

# Safety Data Sheet

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# **SECTION 1: Identification**

#### 1.1. Product identifier

3M<sup>TM</sup> PERMADYNE Garant 2:1 BBase

### **Product Identification Numbers**

LE-FSFD-3055-0

### 1.2. Recommended use and restrictions on use

#### Recommended use

Dental Product, Impression material

#### **Restrictions on use**

For use only by dental professionals

## 1.3. Supplier's details

MANUFACTURER: 3M

**DIVISION:** Oral Care Solutions Division

ADDRESS: 3M Center, St. Paul, MN 55144-1000, USA

**Telephone:** 1-888-3M HELPS (1-888-364-3577)

#### 1.4. Emergency telephone number

1-800-364-3577 or (651) 737-6501 (24 hours)

# **SECTION 2: Hazard identification**

This document has been prepared in accordance with the U.S. OSHA Hazard Communication Standard, which requires the inclusion of all known hazards of the product or ingredients regardless of the potential risk. The risks of the hazards communicated in this document may vary depending on the potential for exposure.

#### 2.1. Hazard classification

Serious Eye Damage/Irritation: Category 2B.

Skin Sensitizer: Category 1A.

Reproductive Toxicity: Cetagory 1B.

Reproductive Toxicity: Category 1B.

## 2.2. Label elements

Signal word

Danger

# **Symbols**

Exclamation mark | Health Hazard |

## **Pictograms**





#### **Hazard Statements**

Causes eye irritation.

May cause an allergic skin reaction.

May damage fertility or the unborn child.

## **Precautionary Statements**

#### **Prevention:**

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Wear protective gloves.

Wash thoroughly after handling.

Contaminated work clothing must not be allowed out of the workplace.

## **Response:**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

IF exposed or concerned: Get medical advice/attention.

## Disposal:

Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

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

| Ingredient   | C.A.S. No.  | % by Wt                |
|--|-------------|------------------------|
| Furan, tetrahydro-, polymer with oxirane, bis[[3-(1-     | 110531-92-5 | 70 - 90 Trade Secret * |
| aziridinyl)butyl]carbamate]                              |             |                        |
| FATTY ACIDS TRIGLYCERIDES                                | 67701-27-3  | 1 - 10 Trade Secret *  |
| Flux calcined diatomaceous earth (cristobalite 1 - <10%) | 68855-54-9  | < 10 Trade Secret *    |
| POLYETHYLENE-POLYPROPYLENE GLYCOL                        | 9003-11-6   | 1 - 5 Trade Secret *   |
| Benzene, bis(phenylmethyl)-, ar-methyl deriv.            | 53585-53-8  | < 2 Trade Secret *     |
| 1-DODECYLIMIDAZOLE                                       | 4303-67-7   | < 1 Trade Secret *     |
| D-LIMONENE   | 5989-27-5   | < 0.5 Trade Secret *   |

<sup>\*</sup>The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

# **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### Inhalation:

Remove person to fresh air. If you feel unwell, get medical attention.

#### **Skin Contact:**

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

#### **Eve Contact:**

Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, get medical attention.

#### If Swallowed:

Rinse mouth. If you feel unwell, get medical attention.

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

Allergic skin reaction (redness, swelling, blistering, and itching).

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

Not applicable

# **SECTION 5: Fire-fighting measures**

#### 5.1. Suitable extinguishing media

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

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

None inherent in this product.

### **Hazardous Decomposition or By-Products**

SubstanceConditionCarbon monoxideDuring CombustionCarbon dioxideDuring CombustionIrritant Vapors or GasesDuring Combustion

## 5.3. Special protective actions for fire-fighters

Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

# **SECTION 6: Accidental release measures**

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

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

### 6.2. Environmental precautions

Avoid release to the environment.

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

Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Do not handle until all safety precautions have been read and understood. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Do not get in eyes. Use personal protective equipment (gloves, respirators, etc.) as required. A no-touch technique is recommended. If skin contact occurs, wash skin with soap and water. If product contacts glove, remove and discard glove, wash hands immediately with soap and water and then re-glove.

