1 Identification

- Product identifier
  - Trade name: GC Fuji ORTHO LC Liquid
- Relevant identified uses of the substance or mixture and uses advised against
  No further relevant information available.
- Application of the substance / the mixture Auxillary for dental technology
- Details of the supplier of the safety data sheet
  - Manufacturer/Supplier:
    Henry Schein Halas
    44 O’Dea Ave
    Waterloo NSW 2017
    Tel: 1300 65 88 22
- Further information obtainable from: Regulatory affairs

2 Hazard Identification

- Classification of the substance or mixture
  Skin Corr. 1A H314 Causes severe skin burns and eye damage.
  Eye Dam. 1 H318 Causes serious eye damage.
  Skin Sens. 1 H317 May cause an allergic skin reaction.
- Label elements
  - GHS label elements
    Exempt from requirements - product regulated as a medical device or an in vitro diagnostic medical device.
    The product is classified and labelled according to the Globally Harmonised System (GHS).
  - Hazard pictograms
    GHS05 GHS07
- Signal word Danger
- Hazard-determining components of labelling:
  2-hydroxyethyl methacrylate
  Tartaric acid
  7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate
- Hazard statements
  Causes severe skin burns and eye damage.
  May cause an allergic skin reaction.
- Precautionary statements
  Contaminated work clothing should not be allowed out of the workplace.
  Wear protective gloves.
  Wear eye protection / face protection.
  Wash thoroughly after handling.

(Contd. on page 2)
Safety data sheet
according to WHS Regulations

Printing date 27.05.2015
Version number 1
Revision: 27.05.2015

Trade name: GC Fuji ORTHO LC Liquid

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
Immediately call a POISON CENTER/doctor.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Wash contaminated clothing before reuse.
If skin irritation or rash occurs: Get medical advice/attention.
Specific treatment (see on this label).
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

· Additional information:
  5 % of the mixture consists of component(s) of unknown toxicity.

· Other hazards

· Results of PBT and vPvB assessment
  · PBT: Not applicable.
  · vPvB: Not applicable.

3 Composition and information on ingredients

· Chemical characterisation: Mixtures
  · Description:
    Only substances required to be mentioned according to Annex II of regulation 1907/2006 are listed. Information on the other substances that may be present can be obtained upon request.

  · Dangerous components:
    868-77-9 2-hydroxyethyl methacrylate 25-50%
    87-69-4 Tartaric acid 5-10%
    72869-86-4 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazaheaxadecane-1,16-diyl bismethacrylate 1-5%
    1830-78-0 2-Hydroxy-1,3 dimethacryloxypropane 1-5%

· Additional information: For the wording of the listed risk phrases refer to section 16.

4 First Aid Measures

· Description of first aid measures
  · General information:
    Immediately remove any clothing soiled by the product.
    If symptoms persist consult doctor.
  · After inhalation:
    Supply fresh air and to be sure call for a doctor.
    Take affected persons into fresh air and keep quiet.
  · After skin contact:
    Immediately wash with water and soap and rinse thoroughly.
    Seek medical treatment.
    If skin irritation continues, consult a doctor.
  · After eye contact:
    Protect unharmed eye.
    Rinse opened eye for several minutes under running water.
    Call a doctor immediately.
40.3.3

∙ After swallowing:
  Rinse out mouth and then drink plenty of water.
  If symptoms persist consult doctor.
∙ Information for doctor:
  ∙ Most important symptoms and effects, both acute and delayed: Allergic reactions
  ∙ Indication of any immediate medical attention and special treatment needed
    No further relevant information available.

