120psi |
| Elongation        | 1%        |

#### Uncured Properties

|                  |             |
|------------------|-------------|
| Form             | liquid      |
| Solids           | 100%        |
| Viscosity        | 40-180 cSt. |
| Specific Gravity | 1.10        |
| Flashpoint       | >65°C       |

**Shelf life:** 3 months when stored below 15°C in sealed, light-protected containers.

#### Standard Packaging

|                      |
|----------------------|
| PP1-ZPUA Zipcone™ UA |
| 100g/\$110.00        |
| 1kg/\$660.00         |

#### Caution

Use in a well-ventilated area.  
Avoid contact with skin and eyes.

#### Application Methods

Zipcone™ UA is applied as a coating by dipping, brushing or syringing. Exposure to UV irradiation at 250-364 nm (mercury lamp) cures the coating in <1 minute. Oxygen inhibits film formation. Nitrogen blanket or other methods of air exclusion are recommended.