# 7.2. Conditions for safe storage including any incompatibilities

Store away from heat. Store away from acids. Store away from strong bases. Store away from oxidizing agents.

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

### 8.1. Control parameters

## Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

| Ingredient                                 | C.A.S. No. | Agency | Limit type   | <b>Additional Comments</b>  |
|--|------------|--------|--|-----------------------------|
| Cyclohexene, 1-methyl-4-(1-methylethenyl)- | 5989-27-5  | AIHA   | TWA:165.5 mg/m3(30 ppm)  |                             |
| Cristobalite                               | 68855-54-9 | ACGIH  | TWA(respirable fraction):0.025 mg/m3   | A2: Suspected human carcin. |
| Cristobalite                               | 68855-54-9 | OSHA   | TWA concentration(respirable):0.05 mg/m3(1.2 millions of particles/cu. ft.);TWA:0.05 mg/m3 |                             |
| SILICA, AMORPHOUS                          | 68855-54-9 | OSHA   | TWA:20 millions of particles/cu. ft.;TWA concentration:0.8 mg/m3                           |                             |

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

CMRG: Chemical Manufacturer's Recommended Guidelines

OSHA: United States Department of Labor - Occupational Safety and Health Administration

TWA: Time-Weighted-Average STEL: Short Term Exposure Limit

CEIL: Ceiling

## 8.2. Exposure controls

### 8.2.1. Engineering controls

Use in a well-ventilated area.

## 8.2.2. Personal protective equipment (PPE)

### Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:

Safety Glasses with side shields

#### Skin/hand protection

See Section 7.1 for additional information on skin protection.

## Respiratory protection

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None required.

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

## 9.1. Information on basic physical and chemical properties

**Appearance** 

Physical stateSolidColorBlue

Specific Physical Form: Paste

OdorCharacteristic OdorOdor thresholdNo Data AvailablepHNo Data AvailableMelting pointNot ApplicableBoiling PointNot Applicable

Flash Point Flash point > 93 °C (200 °F)

Evaporation rateNot ApplicableFlammability (solid, gas)Not ClassifiedFlammable Limits(LEL)Not ApplicableFlammable Limits(UEL)Not ApplicableVapor PressureNot ApplicableVapor DensityNot ApplicableDensity1 - 1.2 g/cm3

Specific Gravity >= 1 [Ref Std: WATER=1]

Solubility in Water Negligible Solubility- non-water No Data Available Partition coefficient: n-octanol/ water No Data Available **Autoignition temperature** No Data Available **Decomposition temperature** No Data Available Viscosity No Data Available **Volatile Organic Compounds** No Data Available Percent volatile No Data Available **VOC Less H2O & Exempt Solvents** No Data Available

# **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

This material is considered to be non reactive under normal use conditions.

### 10.2. Chemical stability

Stable.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

#### 10.4. Conditions to avoid

Heat

## 10.5. Incompatible materials

Strong acids Strong bases Strong oxidizing agents

### 10.6. Hazardous decomposition products

<u>Substance</u> <u>Condition</u>

\_\_\_\_\_

None known.

Refer to section 5.2 for hazardous decomposition products during combustion.

# **SECTION 11: Toxicological information**

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

This document has been prepared in accordance with the U.S. OSHA Hazard Communication Standard, which requires the inclusion of all known hazards of the product or ingredients regardless of the potential risk. The risks of the hazards communicated in this document may vary depending on the potential for exposure. The information below represents toxicological information associated with the individual components of the uncured product. Once properly mixed and/or cured, the product is safe for its intended use.

## 11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

#### Inhalation:

This product may have a characteristic odor; however, no adverse health effects are anticipated.

#### **Skin Contact:**

Contact with the skin during product use is not expected to result in significant irritation. Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

#### **Eve Contact:**

Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

#### Ingestion

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

May cause additional health effects (see below).