5 Fire Fighting Measures

∙ Extinguishing media
  ∙ Suitable extinguishing agents:
    CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
    Use fire extinguishing methods suitable to surrounding conditions.
  ∙ For safety reasons unsuitable extinguishing agents: Water with full jet
  ∙ Special hazards arising from the substance or mixture
    Formation of toxic gases is possible during heating or in case of fire.
  ∙ Advice for firefighters, Hazchem Code: 2X
  ∙ Protective equipment: Wear self-contained respiratory protective device.
  ∙ Additional information
    Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

∙ Personal precautions, protective equipment and emergency procedures
  Remove persons from danger area.
  Avoid contact with the eyes and skin.
  Wear protective clothing.
  Environmental precautions:
    Do not allow product to reach sewage system or any water course.
    Inform respective authorities in case of seepage into water course or sewage system.
    Do not allow to penetrate the ground/soil.
    In case of seepage into the ground inform responsible authorities.
  ∙ Methods and material for containment and cleaning up:
    Use neutralising agent.
    Absorb liquid components with liquid-binding material.
    Dispose of the material collected according to regulations.
  ∙ Reference to other sections
    See Section 7 for information on safe handling.
    See Section 8 for information on personal protection equipment.
    See Section 13 for disposal information.

7 Handling and storage

∙ Handling:
  ∙ Precautions for safe handling
    Ensure good ventilation/exhaustion at the workplace.
    Prevent formation of aerosols.
    Avoid contact with the eyes and skin.
  ∙ Information about fire - and explosion protection: No special measures required.
8 Exposure controls and personal protection

- Additional information about design of technical facilities: No further data; see item 7.

- Control parameters
- Ingredients with limit values that require monitoring at the workplace:
  The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- Additional information: The lists valid during the making were used as basis.

- Exposure controls
- Personal protective equipment:
  - General protective and hygienic measures:
    The usual precautionary measures are to be adhered to when handling chemicals.
    Avoid contact with the eyes and skin.
    Wash hands before breaks and at the end of work.
    Keep away from foodstuffs, beverages and feed.
    Immediately remove all soiled and contaminated clothing
- Respiratory protection: Suitable respiratory protective device recommended.
- Protection of hands:

  Protective gloves

- Material of gloves
  The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- Penetration time of glove material
  The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- Eye protection:

  Tightly sealed goggles

9 Physical and chemical properties

- Information on basic physical and chemical properties
- General Information
- Appearance:
  Form: Liquid
## 10 Stability and reactivity

- **Reactivity**: No further relevant information available.
- **Chemical stability**
  - **Thermal decomposition / conditions to be avoided**: No decomposition if used according to specifications.
  - **Possibility of hazardous reactions**: No dangerous reactions known.
  - **Conditions to avoid**: No further relevant information available.
  - **Incompatible materials**: No further relevant information available.
  - **Hazardous decomposition products**: No dangerous decomposition products known.
11 Toxicological information

- Information on toxicological effects
  - Acute toxicity
    - LD/LC50 values relevant for classification:
      - 72869-86-4 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate
        - Oral LD50 > 5000 mg/kg (rat female) (OECD 401)

- Primary irritant effect:
  - Skin corrosion/irritation: Strong caustic effect on skin and mucous membranes.
  - Serious eye damage/irritation: Strong caustic effect.
  - Respiratory or skin sensitisation: Sensitisation possible through skin contact.

- Additional toxicological information:
  The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
  - Corrosive
  - Repeated dose toxicity: No further relevant information available.
  - CMR effects (carcinogenity, mutagenicity and toxicity for reproduction): No further relevant information available.

12 Ecological information

- Toxicity
  - Aquatic toxicity:
    - EC50/48h (static) > 1.2 mg/l (daphnia magna) (OECD 202)

- Persistence and degradability: No further relevant information available.
- Behaviour in environmental systems:
  - Bioaccumulative potential: No further relevant information available.
  - Mobility in soil: No further relevant information available.
- Additional ecological information:
  - General notes:
    Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
    Do not allow product to reach ground water, water course or sewage system.
    Must not reach sewage water or drainage ditch undiluted or unneutralised.
    Danger to drinking water if even small quantities leak into the ground.
    Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

- Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - vPvB: Not applicable.
- Other adverse effects: No further relevant information available.
13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**
  Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- **European waste catalogue**
  - 18 00 00 WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (except kitchen and restaurant wastes not arising from immediate health care)
  - 18 01 00 wastes from natal care, diagnosis, treatment or prevention of disease in humans
  - 18 01 06* chemicals consisting of or containing dangerous substances

