Safety Data Sheet  
according to HPR, Schedule 1

1 Identification

- Product identifier
- Trade name: RetroPlate 99
- Application of the substance / the mixture: Hardening Agent

- Details of the supplier of the safety data sheet
  - Manufacturer/Supplier: Curecrete Chemical Company  
    1203 Spring Creek Place  
    SPRINGVILLE, UTAH 84663  
    USA  
    techsupport@curecrete.com  
    (801)489-5663

- Information department: Technical Services
- Emergency telephone number:  
  (800) 633-8253 (United States/Canada)  
  +1 (801) 629-0667 International Emergency Number

2 Hazard identification

- Classification of the substance or mixture
  
  !
  GHS07

  Acute Toxicity (Oral) - Category 4  
  H302 Harmful if swallowed.

  Skin Irritation - Category 2  
  H315 Causes skin irritation.

  Eye Irritation - Category 2A  
  H319 Causes serious eye irritation.

  Specific Target Organ Toxicity - Single Exposure -  
  Category 3  
  H335 May cause respiratory irritation.

- Label elements
  - GHS label elements: The product is classified and labeled according to the Globally Harmonized System (GHS).
  - Hazard pictograms
  
  !
  GHS07

- Signal word: Warning

- Hazard-determining components of labeling:  
  Silicic acid, sodium salt

(Contd. on page 2)
Trade name: RetroPlate 99

• **Hazard statements**
  Harmful if swallowed.
  Causes skin irritation.
  Causes serious eye irritation.
  May cause respiratory irritation.

• **Precautionary statements**
  If medical advice is needed, have product container or label at hand.
  Keep out of reach of children.
  Read label before use.
  Avoid breathing dust/fume/gas/mist/vapours/spray.
  Wash thoroughly after handling.
  Do not eat, drink or smoke when using this product.
  Use only outdoors or in a well-ventilated area.
  Wear protective gloves/protective clothing/eye protection/face protection.
  If swallowed: Call a poison center/doctor if you feel unwell.
  Rinse mouth.
  If on skin: Wash with plenty of water.
  Specific treatment (see on this label).
  IF INHALED: Remove person to fresh air and keep comfortable for breathing.
  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
  Continue rinsing.
  If skin irritation occurs: Get medical advice/attention.
  Take off contaminated clothing and wash it before reuse.
  If eye irritation persists: Get medical advice/attention.
  Store in a well-ventilated place. Keep container tightly closed.
  Store locked up.
  Dispose of contents/container in accordance with local/regional/national/international regulations.

• **Classification system:**

• **NFPA ratings (scale 0 - 4)**

  - Health = 2
  - Fire = 0
  - Reactivity = 0

• **HMIS-ratings (scale 0 - 4)**

  - HEALTH = 2
  - FIRE = 0
  - REACTIVITY = 0

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### 3 Composition/Information on ingredients

• **Chemical characterization:** Mixtures

• **Description:** Mixture of the substances listed below with nonhazardous additions.

• **Dangerous components:**
  1344-09-8 Silicic acid, sodium salt
  35-40% w/w *

  * Actual concentration ranges are withheld as a trade secret.

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### 4 First-aid measures

• **Description of first aid measures**

• **General information:**
  Immediately remove any clothing soiled by the product.

(Contd. on page 3)
In case of irregular breathing or respiratory arrest provide artificial respiration.

- **After inhalation:** In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** If swallowed, seek medical advice immediately and show this container or label.

**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.

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### 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.
- **Special hazards arising from the substance or mixture**
  No further relevant information available.
- **Advice for firefighters**
- **Protective equipment**:
  No special measures required.

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### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions**:
  Do not allow product to reach storm sewer system or ground water
  Dilute with plenty of water.
- **Methods and material for containment and cleaning up**:
  Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  Dispose contaminated material as waste according to item 13.
  Ensure adequate ventilation.
- **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.

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### 7 Handling and storage

- **Handling**:
- **Precautions for safe handling**
  Ensure good ventilation/exhaustion at the workplace.
  Prevent formation of aerosols.
- **Information about protection against explosions and fires**:
  No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**:
- **Requirements to be met by storerooms and receptacles**:
  No special requirements.
- **Information about storage in one common storage facility**:
  Not required.
- **Further information about storage conditions**:
  Keep receptacle tightly sealed.
- **Specific end use(s)**
  No further relevant information available.

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### 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.
• Additional information: The lists that were valid during the creation were used as basis.