## **Additional Health Effects:**

#### Reproductive/Developmental Toxicity:

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

#### Carcinogenicity:

Exposures needed to cause the following health effect(s) are not expected during normal, intended use:

Contains a chemical or chemicals which can cause cancer.

| Ingredient           | CAS No.    | Class Description              | Regulation                                  |
|----------------------|------------|--------------------------------|---|
| SILICA, CRYS AIRRESP | 68855-54-9 | Grp. 1: Carcinogenic to humans | International Agency for Research on Cancer |
| SILICA, CRYS AIRRESP | 68855-54-9 | Known human carcinogen         | National Toxicology Program Carcinogens     |

## **Toxicological Data**

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

**Acute Toxicity** 

| Name  | Route                                 | Species                           | Value  |
|---|---------------------------------------|-----------------------------------|--|
| Overall product   | Dermal                                |                                   | No data available; calculated ATE >5,000 mg/kg |
| Overall product   | Ingestion                             |                                   | No data available; calculated ATE >5,000 mg/kg |
| Furan, tetrahydro-, polymer with oxirane, bis[[3-(1-aziridinyl)butyl]carbamate] | Dermal                                | Professio<br>nal<br>judgeme<br>nt | LD50 Not applicable                            |
| Furan, tetrahydro-, polymer with oxirane, bis[[3-(1-aziridinyl)butyl]carbamate] | Ingestion                             | Rat                               | LD50 > 2,000 mg/kg                             |
| FATTY ACIDS TRIGLYCERIDES   | Dermal                                | Rabbit                            | LD50 > 2,000 mg/kg                             |
| FATTY ACIDS TRIGLYCERIDES   | Ingestion                             | Rat                               | LD50 > 2,000 mg/kg                             |
| Flux calcined diatomaceous earth (cristobalite 1 - <10%)                        | Dermal                                | Professio<br>nal<br>judgeme<br>nt | LD50 estimated to be > 5,000 mg/kg             |
| Flux calcined diatomaceous earth (cristobalite 1 - <10%)                        | Inhalation-<br>Dust/Mist<br>(4 hours) | Rat                               | LC50 > 2.7 mg/l                                |
| Flux calcined diatomaceous earth (cristobalite 1 - <10%)                        | Ingestion                             | Rat                               | LD50 > 2,000 mg/kg                             |
| POLYETHYLENE-POLYPROPYLENE GLYCOL   | Dermal                                | Professio<br>nal<br>judgeme<br>nt | LD50 estimated to be > 5,000 mg/kg             |
| POLYETHYLENE-POLYPROPYLENE GLYCOL   | Ingestion                             | Rat                               | LD50 5,700 mg/kg                               |
| Benzene, bis(phenylmethyl)-, ar-methyl deriv.                                   | Dermal                                | Rat                               | LD50 > 2,000 mg/kg                             |
| Benzene, bis(phenylmethyl)-, ar-methyl deriv.                                   | Ingestion                             | Rat                               | LD50 > 10,360 mg/kg                            |
| 1-DODECYLIMIDAZOLE  | Ingestion                             | Rat                               | LD50 641 mg/kg                                 |
| D-LIMONENE  | Inhalation-<br>Vapor (4<br>hours)     | Mouse                             | LC50 > 3.14 mg/l                               |
| D-LIMONENE  | Dermal                                | Rabbit                            | LD50 > 5,000 mg/kg                             |
| D-LIMONENE  | Ingestion                             | Rat                               | LD50 4,400 mg/kg                               |

ATE = acute toxicity estimate

# Skin Corrosion/Irritation

| Name  | Species  | Value                     |
|---|----------|---------------------------|
|   |          |                           |
| Furan, tetrahydro-, polymer with oxirane, bis[[3-(1-aziridinyl)butyl]carbamate] | Rabbit   | No significant irritation |
| Flux calcined diatomaceous earth (cristobalite 1 - <10%)                        | In vitro | No significant irritation |
|   | data     |                           |
| Benzene, bis(phenylmethyl)-, ar-methyl deriv.                                   | Rabbit   | Mild irritant             |
| 1-DODECYLIMIDAZOLE  | Rabbit   | Mild irritant             |
| D-LIMONENE  | Rabbit   | Mild irritant             |