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **UN-Number**
- **ADG, IMDG, IATA** UN3265

- **UN proper shipping name**
- **ADG** 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Polyacrylic acid, Tartaric acid)
- **IMDG, IATA** CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Polyacrylic acid, Tartaric acid)

- **Transport hazard class(es)**

  - **ADG**
    - **Class** 8 (C3) Corrosive substances.
    - **Label** 8

  - **IMDG, IATA**
    - **Class** 8 Corrosive substances.
    - **Label** 8

- **Packing group**
  - **ADG, IMDG, IATA** II

- **Environmental hazards:**
  - **Marine pollutant:** No

- **Special precautions for user**
  - **Warning:** Corrosive substances.
  - **Danger code (Kemler):** 80
  - **EMS Number:** F-A,S-B

(Contd. on page 8)
Segregation groups: Acids

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.

Transport/Additional information:
- ADG
  - Limited quantities (LQ): 1L
  - Excepted quantities (EQ): Code: E2
    - Maximum net quantity per inner packaging: 30 ml
    - Maximum net quantity per outer packaging: 500 ml
- IMDG
  - Limited quantities (LQ): 1L
  - Excepted quantities (EQ): Code: E2
    - Maximum net quantity per inner packaging: 30 ml
    - Maximum net quantity per outer packaging: 500 ml
- UN "Model Regulation": UN3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
  - (Polyacrylic acid, Tartaric acid), 8, II

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
  - Australian Inventory of Chemical Substances
    - 868-77-9 2-hydroxyethyl methacrylate
    - 9003-01-4 Polyacrylic acid
    - 87-69-4 Tartaric acid
    - 72869-86-4 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate
    - 465-29-2 Bornane-2,3-dione
    - 128-37-0 2,6-di-tert-butyl-p-cresol
    - 7732-18-5 Distilled water
  - Standard for the Uniform Scheduling of Medicines and Poisons
    - None of the ingredients is listed.
  - GHS label elements: The product is classified and labelled according to the Globally Harmonised System (GHS).
  - Hazard pictograms
    - GHS05
    - GHS07

- Signal word: Danger

- Hazard-determining components of labelling:
  - 2-hydroxyethyl methacrylate
  - Tartaric acid
  - 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate
Safety data sheet
according to WHS Regulations

Trade name: GC Fuji ORTHO LC Liquid

- Hazard statements
  Causes severe skin burns and eye damage.
  May cause an allergic skin reaction.

- Precautionary statements
  Contaminated work clothing should not be allowed out of the workplace.
  Wear protective gloves.
  Wear eye protection / face protection.
  Wash thoroughly after handling.
  IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  Immediately call a POISON CENTER/doctor.
  IF INHALED: Remove person to fresh air and keep comfortable for breathing.
  Wash contaminated clothing before reuse.
  IF skin irritation or rash occurs: Get medical advice/attention.
  IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
  Specific treatment (see on this label).
  Store locked up.
  Dispose of contents/container in accordance with local/regional/national/international regulations.

- Directive 2012/18/EU
- Named dangerous substances - ANNEX I None of the ingredients is listed.
- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

- Department issuing MSDS: Regulatory affairs
- Contact: msds@gceurope.com
- Abbreviations and acronyms:
  ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  IMDG: International Maritime Code for Dangerous Goods
  IATA: International Air Transport Association
  EINECS: European Inventory of Existing Commercial Chemical Substances
  ELINCS: European List of Notified Chemical Substances
  CAS: Chemical Abstracts Service (division of the American Chemical Society)
  LC50: Lethal concentration, 50 percent
  LD50: Lethal dose, 50 percent
  Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A
  Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
  Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

- Sources
  • ECHA (http://echa.europa.eu/)
  • EnviChem (www.echemportal.org)

* Data compared to the previous version altered.
This version replaces all previous versions.

