

Printing date 02/24/2015

Version US-EN-Rev 1

Reviewed on 02/24/2015

1 Identification

- · Product identifier
- · Trade name: GC Fuji VARNISH

• Relevant identified uses of the substance or mixture and uses advised against Dental material

The product is intended for professional use.

To avoid risks for humans and environment obtain instructions.

- · Application of the substance / the mixture Dental sealing material
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier:

GC America Inc. 3737 W. 127th Street Alsip, IL 60803 USA

sds@gcamerica.com

· Information department: Regulatory Affairs

Emergency telephone number:

During normal opening times (Mon.-Fri. 8:00 AM-5:00 PM CST): +1 (708) 597-0900 Transportation (CHEMTREC®) Emergency Telephone No. +1 (800) 424-9300

2 Hazard(s) identification

· Classification of the substance or mixture

Flam. Liq. 2 H225 Highly flammable liquid and vapor.

- STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure.
- Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.
- Skin Irrit. 2 H315 Causes skin irritation.
- Eye Irrit. 2A H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H336 May cause drowsiness or dizziness.

Additional information:

The information provided is in regards to the toxicity and hazard rating(s) of the individual component(s) in the formulation. The associated risk(s) depends on the route(s) of exposure. The hazard rating system is based entirely on the existence of the risk(s) and does not take into account the likelihood of reduced risk(s) through proper usage and handling.

· Label elements

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms



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| Signal word | | I. of page 1) |
|---|---|------------------|
| - | ermining components of labeling: | |
| acetone | ernning components of labeling. | |
| isopropyl ac | | |
| cornmint oil | | |
| cinnamaldel Hazard stat | • | |
| | nable liquid and vapor. | |
| Causes skin | | |
| | ious eye irritation. | |
| | an allergic skin reaction. | |
| | drowsiness or dizziness. | |
| | nage to organs through prolonged or repeated exposure. I if swallowed and enters airways. | |
| | ary statements | |
| Keep away f | from heat/sparks/open flames/hot surfaces No smoking. | |
| | the dust/fume/gas/mist/vapors/spray. | |
| | ctive gloves / eye protection / face protection. | |
| | I: Immediately call a poison center/doctor. r hair): Take off immediately all contaminated clothing. Rinse skin with water/shower | r |
| | Rinse cautiously with water for several minutes. Remove contact lenses, if present | |
| to do. Contir | | |
| Store locked | | |
| | contents/container in accordance with local/regional/national/international regulation | IS. |
| | information: | |
| Classificati | mixture consists of component(s) of unknown toxicity. | |
| | gs (scale 0 - 4) | |
| | Health = 1 | |
| | Fire = 3 | |
| | Reactivity = 0 | |
| HMIS-rating | gs (scale 0 - 4) | |
| HEALTH 1 | Health = 1 | |
| FIRE 3 | Fire = 3 | |
| REACTIVITY 0 | Reactivity = 0 | |
| Other hazaı | _ rds | |
| | PBT and vPvB assessment | |
| DDT NI | oplicable. | |
| | applicable. | |
| PBI: Not ap | | |
| | ··· | |
| vPvB: Not a | tion/information on ingredients | |
| vPvB: Not a | | |
| vPvB: Not a | haracterization: Mixtures | |
| vPvB: Not a Composit Chemical c Description | haracterization: Mixtures h: Mixture of the substances listed below with nonhazardous additions. | |
| vPvB: Not a Composit Chemical c Description Dangerous | haracterization: Mixtures n: Mixture of the substances listed below with nonhazardous additions. components: | 50-70% |
| vPvB: Not a Composit Chemical c Description Dangerous 108-21-4 | haracterization: Mixtures h: Mixture of the substances listed below with nonhazardous additions. | 50-70% 10-20% |

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|------------|----------------|------------|---------|
| 68917-18-0 | cornmint oil | < | 0.5% |
| 104-55-2 | cinnamaldehyde | < | 0.5% |

• Additional information:

If a substance is marked with **, then substance is a trade secret. This is allowed under OSHA's Hazard Communication Standard (HCS) as a trade secret and under GHS as Confidential Business Information (CBI).

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; consult doctor in case of complaints.

In case of unconsciousness place patient stably in side position for transportation.

• After skin contact:

Immediately wash with water and soap and rinse thoroughly.

- Seek medical treatment.
- After eye contact: Protect unharmed eye.

Rinse opened eye for several minutes under running water. Then consult a doctor.

- 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, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire fighting measures that suit the environment.

- · 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
- \cdot **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. Keep away from ignition sources

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| | (Contd. of page 3) |
|---|--------------------|
| 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: | |
| Ensure adequate ventilation. | |
| Absorb liquid components with liquid-binding material. Dispose of the collected material 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 | |
| Ensure good ventilation/exhaustion at the workplace. | |
| Do not inhale dust / smoke / mist. Prevent formation of aerosols. Avoid contact with the eyes and skin. • Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Do not spray on a naked flame or any incandescent material. • Storage: | |
| Prevent formation of aerosols. Avoid contact with the eyes and skin. Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Do not spray on a naked flame or any incandescent material. Storage: Requirements to be met by storerooms and receptacles: | |
| Prevent formation of aerosols. Avoid contact with the eyes and skin. Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Do not spray on a naked flame or any incandescent material. Storage: Requirements to be met by storerooms and receptacles: Store in a cool location. | |
| Prevent formation of aerosols. Avoid contact with the eyes and skin. Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Do not spray on a naked flame or any incandescent material. Storage: Requirements to be met by storerooms and receptacles: Store in a cool location. Store only in unopened original receptacles. | le tuffe |
| Prevent formation of aerosols. Avoid contact with the eyes and skin. Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Do not spray on a naked flame or any incandescent material. Storage: Requirements to be met by storerooms and receptacles: Store in a cool location. Store only in unopened original receptacles. Information about storage in one common storage facility: Store away from food | lstuffs. |
| Prevent formation of aerosols. Avoid contact with the eyes and skin. Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Do not spray on a naked flame or any incandescent material. Storage: Requirements to be met by storerooms and receptacles: Store in a cool location. Store only in unopened original receptacles. Information about storage in one common storage facility: Store away from food Further information about storage conditions: | lstuffs. |
| Prevent formation of aerosols. Avoid contact with the eyes and skin. Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Do not spray on a naked flame or any incandescent material. Storage: Requirements to be met by storerooms and receptacles: Store in a cool location. Store only in unopened original receptacles. Information about storage in one common storage facility: Store away from food Further information about storage. Keep receptacle tightly sealed. | lstuffs. |
| Prevent formation of aerosols. Avoid contact with the eyes and skin. Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Do not spray on a naked flame or any incandescent material. Storage: Requirements to be met by storerooms and receptacles: Store in a cool location. Store only in unopened original receptacles. Information about storage in one common storage facility: Store away from food Further information about storage. Keep receptacle tightly sealed. Store in cool, dry conditions in well sealed receptacles. | lstuffs. |
| Prevent formation of aerosols. Avoid contact with the eyes and skin. Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Do not spray on a naked flame or any incandescent material. Storage: Requirements to be met by storerooms and receptacles: Store in a cool location. Store only in unopened original receptacles. Information about storage in one common storage facility: Store away from food Further information about storage. Keep receptacle tightly sealed. Store in cool, dry conditions in well sealed receptacles. Protect from heat and direct sunlight. | lstuffs. |
| Prevent formation of aerosols. Avoid contact with the eyes and skin. Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Do not spray on a naked flame or any incandescent material. Storage: Requirements to be met by storerooms and receptacles: Store in a cool location. Store only in unopened original receptacles. Information about storage in one common storage facility: Store away from food Further information about storage conditions: Observe instructions for use / storage. Keep receptacle tightly sealed. Store in cool, dry conditions in well sealed receptacles. | lstuffs. |

• Additional information about design of technical systems: No further data; see item 7.

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Color: · Odor:

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|---|---|--------------|
| · Cont | trol parameters | |
| | nponents with limit values that require monitoring at the workplace: | |
| | 21-4 isopropyl acetate | |
| | Long-term value: 950 mg/m³, 250 ppm | |
| TLV | Short-term value: 836 mg/m³, 200 ppm Long-term value: 418 mg/m³, 100 ppm | |
| 67-64 | 4-1 acetone | |
| PEL | Long-term value: 2400 mg/m ³ , 1000 ppm | |
| REL | Long-term value: 590 mg/m³, 250 ppm | |
| TLV | Short-term value: (1782) NIC-1187 mg/m³, (750) NIC-500 ppm Long-term value: (1188) NIC-594 mg/m³, (500) NIC-250 ppm BEI | |
| Ingre | edients with biological limit values: | |
| 67-64 | 4-1 acetone | |
| | 50 mg/L Medium: urine | |
| | Time: end of shift | |
| | Parameter: Acetone (nonspecific) | |
| Wasi Keep Imme Brea Prote Mate The subs be ch Pene The to be | d contact with the eyes and skin. sh hands before breaks and at the end of work. p away from foodstuffs, beverages and feed. ediately remove all soiled and contaminated clothing. athing equipment: Suitable respiratory protective device recommended. section of hands: Protective gloves erial of gloves selection of the suitable gloves does not only depend on the material, but also on further marks ity and varies from manufacturer to manufacturer. As the product is a preparation of seve stances, the resistance of the glove material can not be calculated in advance and has therefore hecked prior to the application. etration time of glove material exact break through time has to be found out by the manufacturer of the protective gloves and he e observed. protection: Safety glasses | eral e to |
| | | |
| Phy | vsical and chemical properties | |
| | rmation on basic physical and chemical properties | |
| | eral Information earance: | |
| | prm: Liquid | |
| | blor: Colorless | |
| 040 | | |

Ester-like

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|---|--|
| · Odor threshold: | Not determined. |
| · pH-value: | Not determined. |
| Change in condition Melting point/Melting range: Boiling point/Boiling range: | Undetermined. < 89 °C (< 192 °F) |
| · Flash point: | -10 °C (14 °F) |
| · Flammability (solid, gaseous): | Not applicable. |
| · Ignition temperature: | Undetermined. |
| · Decomposition temperature: | Not determined. |
| · Auto igniting: | Product is not selfigniting. |
| · Danger of explosion: | Product is not explosive. However, formation of explosive air/ vapor mixtures are possible. |
| Explosion limits: Lower: Upper: | 1.8 Vol % 13.0 Vol % |
| · Vapor pressure: | Not determined. |
| Density at 20 °C (68 °F): Relative density Vapour density Evaporation rate | 0.903 g/cm³ (7.536 lbs/gal) Not determined. Not determined. Not determined. |
| Solubility in / Miscibility with Water: | Fully miscible. |
| · Partition coefficient (n-octanol/water | r): Not determined. |
| [·] Viscosity: Dynamic: Kinematic: | Not determined. Not determined. |
| Solvent content: Organic solvents: VOC content: Other information | 80.0 % 66.0 % No further relevant information available. |

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability Stable at ambient temperature.
- **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.

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· Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

· Information on toxicological effects

- Acute toxicity:
- · LD/LC50 values that are relevant for classification: No further relevant information available.
- · Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.
- Sensitization: Sensitization possible through skin contact.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Irritant

· Carcinogenic categories

IARC (International Agency for Research on Cancer)

Acetic acid, ethenyl ester, copolymer with chloroethene

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

Carcinogenic categories' legend:

IARC Group 1: The agent is carcinogenic to humans.

IARC Group 2A: The agent is probably carcinogenic to humans.

IARC Group 2B: The agent is possibly carcinogenic to humans.

IARC Group 3: The agent is not classifiable as to its carcinogenicity to humans.

IARC Group 4: The agent is probably not carcinogenic to humans.

NTP K: Known to be human carcinogen.

NTP R: Reasonably anticipated to be human carcinogen.

12 Ecological information

· Toxicity

• Aquatic toxicity: No further relevant information available.

- Persistence and degradability No further relevant information available.
- Behavior 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 (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.

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· Other adverse effects No further relevant information available.

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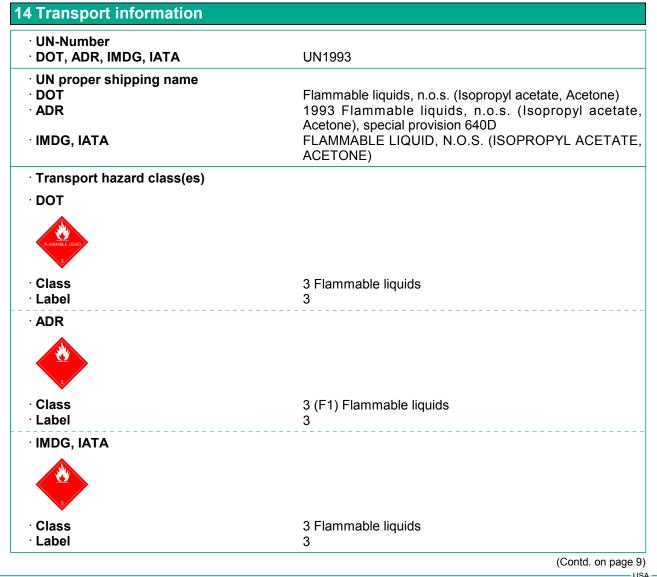
13 Disposal considerations

· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- **Recommendation:** Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.



