Safety Data Sheet

SDS No: 50102

Section 1. Identification

Product Identifier:	**Aqua-Foam**
Product Use:	Toilet Bowl Cleaner
Manufacturer:	Thetford Corporation 7101 Jackson Road Ann Arbor, MI 48103
Emergency Numbers:	(734) 769-6000 (800) 424-9300 (CHEMTREC - 24 hours)

Section 2. Hazards Identification

Classification:	Eye Damage/Irritation - Category 2 Reproductive Toxicity - Category 2 Combustible Dust
Hazard Pictograms:	
Signal Word:	Warning
Hazard Statements:	Causes serious eye irritation. Suspected of damaging fertility or the unborn child. May form combustible dust concentrations in air.
Precautionary Statements:	
Prevention	Wash hands thoroughly after handling. Wear eye protection and protective gloves. Obtain special instruction before use. Do not handle until all safety precautions have been read and understood.
Response	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. IF EXPOSED OR CONCERNED: Get medical advice/attention.
Storage	Store locked up.
Disposal	Dispose of contents and container in accordance with all local regulations.

Section 3. Composition/ Information on Ingredients

Mixture of the following ingredients with non hazardous additions.

Ingredient Name	Wt%	CAS Number
Citric Acid	27.75	77-92-9
Borax Decahydrate	2	1303-96-4
Glycol Ether PnB	3	5131-66-8
Alkylbenzene Sulfonate	1.5	25155-30-0
Sodium Carbonate	15	497-19-8

Section 4. First Aid Measures

First Aid Measures

Inhalation:	Not applicable.
Skin Contact:	Flush contacted area with large amounts of water. Wash with soap and water. Wash clothes before reuse.
Eye Contact:	Flush contacted area with large amounts of water. Irrigate eyes for a minimum of 15 minutes. Get medical attention immediately.
Ingestion:	Do not induce vomiting. Drink large amounts of water. Contact a physician.

Potential Acute Health Effects

Inhalation:	May give off dust that is irritating to the respiratory system.
Skin Contact:	Not a skin irritant

Eye Contact:	Causes serious eye irritation
Ingestion:	Nontoxic if ingested
Potential Chronic Health Effects	None known

Section 5. Fire-Fighting Measures

Extinguishing Media:	Water, dry chemical, carbon dioxide or foam
Specific hazards arising from the chemical:	None known
Hazardous thermal decomposition products:	Oxides of carbon, oxides of sodium
Special protective actions for fire-fighters:	None
Special protective equipment for fire-fighters:	None

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Minimize dusting and prevent distribution of airborne dust. Sweep up and collect in suitable containers. Mop area with clean, clear water.

Method and materials for containment and clean up

Use spark-proof tools and explosion-proof equipment. Dispose of in accordance with federal, state, and local regulations.

Section 7. Handling and Storage

Precautions for safe handling:	Do not get in eyes or on skin. Do not inhale dust. Wash thoroughly after handling.
Conditions for safe storage:	Do not store above 100°F (38°C). Separate from strong acids, strong bases, strong oxidizers, and powdered aluminum.

Section 8. Exposure Control/Personal Protection

Occupational Exposure Limits

Some ingredients treated by OSHA as “Particulate Not Otherwise Classified” (PNOR).

OSHA/PEL (total dust):	15 mg/m3
OSHA/PEL (respirable dust):	5 mg/m3

Appropriate Engineering Controls

Maintain adequate ventilation. Use local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Personal Protection

Respiratory Protection:	Not required
Skin Protection:	Rubber gloves
Eye/Face Protection:	Safety glasses or goggles
Hygiene Measures:	Wash hands thoroughly after handling especially before eating, drinking and smoking. Wash contaminated clothing before reuse. Have eyewash and safety shower available.

Section 9. Physical and Chemical Properties

Physical State:	Solid, granules	Upper/Lower Explosive Limits:	Not available
Color:	White	Vapor Pressure:	Not available
Odor:	Fresh, clean scent	Vapor Density:	Not available
Odor Threshold:	Not available	Specific Gravity:	Not applicable
pH (10% solution)	7.5 - 9	Bulk Density:	54 - 59 lb/cu ft
Melting Point:	Not available	Solubility:	Mostly soluble
Freezing Point:	Not applicable	Partition coefficient n-octanol/water:	Not applicable

Boiling Point:	Not applicable		
Flash Point:	Not available	Auto-ignition Temperature:	Not available
Evaporation Rate:	Not available	Decomposition Temperature:	Not available
Flammability:	Not available	Viscosity:	Not applicable

Section 10. Stability and Reactivity

Reactivity:	Product releases carbon dioxide with the addition of water.
Chemical Stability:	The product is stable.
Possibility of Hazardous Reactions:	Under normal conditions of storage hazardous reactions will not occur. During use, product releases carbon dioxide with the addition of water.
Conditions to Avoid:	Elevated temperatures
Incompatible Materials:	Strong acids. Strong bases. Strong oxidizers. Powered aluminum.
Hazardous Decomposition Products:	Thermal decomposition may produce oxides of carbon and sodium.