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1 Identification

- Product identifier

- Trade name: GC Fuji ORTHO LC Powder
- Relevant identified uses of the substance or mixture and uses advised against
  No further relevant information available.
- Application of the substance / the mixture: Auxillary for dental technology

- Details of the supplier of the safety data sheet
- Manufacturer/Supplier:
  Henry Schein Halas
  44 O’Dea Ave
  Waterloo NSW 2017
  Tel: 1300 65 88 22

- Further information obtainable from: Regulatory affairs

2 Hazard Identification

- Classification of the substance or mixture
  The product is not classified according to the Globally Harmonised System (GHS).

- Label elements
  - GHS label elements
    Exempt from requirements - product regulated as a medical device or an in vitro diagnostic medical device.
  - Hazard pictograms: Void
  - Signal word: Void
  - Hazard statements: Void
- Other hazards
  - Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - vPvB: Not applicable.

3 Composition and information on ingredients

- Chemical characterisation: Mixtures
- Description:
  Only substances required to be mentioned according to Annex II of regulation 1907/2006 are listed. Information on the other substances that may be present can be obtained upon request.

- Dangerous components: Void

- Additional information: For the wording of the listed risk phrases refer to section 16.

4 First Aid Measures

- Description of first aid measures

- General information:
  No special measures required.

(Contd. on page 2)
5 Fire Fighting Measures

- **Extinguishing media**
  - Suitable extinguishing agents:
    - CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
    - Use fire extinguishing methods suitable to surrounding conditions.
  - For safety reasons unsuitable extinguishing agents: Water with full jet

- **Special hazards arising from the substance or mixture**
  - Formation of toxic gases is possible during heating or in case of fire.

- **Advice for firefighters**
  - Protective equipment: Wear self-contained respiratory protective device.
  - Additional information
    - Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Remove persons from danger area.
  - Environmental precautions:
    - Do not allow product to reach sewage system or any water course.
    - Inform respective authorities in case of seepage into water course or sewage system.
    - Do not allow to penetrate the ground/soil.
    - In case of seepage into the ground inform responsible authorities.
  - Methods and material for containment and cleaning up:
    - Pick up mechanically.
    - Dispose of the material collected according to regulations.

- **Reference to other sections**
  - See Section 7 for information on safe handling.
  - See Section 8 for information on personal protection equipment.
  - See Section 13 for disposal information.

7 Handling and storage

- **Handling:**
  - Precautions for safe handling
    - Prevent formation of dust.

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40.3.3
Any unavoidable deposit of dust must be regularly removed.

- **Information about fire - and explosion protection:** Dust can combine with air to form an explosive mixture.

- **Conditions for safe storage, including any incompatibilities**

- **Storage:**
  - **Requirements to be met by storerooms and receptacles:** Store only in unopened original receptacles.
  - **Information about storage in one common storage facility:** Store away from foodstuffs.
  - **Further information about storage conditions:** None.

- **Specific end use(s)**: No further relevant information available.

## 8 Exposure controls and personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

- **Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- **Additional information:** The lists valid during the making were used as basis.

- **Exposure controls**

- **Personal protective equipment:**
  - **General protective and hygienic measures:**
    The usual precautionary measures are to be adhered to when handling chemicals.
    Do not inhale dust / smoke / mist.
    Wash hands before breaks and at the end of work.

- **Respiratory protection:** Suitable respiratory protective device recommended.

- **Protection of hands:** Protective gloves

- **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:** Safety glasses

## 9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**
  - **Form:** Powder
  - **Colour:** White

- **Odour:** Odourless

- **Odour threshold:** Not determined.

- **pH-value:** Not applicable.