**Serious Eye Damage/Irritation** 

| Name  | Species  | Value                     |
|---|----------|---------------------------|
|   |          |                           |
| Furan, tetrahydro-, polymer with oxirane, bis[[3-(1-aziridinyl)butyl]carbamate] | Rabbit   | Moderate irritant         |
| Flux calcined diatomaceous earth (cristobalite 1 - <10%)                        |          | Mild irritant             |
| Benzene, bis(phenylmethyl)-, ar-methyl deriv.                                   |          | No significant irritation |
| 1-DODECYLIMIDAZOLE  | In vitro | Severe irritant           |
|   | data     |                           |
| D-LIMONENE  | Rabbit   | Mild irritant             |

# **Skin Sensitization**

| Name  | Species | Value          |
|---|---------|----------------|
| Furan, tetrahydro-, polymer with oxirane, bis[[3-(1-aziridinyl)butyl]carbamate] |         | Not classified |
|   | pig     |                |
| Flux calcined diatomaceous earth (cristobalite 1 - <10%)                        | Mouse   | Not classified |
| Benzene, bis(phenylmethyl)-, ar-methyl deriv.                                   | Guinea  | Not classified |
|   | pig     |                |

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| 1-DODECYLIMIDAZOLE | Mouse | Sensitizing |
|--------------------|-------|-------------|
| D-LIMONENE         | Mouse | Sensitizing |

# **Respiratory Sensitization**

For the component/components, either no data are currently available or the data are not sufficient for classification.

**Germ Cell Mutagenicity** 

| Name  | Route    | Value  |
|---|----------|--|
|   |          |  |
| Furan, tetrahydro-, polymer with oxirane, bis[[3-(1-aziridinyl)butyl]carbamate] | In Vitro | Not mutagenic                                  |
| Flux calcined diatomaceous earth (cristobalite 1 - <10%)                        | In Vitro | Some positive data exist, but the data are not |
|   |          | sufficient for classification                  |
| Benzene, bis(phenylmethyl)-, ar-methyl deriv.                                   | In Vitro | Not mutagenic                                  |
| Benzene, bis(phenylmethyl)-, ar-methyl deriv.                                   | In vivo  | Not mutagenic                                  |
| 1-DODECYLIMIDAZOLE  | In Vitro | Not mutagenic                                  |
| D-LIMONENE  | In Vitro | Not mutagenic                                  |
| D-LIMONENE  | In vivo  | Not mutagenic                                  |

Carcinogenicity

| Name   | Route      | Species | Value  |
|--|------------|---------|--|
| Flux calcined diatomaceous earth (cristobalite 1 - <10%) | Inhalation | Human   | Carcinogenic                                   |
|  |            | and     |  |
|  |            | animal  |  |
| D-LIMONENE   | Ingestion  | Rat     | Some positive data exist, but the data are not |
|  |            |         | sufficient for classification                  |

# Reproductive Toxicity

Reproductive and/or Developmental Effects

| Name  | Route     | Value                                  | Species                       | Test Result            | Exposure<br>Duration         |
|---|-----------|--|-------------------------------|------------------------|------------------------------|
| Benzene, bis(phenylmethyl)-, ar-methyl deriv. | Ingestion | Toxic to male reproduction             | Rat                           | NOAEL 250<br>mg/kg/day | 28 days                      |
| Benzene, bis(phenylmethyl)-, ar-methyl deriv. | Ingestion | Toxic to female reproduction           | Rat                           | NOAEL 250<br>mg/kg/day | premating into lactation     |
| Benzene, bis(phenylmethyl)-, ar-methyl deriv. | Ingestion | Toxic to development                   | Rabbit                        | LOAEL 10<br>mg/kg/day  | during gestation             |
| D-LIMONENE                                    | Ingestion | Not classified for female reproduction | Rat                           | NOAEL 750<br>mg/kg/day | premating & during gestation |
| D-LIMONENE                                    | Ingestion | Not classified for development         | Multiple<br>animal<br>species | NOAEL 591<br>mg/kg/day | during<br>organogenesi<br>s  |

