

Safety Data Sheet

SDS No: 50108

Section 1. Identification

Product Identifier: **Aqua-Kem Toss-Ins (All fragrance variations)**
Product Use: Holding tank deodorant
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 1 Skin Corrosion/Irritation - Category 2
Skin Sensitization - Category 1 Acute Toxicity - Oral - Category 4
Acute Toxicity - Inhalation - Category 4

Hazard Pictograms:



Signal Word: DANGER

Hazard Statements: Causes serious eye damage. Causes skin irritation. May cause an allergic skin reaction.
Harmful if swallowed or inhaled.

Precautionary Statements:

Prevention

Wear eye protection and protective gloves. Avoid breathing dust. Use only outdoors or in a well ventilated area. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.

Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call poison center. IF SWALLOWED: Call poison control center if you feel unwell. Rinse mouth. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical attention. Take off contaminated clothing and wash it before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call poison control center if you feel unwell.

Disposal

Dispose of contents and container in accordance with all local regulations.

1.58 - 2.40% of the mixture consists of an ingredient of unknown acute toxicity.

Section 3. Composition/Information on Ingredients

Mixture of the following ingredients with non hazardous additions.

Ingredient Name	Wt%	CAS Number
Bronopol	17.145	52-51-7
Alkyl Sulfate	1.33	Mixture - NA
Fragrance Oil	1.58 - 2.4	Mixture - NA

Section 4. First Aid Measures

First Aid Measures

Inhalation: Remove from contaminated area if irritation occurs.
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. Remove contact lenses if present and easy to do. Continue rinsing. Get medical attention immediately.

Ingestion: Do not induce vomiting. Drink large amounts of water. Contact a physician.

Potential Acute Health Effects

Inhalation: Dust may cause respiratory irritation.
Skin Contact: Causes irritation. May cause an allergic skin reaction.
Eye Contact: Causes serious eye damage.
Ingestion: Harmful if swallowed.

Potential Over-Exposure Symptoms

Inhalation: May be harmful if inhaled.
Skin Contact: Corrosive with symptoms of redness, itching, swelling, burns and possible permanent damage.
Eye Contact: Corrosive with symptoms of tearing, redness swelling, burns and possible permanent damage.
Ingestion: May cause coughing, burning, abdominal pain, vomiting, nausea, and diarrhea. May elevate blood pressure.

Potential Chronic Health Effects

Inhalation: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

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 nitrogen, halogenated compounds.
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

Wear appropriate personal clothing. Eliminate sources of ignition. Avoid inhalation and ventilate area. Sweep up spills. Place in closed containers for disposal. Mop area with plenty of clean, cold 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. Avoid release into the environment.

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). Keep container closed when not in use. Separate from strong acids, 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/m ³
OSHA/PEL (respirable dust):	5 mg/m ³

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. Use explosion-proof equipment if high dust/air concentrations are possible.

Personal Protection

Respiratory Protection:	NIOSH approved respirator with N95 cartridge may be permissible where airborne concentrations exceed exposure limits.
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. Do not allow contaminated clothing to leave the workplace. Have eyewash and safety shower available.

Section 9. Physical and Chemical Properties

Physical State:	Solid, granules	Upper/Lower Explosive Limits:	Not available
Color:	Blue	Vapor Pressure:	Not available
Odor:	Characteristic	Vapor Density:	Not available
Odor Threshold:	Not available	Specific Gravity:	Not applicable
pH (10% solution)	5 - 7	Bulk Density:	68 - 71 lb/cu ft
Melting Point:	Not available	Solubility:	95% 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:	No specific test data available on finished product.
Chemical Stability:	The product is stable.
Possibility of Hazardous Reactions:	Under normal conditions of storage and use hazardous reactions will not occur.
Conditions to Avoid:	Elevated temperatures.
Incompatible Materials:	Strong acids. Strong oxidizers. Corrosive to metals when wet.
Hazardous Decomposition Products:	Thermal decomposition may produce oxides of carbon and sodium. May evolve Chlorine gas when in contact with strong acids.

Section 11. Toxicological Information

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

Potential Acute Health Effects

Inhalation:	May give off dust that is irritating to the respiratory system.
Skin Contact:	Causes skin irritation. May cause allergic skin reaction.
Eye Contact:	Causes serious eye damage.
Ingestion:	Harmful if swallowed.

Symptoms Related to the Physical, Chemical and Toxicological Characteristics

Inhalation:	Dust causes coughing and irritation of the respiratory system.
Skin Contact:	Corrosive with symptoms of redness, itching, swelling, burns and possible permanent
Eye Contact:	Corrosive with symptoms of tearing, redness swelling, burns and possible permanent
Ingestion:	May cause coughing, burning, abdominal pain, vomiting, nausea, and diarrhea. May elevate blood pressure.

Potential Chronic Health Effects

Short Term Exposure

Potential immediate effects: Possible eye injury from contact.

Long Term Exposure

Potential delayed effects: May cause allergic skin reaction.

General: Repeated contact may cause dryness of the skin.

Carcinogenicity: Ingredients not listed by ACGIH, IARC, NIOSH, NTP OR OSHA.

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

Ingestion may result in high blood pressure.

Components:

Bronopol	LD50 Oral LD50 Dermal LC50 Inhalation	305 mg/kg (rat) >2000 mg/kg (rat) 800 mg/m ³ (rat) (Dusts and mists)
Alkyl Sulfate		Of low toxicity after single ingestion

Respiratory or skin sensitization

Respiratory sensitization: Not available.

Skin sensitization: May cause allergic skin reaction.

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: No data available to indicate product or any components present at greater than 0.1% presents reproductive hazards.

Specific target organ toxicity - single exposure:

None

Aspiration hazard

Due to the physical form of the product it is not an aspiration hazard

Acute toxicity estimates (ATE)

Route	ATE value
Oral	1311 mg/kg
Inhalation (dust)	4.68 mg/l

Section 12. Ecological Information

Toxicity

Aquatic Acute Category 2

Components

Bronopol	EC50 Algae EC50 Daphnia magna EC50 Daphnia magna IC50 Algae LC50 Fresh water	0.4 mg/l 72 hours 1.08 mg/l 48 hours 1.1 mg/l 48 hours 0.11 mg/l 72 hours (Scenedesmus subspicatus) 8.6 mg/l 96 hours (Fish - Danio rerio)
Alkyl Sulfate	LC50 Fish EC50 Daphnia magna EC50 Algae	>1 - ≤10 mg/l (Leuciscus idus) >1 - ≤10 mg/l >10 ≤ 100 mg/l (Scenedesmus subspicatus)

Persistence and Degradability: Organic ingredients are biodegradable.
Bioaccumulative Potential: Low 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 empty container in trash.

Section 14. Transport Information

UN Number:	UN1759	Hazard Class:	8
UN Proper Shipping Name:	Corrosive Solids, nos (Bronopol) (Limited Quantity)	Packing Group:	III

Regulated under all modes of transportation as UN1759 in limited quantities. Consult the individual regulations, IATA via air, IMDG via water and TDG for Canadian shipping information. NOT PACKAGED FOR AIR TRANSPORT.

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

Date of Issue:	26-May-15	Prepared by:	Janis Thomson
Date of previous issue:	11-Jun-12	MSDS Number:	50108
Version:	3		