Section 11. Toxicological Information

Information on the likely routes of exposure: Dermal contact. Inhalation.

Potential Acute Health Effects

Inhalation:	May give off dust that is irritating to the respiratory system.
Skin Contact:	Not a skin irritant.
Eye Contact:	Causes eye irritation.
Ingestion:	Nontoxic if ingested.

Symptoms Related to the Physical, Chemical and Toxicological Characteristics

Inhalation:	Inhalation of dust may cause coughing.
Skin Contact:	Not a skin irritant.
Eye Contact:	Irritating with tearing.
Ingestion:	Nontoxic if ingested.

Potential Chronic Health Effects

Short Term Exposure

Potential immediate effects: Not available

Long Term Exposure

Potential delayed effects:	Not available
General:	Not available
Carcinogenicity:	No known significant effects or critical hazards.
Mutagenicity:	No known significant effects or critical hazards.
Teratogenicity:	No known significant effects or critical hazards.
Developmental Effects:	No known significant effects or critical hazards.
Fertility Effects:	No known significant effects or critical hazards.

Information on Toxicological Effects

Acute Toxicity

Components:

Citric Acid	LD50 Oral LD50 Dermal	11,700 mg/kg (rat) >2,000 mg/kg (rat)

Borax Decahydrate	LD50 Oral LD50 Dermal LC50 Inhalation	5,560 mg/kg (rat) >2,000 mg/kg (rabbit) >2 mg/L (rat)
Glycol Ether PnB	LD50 Oral LD50 Dermal LC50 Inhalation	3,300 mg/kg (rat) > 2,000 mg/kg (rat) >3.5 mg/l vapor 4h
Alkylbenzene Sulfonate	LD50 Oral LD50 Dermal	1,080 - 1980 mg/kg (rat) >2,000 mg/kg (rabbit)
Sodium Carbonate	LD50 Oral LD50 Dermal LC50 Inhalation	2,800 mg/kg (rat) >2,000 mg/kg (rabbit) 800 mg/m3 (guinea pig)

Carcinogenicity: Not recognized as carcinogenic by Research Agencies (IARC, NTP, OSHA, ACGIH).

Mutagenicity: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Reproductive Toxicity: Borax in animal feeding studies in rat, mouse and dog, at high doses, have demonstrated effects on fertility and testes.

Section 12. Ecological Information

Toxicity: Not toxic to aquatic organisms.

Components

Citric Acid	LC50 Fish Bacteria	440 - 706 mg/l (DIN 38412 Part 15) >10.000 mg/l (DIN 38412 Part 5)
Borax Decahydrate	EC50 Algae EC50 Fish LC50 Daphnia Magna	10 mg B/L (Selenastrum capricornutum) 80 mg B/L (Pimephales promelas) 5.7 mg B/L
Glycol Ether PnB	LC50 Guppy LC50 Water flea	560 - 1,000 mg/l 96 hours > 1,000 mg/l
Alkylbenzene Sulfonate	EC50 Algae EC50 Daphnia LC50 Fish	29 mg/l 72 h 1.62 - 9.3 mg/l 48 h 3 mg/l 96 h
Sodium Carbonate	LC50 LC50 EC50 Nitzschia	300 mg/L 96 hours (Lepomis macrochirus) 310 - 1220 mg/L 96 hours (Pimephales promelas) 242 mg/L 120 hours

Persistence and Degradability: Organic ingredients are readily biodegradable

Bioaccumulative Potential: No bioaccumulation expected

Mobility in Soil: Not available

Other Adverse Effects: No known significant effects or critical hazards.

Section 13. Disposal Considerations

Disposal Methods: The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Waste disposal should be in accordance with existing federal, state, and local regulations. Do not reuse empty container. Discard of empty container in trash.

Section 14. Transport Information

UN Number:	Not Regulated	Hazard Class:	Not applicable
UN Proper Shipping Name:	Not applicable	Packing Group:	Not applicable
Environmental Hazard:	No		

Section 15. Regulatory Information

SARA 311/312: Immediate acute health hazard

SARA Title III Section 313 EHS: None
SARA Title III Section 313 Toxic: None

Section 16. Other Information

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