- **Change in condition**
  - **Melting point/Melting range:** Undetermined.
  - **Boiling point/Boiling range:** Undetermined.
Trade name: GC Fuji ORTHO LC Powder

- Flash point: Not applicable.
- Flammability (solid, gaseous): Not determined.
- Ignition temperature: Undetermined.
- Decomposition temperature: Not determined.
- Self-igniting: Product is not self-igniting.
- Danger of explosion: Product does not present an explosion hazard.
- Explosion limits:
  Lower: Not determined.
  Upper: Not determined.
- Vapour pressure: Not applicable.
- Density: Not determined.
- Relative density: Not determined.
- Vapour density: Not applicable.
- Evaporation rate: Not applicable.
- Solubility in / Miscibility with water: Insoluble.
- Partition coefficient (n-octanol/water): Not determined.
- Viscosity:
  Dynamic: Not applicable.
  Kinematic: Not applicable.
- Other information: No further relevant information available.

10 Stability and reactivity

- Reactivity: No further relevant information available.
- Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions: No dangerous reactions known.
- Conditions to avoid: No further relevant information available.
- Incompatible materials: No further relevant information available.
- Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- Information on toxicological effects
- Acute toxicity
- LD/LC50 values relevant for classification: No further relevant information available.
- Primary irritant effect:
  - Skin corrosion/irritation: No irritant effect.
  - Serious eye damage/irritation: No irritating effect.
- Respiratory or skin sensitisation: No sensitising effects known.
- Additional toxicological information:
  The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.
12 Ecological information

- Toxicity
  - Aquatic toxicity: No further relevant information available.
- Persistence and degradability: No further relevant information available.
- Behaviour in environmental systems:
  - Bioaccumulative potential: No further relevant information available.
- Mobility in soil: No further relevant information available.
- Additional ecological information:
  - General notes:
    Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water
    Do not allow product to reach ground water, water course or sewage system, even in small quantities.
    Danger to drinking water if even extremely small quantities leak into the ground.
- Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - vPvB: Not applicable.
- Other adverse effects: No further relevant information available.

13 Disposal considerations

- Waste treatment methods
  - Recommendation: Smaller quantities can be disposed of with household waste.
- European waste catalogue
  - 18 00 00 wastes from human or animal health care and/or related research (except kitchen and restaurant wastes not arising from immediate health care)
  - 18 01 00 wastes from natal care, diagnosis, treatment or prevention of disease in humans
  - 18 01 06* chemicals consisting of or containing dangerous substances
- Uncleaned packaging:
  - Recommendation: Disposal must be made according to official regulations.

14 Transport information

- UN-Number
  - ADG, ADN, IMDG, IATA: not regulated
- UN proper shipping name
  - ADG, ADN, IMDG, IATA: not regulated
- Transport hazard class(es)
  - ADG, ADN, IMDG, IATA: not regulated
- Packing group
  - ADG, IMDG, IATA: not regulated
### 15 Regulatory information

- **Australian Inventory of Chemical Substances**
<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>65997-17-3</td>
<td>Glass, oxide, chemicals</td>
</tr>
<tr>
<td>2530-85-0</td>
<td>3-trimethoxysilylpropyl methacrylate</td>
</tr>
<tr>
<td>25932-11-0</td>
<td>Benzenesulfonic acid sodium salt</td>
</tr>
</tbody>
</table>

- **Standard for the Uniform Scheduling of Medicines and Poisons**
  None of the ingredients is listed.

- **GHS label elements** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void

- **Directive 2012/18/EU**
  - None of the ingredients is listed.
- **Named dangerous substances - ANNEX I**
  - None of the ingredients is listed.
- **Chemical safety assessment**: A Chemical Safety Assessment has not been carried out.

### 16 Other information

- **Department issuing MSDS**: Regulatory affairs
- **Contact**: msds@gceurope.com
- **Abbreviations and acronyms**:
  - ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  - IMDG: International Maritime Code for Dangerous Goods
  - IATA: International Air Transport Association
  - EINECS: European Inventory of Existing Commercial Chemical Substances
  - ELINCS: European List of Notified Chemical Substances
  - CAS: Chemical Abstracts Service (division of the American Chemical Society)
  - LC50: Lethal concentration, 50 percent
  - LD50: Lethal dose, 50 percent
- **Sources**
  - ECHA (http://echa.europa.eu/)
  - EnviChem (www.echemportal.org)
- **Data compared to the previous version altered.**
  This version replaces all previous versions.

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