• Exposure controls
• Personal protective equipment:
• General protective and hygienic measures:
  Keep away from foodstuffs, beverages and feed.
  Immediately remove all soiled and contaminated clothing.
  Wash hands before breaks and at the end of work.
  Do not inhale gases / fumes / aerosols.
  Avoid contact with the skin.
  Avoid contact with the eyes and skin.
• Breathing equipment:
  In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
• Protection of hands:
  Protective gloves

  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.
• 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: Viscous
    Color: Light yellow
    Odor: Odorless
    Odor threshold: Not determined.
  • pH-value at 20 °C:
    11.3
  • Change in condition
    Melting point/Melting range: Undetermined.
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51.0.2

Boiling point/Boiling range: 110 °C

· Flash point: Not applicable.
· Flammability (solid, gaseous): Not applicable.
· Decomposition temperature: Not determined.
· Auto igniting: Product is not selfigniting.
· Danger of explosion: Product does not present an explosion hazard.
· Explosion limits:
  - Lower: Not determined.
  - Upper: Not determined.
· Vapor pressure at 20 °C: 23 hPa
· Density at 20 °C: 1.18-1.19 g/cm³
· Relative density Not determined.
· Vapor density Not determined.
· Evaporation rate Not determined.
· Solubility in / Miscibility with Water: Fully miscible.
· Partition coefficient (n-octanol/water): Not determined.
· Viscosity:
  - Dynamic: Not determined.
  - Kinematic: Not determined.
· Solvent content:
  - Organic solvents: 0.0 %
  - Water: 65.0 %
· Solids content: 20 %
· 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:
· Primary irritant effect:
  - on the skin: Irritant to skin and mucous membranes.
  - on the eye: No irritating effect.
· Sensitization: No sensitizing effects known.
· Additional toxicological information:
  The product shows the following dangers according to internally approved calculation methods for preparations:
Trade name: RetroPlate 99

Irritant

- Carcinogenic categories
- IARC (International Agency for Research on Cancer)
  None of the ingredients is listed.
- NTP (National Toxicology Program)
  None of the ingredients is listed.

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
    May cause or intensify fire; oxidizer.
    Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, 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: Do not allow product to reach storm water drains or ground water.

- 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/TGD, ADR, ADN, IMDG, IATA not regulated
  - UN proper shipping name not regulated
  - DOT/TGD, ADR, ADN, IMDG, IATA not regulated
  - Transport hazard class(es)

- DOT, ADR, ADN, IMDG, IATA not regulated

- Class I

- Packing group not regulated

- DOT/TGD, IMDG, IATA not regulated

- ADR not regulated

- Environmental hazards: No

- Marine pollutant: Not applicable.

- Special precautions for user
15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara
- 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):
  1344-09-8 Silicic acid, sodium salt
  7732-18-5 water, distilled, conductivity or of similar purity
- Canadian substance listings:
- Canadian Domestic Substances List (DSL)
  All ingredients are listed.
- Canadian Ingredient Disclosure list (limit 0.1%)
  None of the ingredients is listed.
- Canadian Ingredient Disclosure list (limit 1%)
  None of the ingredients is listed.
- GHS label elements
  The product is classified and labeled according to the Globally Harmonized System (GHS).
- Hazard pictograms

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GHS07

- Signal word
  Warning

- Hazard-determining components of labeling:
  Silicic acid, sodium salt

- Hazard statements
  Harmful if swallowed.
  Causes skin irritation.
  Causes serious eye irritation.
  May cause respiratory irritation.

- Precautionary statements
  If medical advice is needed, have product container or label at hand.
  Keep out of reach of children.
  Read label before use.
  Avoid breathing dust/fume/gas/mist/vapours/spray.
  Wash thoroughly after handling.
  Do not eat, drink or smoke when using this product.
  Use only outdoors or in a well-ventilated area.
  Wear protective gloves/protective clothing/eye protection/face protection.
  If swallowed: Call a poison center/doctor if you feel unwell.
  Rinse mouth.
  If on skin: Wash with plenty of water.
  Specific treatment (see on this label).
Trade name: RetroPlate 99

IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If skin irritation occurs: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.
If eye irritation persists: Get medical advice/attention.
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.
· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Technical Services
· Contact: Dave Hoyt
· Date of the latest revision of the safety data sheet 05/13/2020 /
· Abbreviations and acronyms:
  IMDG: International Maritime Code for Dangerous Goods
  DOT: US Department of Transportation
  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)
  NFPA: National Fire Protection Association (USA)
  HMIS: Hazardous Materials Identification System (USA)
  PBT: Persistent, Bioaccumulative and Toxic
  vPvB: very Persistent and very Bioaccumulative

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