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1. Material, Preparation and Company Designations

- **Product Specifications**
- **Trade name:** ASHFORD FORMULA
- **Manufacturer/Supplier:** Curecrete Chemical Company
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- **For information contact** Curecrete Chemical Company
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2. Composition / Component Specification

- **Chemical designation:** Catalytically modified inorganic sodium silicate solution
- **Composition / component information:**

Weight-%	CAS –Nr. 1344-09-8	Chemical name: Sodium silicate	
Index –Nr. none	EU –Nr. 215-687-4	Symbol(s) Si O ₂ /Na ₂ O	Warning signs R 36/37/38

- **Other information :** Rest: water

3. Possible Hazards

This product is not a hazardous material pursuant to the chemicals law and the hazardous materials regulation of 10-26-1993.

4. First Aid Actions

- **Symptoms and effects:** No known typical symptoms and effects

- **First aid:**

General:	When in doubt or when symptoms persist, medical treatment is required.
Inhaling:	Unlikely. Expose to fresh air.
Skin:	Immediately wash off with soap and water. Medical treatment may be indicated.
Eyes:	Rinse thoroughly with plenty of water. To ensure effective rinse pull away eye lids from eyeball. Medical treatment.
Swallowing:	Do not induce vomiting. Rinse mouth, have patient drink large volume of water or milk.

- **Advice to the physician:** High pH, caustic

5. Fire Fighting Actions

- **Fire extinguishing agents:** Not relevant: Product is not flammable
 - **Unsafe fire extinguishing agents:** None are known.
 - **Specific hazards:** None are known.
 - **Hazardous decomposition products (combustion products):** None are known
 - **Protective gear:** No specific suggestions
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6. Action in Case of Unintentional Release

Personal precautions:	Avoid contact with eyes and skin. Refer to Section 8 for personal protective measures.
Environmental protective measures:	Do not allow drainage into storm drains or waterways. The diluted reaction product, following reaction on the concrete surface, is generally recognized as safe.
Mopping up procedure:	Collect as much as possible in a container for reuse (preferable) or disposal according to local regulations. Sweep up the remainder with a liquid absorbing material such as sand, sawdust or vermiculite, and put it in a container for disposal, or dilute it with water on concrete surfaces.

7. Handling and Storage

Handling:	Do not inhale atomized mist. Avoid contact with skin, eyes and clothing. Comply with the usual precautionary measures when handling chemicals. Refer to Section 8 for personal protective measures.
Protection against fire and explosion:	No specific suggestions.
Storage requirements:	Protect product against freezing. Store product at temperatures below 70 °C (158 °F). When not in use, keep product closed in the original container. Store in factory provided containers only.
Other information:	Refer to “Storage Requirements” and Chapter 10 for materials used for installations and equipment.
NR - 7- storage class (07):	Storage class 12 – Non-flammable liquids (VCI - concept)

8. Limits of Exposure and Personal Protective Gear.

Technical protective measures: Use low-pressure sprayer. Do not atomize. If generating aerosol cannot be avoided, provide adequate ventilation and exhaust in the work area.

Component limit to be monitored in the work area A component limit has not determined.

Personal protective gear

Breathing organs: Use protective breathing equipment in case of atomization and insufficient ventilation.

Hands: Wear suitable protective gloves in case of direct skin exposure.

Eyes: Wear protective goggles in case of spray hazard, e.g. when transferring product to other containers.

Skin and body: Wear suitable protective clothing when handling the product..

9. Physical and Chemical Properties

Appearance:	Viscous liquid
Color:	Clear
Odor:	Odorless
Boiling point/range:	110°C (230 °F)
Melting point / range:	Not determined
Ignition point:	Not flammable
Inflammability / inflammation temperature:	Not applicable
Spontaneous ignition:	Not flammable
Explosion hazard:	Not determined
Explosion limits:	Not determined
Combustion promoting properties:	Not applicable
Vapor pressure :	Approx. 2.3 kPa (25°C [77 °F]) (same as water)
Density:	1.1889 g/cm ³
Bulk density:	Not applicable
Solubility in water:	Completely soluble
Solubility in other solvents:	Not determined
pH-value:	11.3 – 11.6
Distribution coefficient:	Not determined
n –octanol / water:	
Relative vapor density (air =1):	Not determined
Viscosity:	Not determined

10. Stability and Reactivity

Stability:	The product is stable.
Conditions to be avoided:	None
Materials to be avoided	Reacts with aluminum and other light metals and their alloys, with zinc and tin by forming hydrogen peroxide which, together with air, can form explosive mixtures. The product adheres to and etches glass walls. The product decomposes when mixed with acids releasing silicic acid.
Hazardous decomposition products	None known

11. Toxicological Specification

Name:	Inorganic silicate
Acute toxicity	
Oral LD50	Rat: > 2000 mg/kg (Lit.)
Dermal LD50	No data available
Inhaling LC50	No data available
Irritation	
Skin:	Mild skin irritant, but not sufficient to justify classification
Eyes:	Eye irritant, but not sufficient to justify classification
Sensitization:	Not sensitizing (Lit.)
Genetic toxicity	Does not cause mutations (in vitro) (Lit.)
Other toxicological information	Not carcinogenic (Lit.)

Ecological Specifications

The preparation has not been tested ecologically. The test results below apply to the following materials contained in the product.

Name:	Inorganic silicate
Eco-toxicological effect	
Fish:	96h-LC50 (Brachydaio rerio, OECD no.203): 3185 mg/l (ph < 10.3) (Lit.) Lower effect threshold (NOEL) (Brachydanio rerio) : >=1000 mg/l (Lit.)
Daphnia:	96h-LC50 (Lepomis macrochirus): > 301 mg/l (Lit.) 96h-EC50 (Daphnia magna) :>216 mg/l (Lit.) 100h-EC50 (Daphnia magna): 247 mg/l (Lit.)
Bacteria:	30 min-EC0 (Pseudomonas putida, OECD no. 209) :>1000 mg / l (Lit.) 18h-EC0 (Daphnia magna):>10000 mg/l (pH 6.88) (Lit.) 18h-ECO (Daphnia magna):>1000 mg / l (pH > 9) (Lit.)
Behavior in the environment:	
Non-biological degradation :	Hydrolyzed in an aqueous solution with a ph value of < 9 The silicate is 120 mg/l at this pH.
Biological degradation:	Not applicable (inorganic product)
Bio-accumulation:	No danger of bio-accumulation. Silicon compounds such as silicates are metabolically used by algae and plants without being accumulated.
Miscellaneous:	The information on endangering water organisms is caused by the increase in pH value. If the product is not neutralized, it can become toxic to water organisms due to its basicity.

13. Disposal Notes

Product: Dispose in compliance with local regulations.

Contaminated packaging: Containers that cannot be cleaned shall be disposed of in the same manner as the product.

ADR/GGVS – class	Not relevant	No	Not relevant
RID/GGVE – class	Not relevant	No.:	Not relevant
Hazard No.:	Not relevant	Material No.:	Not relevant
TREM-card:	Not relevant	UN-No:	None
Proper technical name	Not relevant		

Other information: Not a hazardous material pursuant to national and international shipping regulations.

Ocean shipment

IMO/IMDG-Code:	Not relevant	Class:	Not relevant
Packaging group	Not relevant	UN-No.	None
EMS-No:	Not relevant	MFAG-table:	Not relevant
Ocean contaminant:	No		
Proper technical name	Not relevant		

Other information: Not a hazardous material according to national and international shipping regulations

Air shipment

ICAO-TI/IATA-DGR	None
UN-No.:	
Class:	Not relevant
Packaging group:	Not relevant
Proper technical name:	Not relevant

Other information: Not a hazardous material according to national and international shipping regulations

15. Regulations

Chem. description: Inorganic silicate, solution

**Designation acc. to
EU directives:**

EU number: Not applicable

**Classification on the basis
of :** Tests

Symbols:

R –rates: None

S –rates: None

Other information: None

**Water endangering class
(WGK):** (Self classification), mildly water endangering

**Notifications regarding
occupational restrictions:** Labor law for the protection of children and young people par. 22

Emergency regulations: Not mentioned in the appendixes

**Technical instructions
pertaining to air:** Class III (self classification)

16. Other Specifications

This information is based on current state-of-knowledge, and is presented in good faith but without any guarantee. It is the responsibility of the user to ensure that the information is complete and suitable for the specific intended use.