# Target Organ(s)

**Specific Target Organ Toxicity - single exposure** 

| Name   | Route      | Target Organ(s)        | Value  | Species                      | Test Result         | Exposure<br>Duration |
|--|------------|------------------------|--|------------------------------|---------------------|----------------------|
| Benzene,<br>bis(phenylmethyl)-, ar-<br>methyl deriv. | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar<br>health<br>hazards | NOAEL not available |                      |
| D-LIMONENE   | Ingestion  | nervous system         | Not classified   |                              | NOAEL Not available |                      |

Specific Target Organ Toxicity - repeated exposure

| Name   | Route      | Target Organ(s) | Value  | Species | Test Result         | Exposure<br>Duration  |
|--|------------|-----------------|--|---------|---------------------|-----------------------|
| Flux calcined diatomaceous earth (cristobalite 1 - <10%) | Inhalation | silicosis       | Causes damage to organs through prolonged or repeated exposure | Human   | NOAEL Not available | occupational exposure |
| Flux calcined  | Ingestion  | hematopoietic   | Not classified   | Rat     | NOAEL               | 90 days               |

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| diatomaceous earth<br>(cristobalite 1 - <10%)        |           | system   eyes  <br>kidney and/or<br>bladder  |                |       | 3,738<br>mg/kg/day          |           |
|--|-----------|--|----------------|-------|-----------------------------|-----------|
| Benzene,<br>bis(phenylmethyl)-, ar-<br>methyl deriv. | Ingestion | liver   kidney and/or bladder   heart   skin   endocrine system   gastrointestinal tract   bone, teeth, nails, and/or hair   hematopoietic system   immune system   muscles   nervous system   eyes   respiratory system   vascular system | Not classified | Rat   | NOAEL 500<br>mg/kg/day      | 120 days  |
| D-LIMONENE   | Ingestion | kidney and/or<br>bladder   | Not classified | Rat   | LOAEL 75<br>mg/kg/day       | 103 weeks |
| D-LIMONENE   | Ingestion | liver  | Not classified | Mouse | NOAEL<br>1,000<br>mg/kg/day | 103 weeks |
| D-LIMONENE   | Ingestion | heart   endocrine<br>system   bone, teeth,<br>nails, and/or hair  <br>hematopoietic<br>system   immune<br>system   muscles  <br>nervous system  <br>respiratory system   | Not classified | Rat   | NOAEL 600<br>mg/kg/day      | 103 weeks |

#### **Aspiration Hazard**

| Name  | Value             |
|---|-------------------|
| Benzene, bis(phenylmethyl)-, ar-methyl deriv. | Aspiration hazard |
| D-LIMONENE                                    | Aspiration hazard |

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

# **SECTION 12: Ecological information**

## **Ecotoxicological information**

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

## **Chemical fate information**

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

# **SECTION 13: Disposal considerations**

#### 13.1. Disposal methods

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Dispose of waste product in a permitted industrial waste facility.

EPA Hazardous Waste Number (RCRA): D005 (Barium)

# **SECTION 14: Transport Information**

For Transport Information, please visit http://3M.com/Transportinfo or call 1-800-364-3577 or 651-737-6501.

# **SECTION 15: Regulatory information**

## 15.1. US Federal Regulations

Contact 3M for more information

#### **EPCRA 311/312 Hazard Classifications:**

| Physical | Hazards |
|----------|---------|
|----------|---------|

Not applicable

#### **Health Hazards**

Reproductive toxicity

Respiratory or Skin Sensitization

Serious eye damage or eye irritation

# 15.2. State Regulations

Contact 3M for more information.

### 15.3. Chemical Inventories

The components of this material are in compliance with the China "Measures on Environmental Management of New Chemical Substance". Certain restrictions may apply. Contact the selling division for additional information.

This material contains one or more substances not listed on the TSCA Inventory. Commercial use of this material is regulated by the FDA.

Contact 3M for more information

# 15.4. International Regulations

Contact 3M for more information.

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

# **SECTION 16: Other information**

### NFPA Hazard Classification

Health: 2 Flammability: 1 Instability: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

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determine whether it is fit for a particular purpose and suitable for user's method of use or application.

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