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ZIRCONOMER IMPROVED
Liquid

Printing date: November 7, 2022

SCTION 1. Identification of the substance or mixture and of the supplier

1.1 Product identifier

Trade Name:

ZIRCONOMER IMPROVED "Liquid"

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

Relevant identified uses: Dental material Uses advised against: No further data

1.3 Details of the supplier of the safety date sheet

Company/Undertaking identification

Manufacturer's Name: SHOFU INC.

Address: 11 Kamitakamatsu-cho, Fukuine, Higashiyama-ku, Kyoto 605-0983, JAPAN

Phone: +81-75-561-1112 Fax: +81-75-275-4795

Section in Charge: Quality Assurance Section

1.4 Emergency Telephone Number

+81-75-561-1112

SCTION 2. Hazards identification

2.1 GHS Classification

HEALTH HAZARDS

SKIN CORROSION/IRRITATION EYE DAMAGE/IRRITATION

Category 1
Category 1

2.2 Label elements

SYMBOL:



SIGNAL WORD: Danger

HAZARD STATEMENTS

Causes severe skin burns and eye damage

PRECAUTIONARY STATEMENTS

[Prevention]

Obtain special instruction before use.

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

Do not breathe dust/fume/gas/mist/vapours/spray.

Wash hands thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

[Response]

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

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

[Storage]

Store in a cool and dark area.

[Disposal]

Dispose of contents and container in accordance with regulation.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.

SCTION 3. Composition/information on ingredients

- 3.1 Chemical characterization: Mixtures
- 3.2 Ingredients and composition:

Component	CAS-No	Weight %
Polyacrylic acid solution	9003-01-4	90-99
Tartaric acid	87-69-4	1-10

3.3 Additional information: For the wording of the listed risk phrases refer to section 2

SCTION 4. First-aid measures

4.1 Description of first aid measures

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if

present. and easy to do. If eye irritation persists, get medical advice/attention.

Skin contact: Wash immediately with soap and plenty of water. If on skin, skin irritation, get

medical advice/attention.

Ingestion: Rinse mouth and seek medical advice if necessary.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for

breathing.

If symptom concerning breath goes out, call a POISON CENTER or doctor.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SCTION 5. Fire-fighting measures

5.1 Extinguishing Media:

Powder, Alcohol-resistant foam, Carbon dioxide, Dry sand

5.2 Special hazards arising from the substance or mixture:

If it is not dangerous, the container is moved from the fire district.

5.3 Advice for firefighters:

Wear fire protective cloth and self-contained breathing apparatus, if necessary.



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SCTION 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

It enters and is prohibited other than parties concerned.

Wears an appropriate protection tool.

6.2 Environmental Precautions:

Attention should be taken for the spillage not to flow into sewages, drains, and low ground.

6.3 Methods and material for containment and cleaning Up:

Wipe up and discard in a suitable container.

6.4 Reference to other section:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SCTION 7. Handling and storage

Precautions for safe handling:

Wears an appropriate protection tool, and avoids eyes, the cutaneous contacts. Handling of the product exclusively restrict to dental specialists, according to the instruction for use.

7.2 Conditions for safe storage, including any incompatibilities:

Store in a cool and dry place out of direct sunlight.

7.3 Specific end use(s):

No further relevant information available.

SCTION 8. **Exposure controls/personal protection**

Control parameters: 8.1

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.

8.2 Exposure controls:

Respiratory Protection:

Dust mask

Skin Protection: Hand Protection

The glove material has to be impermeable and resistant to the product/ the

substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

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.



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· 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.

• For the permanent contact of a maximum of 15 minutes gloves made the following materials are suitable:

Butyl rubber, BR Nitrile rubber, NBR

Eye Protection: Safety goggles

SCTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Appearance/Odor/Colour: Colorless or pale yellow transparent liquid.

Odour threshold Not determined.

pH Not determined.

Melting point/freezing point Not determined.

Boiling Point: ≈ 100 °C

Flash point:

Evaporation rate

Flammability (solid, gas)

Upper/lower flammability or explosive limits

Vapour pressure

Vapour density

Relative Density:

Not determined.

Not determined.

Not determined.

Not determined.

Not determined.

Solubility: water solubility Soluble.

Partition coefficient: n-octanol/water
Auto-ignition temperature
Decomposition temperature
Viscosity
Not determined.
Not determined.
Not determined.
Not determined.
Not applicable.
Oxidising properties
Not applicable.

9.2 Other information:

No further relevant information available.

SCTION 10. Stability and reactivity

10.1 Reactivity:

No further relevant information available.

10.2 Chemical stability:

Stable under normal temperatures and pressures.

10.3 Possibility of hazardous reactions:

No dangerous reactions known.

10.4 Condition to Avoid:

Avoid direct sunlight and high temperature.

10.5 Incompatible materials:

No further relevant information available.

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10.6 Hazardous Decomposition Products:

None under normal conditions of storage and use.

SCTION 11. Toxicological information

11.1 Information on toxicological effects:

Acute toxicity: Tartaric acid:

> Oral rabbit LDLo 5000 mg/kg

Skin corrosion/irritation: Skin Corr. 1; H314 Causes severe skin burns and eye damage. Eye Dam. 1; H314 Causes severe skin burns and eye damage. Eye damage/irritation:

Sensitization to the respiratory tract:

Based on available data, the classification criteria are not met.

Skin sensitization: Based on available data, the classification criteria are not met.

Germ cell mutagenicity/Genotoxicity:

Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met. Reproductive toxicity: Based on available data, the classification criteria are not met.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure):

Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure):

Based on available data, the classification criteria are not met.

Based on available data, the classification criteria are not met. Aspiration hazard:

11.2 Information on other hazards:

No further relevant information available.

SCTION 12. Ecological information

12.1 Toxicity:

No further relevant information available.

12.2 Persistence and degradability:

No further relevant information available.

12.3 Bioaccumulative potential:

No further relevant information available.

12.4 Mobility in soil:

No further relevant information available.

12.5 Results of PBT and vPvB assessment:

Not applicable.

12.6 Other adverse effects:

No further relevant information available.

SCTION 13. Disposal considerations

13.1 Waste treatment methods:

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

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SCTION 14. Transport information

14.1 UN number: Void
14.2 UN proper shipping name: Void
14.3 Transport hazard class(es): Void
14.4 Packing group: Void

14.5 Environmental hazards: No further relevant information available.

14.6 Special precautions for user: Not applicable.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:

Not applicable.

SCTION 15. Regulatory information

Follow all regulations in your country.

SCTION 16. Other information

This product is intended for use by dental professionals (instrument/material).

Relevant phrases:

H314 Causes severe skin burns and eye damage.

Abbreviations and acronyms:

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LDLo: Lethal Dose Lowest

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative