1 Identification

· Product identifier
· Trade name: GC Initial Firing Foam
· Application of the substance / the mixture: Auxiliary for dental technology
· 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
  The product is not classified according to the Globally Harmonized System (GHS).
· 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: Void
  · Hazard pictograms: Void
  · Signal word: Void
  · Hazard statements: Void
  · Classification system:
  · NFPA ratings (scale 0 - 4)
    Health = 0
    Fire = 0
    Reactivity = 0
  · HMIS-ratings (scale 0 - 4)
    HEALTH 0 0
    FIRE 0 0
    REACTIVITY 0 0
· Other hazards
· Results of PBT and vPvB assessment
· PBT: Not applicable.
4 First-aid measures

- **Description of first aid measures**
- **General information:**
  No special measures required.
  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:**
  Rinse with warm water.
  If symptoms persist consult doctor.
- **After eye contact:**
  Rinse opened eye for several minutes under running water. If symptoms persist, 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
    No further relevant information available.
  - 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**
- **Protective equipment:** Wear self-contained respiratory protective device.
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.
  Do not allow to penetrate the ground/soil.
- **Methods and material for containment and cleaning up:**
  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.

**Protective Action Criteria for Chemicals**

- **PAC-1:**
  - 7631-86-9 silicon dioxide 18 mg/m³
  - 65-85-0 Benzoic acid 13 mg/m³

- **PAC-2:**
  - 7631-86-9 silicon dioxide 740 mg/m³
  - 65-85-0 Benzoic acid 140 mg/m³

- **PAC-3:**
  - 7631-86-9 silicon dioxide 4,500 mg/m³
  - 65-85-0 Benzoic acid 830 mg/m³

7 Handling and storage

- **Handling:**
- **Precautions for safe handling** Observe instructions for use.
- **Information about protection against explosions and fires:** No special measures required.

- **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:** Observe instructions for use / storage.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

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

- **Control parameters**
- **Components 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.
Trade name: GC Initial Firing Foam

- Additional information: The lists that were valid during the creation were used as basis.
- Exposure controls
- General protective and hygienic measures:
The usual precautionary measures for handling chemicals should be followed.
  Wash hands before breaks and at the end of work.
- Breathing equipment: 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: Pasty
      - Color: White
    - Odor: Characteristic
    - Odor threshold: Not determined.
  - pH-value: Not determined.
  - Change in condition
    - Melting point/Melting range: Undetermined.
    - Boiling point/Boiling range: Undetermined.
  - Flash point: Not applicable.
  - Flammability (solid, gaseous): Not applicable.
  - Ignition temperature: Undetermined.
  - Decomposition temperature: Not determined.
  - Auto igniting: Product is not self-igniting.
  - Danger of explosion: Product does not present an explosion hazard.
  - Explosion limits:
    - Lower: Not determined.
    - Upper: Not determined.
  - Vapor pressure: Not determined.
  - Density: Not determined.
  - Relative density: Not determined.
  - Vapor density: Not determined.
**Trade name:** GC Initial Firing Foam

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Evaporation rate</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Solubility in / Miscibility with Water</td>
<td>Fully miscible.</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water)</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Viscosity: Dynamic</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Kinematic</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Solvent content: Organic solvents:</td>
<td>0.0 %</td>
</tr>
<tr>
<td>Water</td>
<td>71.1 %</td>
</tr>
<tr>
<td>Solids content:</td>
<td>100.0 %</td>
</tr>
<tr>
<td>Other information</td>
<td>No further relevant information available.</td>
</tr>
</tbody>
</table>

### 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.
- **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: No irritant effect.
  - on the eye: No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
  - The product is not subject to classification according to internally approved calculation methods for preparations.

- **Carcinogenic categories**
- **IARC (International Agency for Research on Cancer)**
  - silicon dioxide 3
- **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.
43.2.4

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.  

- Repeated dose toxicity: No further relevant information available.  
- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)  
  No further relevant information available.  
  No further relevant information available.

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 1 (Self-assessment): slightly hazardous for water  
    Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.  

- 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.  

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

- Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information

- UN-Number  
  - DOT, ADR, ADN, IMDG, IATA Void

- UN proper shipping name  
  - DOT, ADR, ADN, IMDG, IATA Void

- Transport hazard class(es)  
  - DOT, ADR, ADN, IMDG, IATA Void
Trade name: GC Initial Firing Foam

· Packing group
  DOT, ADR, IMDG, IATA: Void

· Environmental hazards:
  Not applicable.

· Special precautions for user
  Not applicable.

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

· UN "Model Regulation": Void

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 ingredients is listed.
    
    · Section 313 (Specific toxic chemical listings):
      None of the ingredients is listed.
    
    · TSCA (Toxic Substances Control Act):
      silicon dioxide
      sodium carboxyl methyl cellulose (CMC-Na)
      Benzoic acid

· Carcinogenic categories

  · EPA (Environmental Protection Agency)
    Benzoic acid: D

  · NIOSH-Ca (National Institute for Occupational Safety and Health)
    None of the ingredients is listed.

· GHS label elements: Void
  · Hazard pictograms: Void
  · Signal word: Void
  · Hazard statements: Void
  · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

· Department issuing SDS: Regulatory Affairs

· Contact:
  Regulatory Affairs
  Telephone No. +1 (708) 597-0900
  sds@gcamerica.com

· Date of preparation / last revision: 02/13/2017 / -

· Abbreviations and acronyms:
  GHS: Globally Harmonized System of Classification and Labelling of Chemicals
Trade name: GC Initial Firing Foam

HCS: Hazard Communication Standard (USA)
MSDS: Material Safety Data Sheet
SDS: Safety Data Sheet
ADN: Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways)
ECHA: European Chemicals Agency
OSHA: Occupational Safety and Health Administration (USA)
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
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit

Sources:
- Manufacturers’ MSDSs/SDSs
- TOXNET (http://toxnet.nlm.nih.gov/)
- ECHA (http://echa.europa.eu/)
- EnviChem (www.echemportal.org)

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

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