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|--|---|
| Packing group DOT, ADR, IMDG, IATA | II |
| · Environmental hazards: · Marine pollutant: | No |
| Special precautions for user Danger code (Kemler): EMS Number: | Warning: Flammable liquids 33 F-E, <u>S-E</u> |
| Transport in bulk according to Annex MARPOL73/78 and the IBC Code | II of Not applicable. |
| · Transport/Additional information: | |
| ADR 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) Excepted quantities (EQ) | 1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml |
| · UN "Model Regulation": | UN1993, Flammable liquids, n.o.s. (Isopropyl acetate Acetone), special provision 640D, 3, II |

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- SARA (Superfund Amendments and Reauthorization Act)
 Section 355 (extremely hazardous substances):
- None of the ingredient is listed.
- · Section 313 (Specific toxic chemical listings):
- None of the ingredients is listed.
- TSCA (Toxic Substances Control Act):
- All ingredients are listed.
- · Carcinogenic categories
- · EPA (Environmental Protection Agency)

acetone

- · TLV (Threshold Limit Value established by ACGIH)
- acetone
- · NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

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USA

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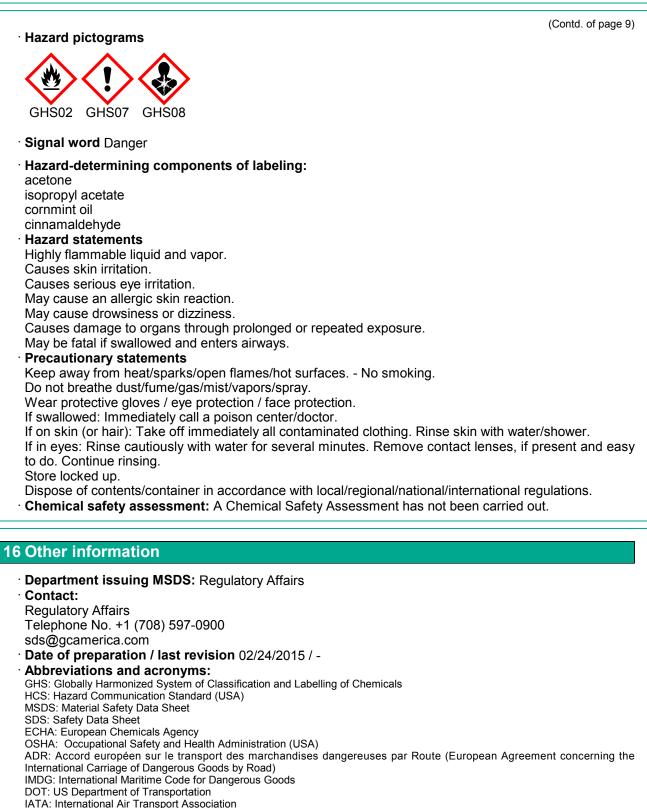
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CAS: Chemical Abstracts Service (division of the American Chemical Society)

USA

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|--|------------------------|
| NFPA: National Fire Protection Association (USA) | |
| HMIS: Hazardous Materials Identification System (USA) | |
| VOC: Volatile Organic Compounds (USA, EU) | |
| LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent | |
| PBT: Persistent, Bioaccumulative and Toxic | |
| vPvB: very Persistent and very Bioaccumulative | |
| Flam. Liq. 2: Flammable liquids, Hazard Category 2 | |
| Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2 | |
| Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A | |
| Skin Sens. 1: Sensitisation - Skin, Hazard Category 1 | |
| STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3 | |
| STOT RE 1: Specific target organ toxicity - Repeated exposure, Hazard Category 1 | |
| Asp. Tox. 1: Aspiration hazard, Hazard Category 1 | |
| · Sources | |
| Manufacturers' MSDSs/SDSs | |
| OSHA (https://www.osha.gov/dts/chemicalsampling/toc/chmcas.html) | |
| TOXNET (http://toxnet.nlm.nih.gov/) | |
| ECHA (http://echa.europa.eu/) | |
| EnviChem (www.echemportal.org) | |
| · Notes: | |
| CAS Registry Number is a Registered Trademark of the American Chemical So | ciety |
| CHEMTREC® is a registered service mark of the American Chemistry Council, | |
| | inc. |
| ** Data compared to the previous version altered. This version replaces all pr | evious versions. |
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