

**MATERIAL SAFETY DATA SHEET**

**1. PRODUCT AND PREPARATION INFORMATION**

Manufacturer: Dominion Sure Seal Group of Companies  
 6175 Danville Road, Mississauga, Ontario  
 Canada, L5T 2H7  
 (905)670-5411  
 U.S.A. 1-800-265-0790  
 Emergency telephone numbers: Dominion Sure Seal (8 AM TO 4 PM EST)  
 (905)670-5411  
 CANUTEC (24 HR)  
 (613) 996 – 6666  
 Product Name: Aqualate  
 Product Code: TB101FL  
 Synonyms: Not Applicable  
 Generic Chemical Name: Dry mixture of Clay, Inorganic salt and Organic Polymer  
 Product Description: Waste Water Treatment Clay Blend  
 Molecular Formula: Mixture  
 Product Use: Flocculant  
 Prepared by: Regulatory Department  
 Preparation Date: June 1, 2010

**2. HAZARDOUS INGREDIENTS**

Hazardous Ingredients	CAS Number	Wt. %	TLV	LD/50 Route, Species	LC/50 Route, Species
Adipic Acid	124-04-9	2.5 - 10	5 mg/m <sup>3</sup>	> 11 g/kg (Oral; Rat)	ND

The other components of this product are not considered hazardous under applicable U.S. OSHA and/or Canadian WHMIS regulations.

NON-Hazardous Ingredients	CAS Number	Wt. %	TLV	LD/50 Route, Species	LC/50 Route, Species
Bentonite Clay	1302-78-9	80-100	10 mg/m <sup>3</sup>	Not Available	Not Available
Acrylic Resin	9003-01-4	1 - 5	N.Av.	2500 mg/kg (Oral, Rat)	Not Available

**3. PHYSICAL AND CHEMICAL PROPERTIES**

Physical State	Solid
Appearance	Tan powder
Odour	None
Odour Threshold	NA
Boiling Point (Deg.C)	NA
Melting/Freezing Point (Deg. C)	NA
Vapour Density (Air = 1)	NA
Specific Gravity (Estimate)	2.4 – 2.5
Vapour Pressure (mm Hg)	NA
Evaporation Rate, n-Butyl Acetate = 1	NA
pH	3.5
Solubility in Water	Slight, forms flocculated suspension
VOC (Weight %)	0

**4. FIRE AND EXPLOSION HAZARD**

Flammability:	This material will not burn
If Yes, Under Which Conditions:	NA
Flammability Limits in Air (%):	NA
Flash Point (TCC deg.C)	NA
Autoignition Temperature (Deg. C):	NA
Hazardous Combustion Products:	May produce hazardous decomposition products when exposed to extreme heat.
Sensitivity to Mechanical Impact:	NA
Rate of Burning:	NA
Explosive Power:	NA
Sensitivity to Static Discharge:	NA
Extinguishing Media:	Use media appropriate to extinguish surrounding fire. Product becomes slippery when wet.

**5. REACTIVITY DATA**

Chemical Stability:	Stable under normal conditions.
Incompatible Materials:	None known.
Hazardous Products of Decomposition:	None known.
Hazardous Polymerisation:	Will not occur.

**6. TOXICOLOGICAL PROPERTIES**

Emergency Overview:

Caution! May cause eye, skin and respiratory tract irritation. This product has the potential for generation of respirable dust during handling and use. Dust may contain respirable crystalline silica.

Primary Routes of Entry:

Skin Contact:	Yes
Skin Absorption:	No
Eye Contact:	Yes
Inhalation:	Yes
Ingestion:	Yes

Potential Health Effects:

Skin Contact:	Excessive contact may irritate the skin.
Eye Contact:	Dust contact with eyes may cause mechanical irritation.
Inhalation:	Repeated or prolonged inhalation may cause irritation of the respiratory tract.
Ingestion:	Not expected under normal use. Ingestion of large amounts may cause gastrointestinal irritation.

Acute Effects:

Acute LD50: 6039 mg/kg, Rat, Oral

Chronic Effects:

Carcinogenicity of material:

Bentonite clay CAS#1302-78-9 is not listed by ACGIH, IARC, NTP or CA Prop 65 as a carcinogen. This product may contain small quantities of naturally occurring crystalline silica. IARC (1997) has concluded that crystalline silica inhaled from occupational sources should be classified as carcinogenic to humans. The NTP identifies crystalline silica (respirable size) as a substance which may reasonable be anticipated to be a carcinogen. Chronic (long term) exposure to airborne crystalline silica may result in respiratory problems or silicosis, a respiratory disease caused by inhalation of silica dust, which can lead to inflammation and fibrosis of the lung tissue. The risk of developing silicosis depends on airborne concentration of crystalline silica, the particle size and duration of exposure.

## **Dominion Sure Seal**

## **Aqualate TB101FL**

---

	Protection against silicosis can be consistently assured by respecting the existing regulatory occupational exposure limits.
Reproductive effects:	This has not been tested for this product.
Teratogenicity:	This has not been tested for this product.
Mutagenicity:	This has not been tested for this product.

### **7. PREVENTIVE MEASURES**

---

Engineering Controls:	If material is used indoors in any operation which may generate dusts, use appropriate local exhaust and general room ventilation to keep exposures below the recommended exposure limits.
Eye Protection:	Wear dust goggles. Use of contact lenses not recommended. Eye wash fountain is recommended.
Skin Protection:	Use gloves as appropriate to prevent skin contact. Wear appropriate protective clothing to minimize contact with skin.
Respiratory Protection:	Respiratory protection is normally not required. Use a type N95 (US) dust mask where protection from nuisance levels of dusts are desired.
Leak/Spill Clean-Up Procedures:	Avoid breathing dust; wear a type N95 (US) dust mask. Sweep up, vacuum or gather up material and place in an appropriate container for disposal. Avoid using water. Product slippery when wet. Dispose in accordance with all applicable regulations.
Handling:	Keep formation of airborne dusts to a minimum. Provide appropriate exhaust ventilation at places where dust is formed. In case of insufficient ventilation, wear suitable respiratory equipment.
Storage:	Hygroscopic, keep containers tightly closed. No special restrictions on storage with other products.

### **8. FIRST AID MEASURES**

---

Eye Contact:	Immediately flush eyes with running warm water for a minimum of 15 minutes. Hold eyelids open during flushing. If irritation persists get medical attention. Eye wash fountain is recommended.
Skin Contact:	Wash thoroughly with soap and water until clean. If

## Dominion Sure Seal

## Aqualate TB101FL

Inhalation:	irritation persists get medical attention. If exposed to excessive levels of dust, move to fresh air. If symptoms of irritation persist, get medical attention.
Ingestion:	Rinse mouth thoroughly with water. If ingestion of a large amount does occur, seek medical attention.

## 9. TRANSPORT INFORMATION

---

Canadian TDG Classification:	This product is not regulated by TDG.
US DOT Classification:	This product is not regulated by DOT.

## 10. REGULATORY INFORMATION

---

### U.S. Federal Regulations

#### Occupational Safety and Health Administration (OSHA)

##### 29 CFR 1910.1200 Hazard Category:

Irritant – eyes; target organ effects reported

**Toxic Substances Control Act (TSCA):** All components of this product are included on the TSCA inventory.

#### **Comprehensive Environmental Response and Liability Act of 1980 (CERCLA) Hazardous Substances:**

Chemical Name	CAS Number	Reportable Quantity (RQ)
Adipic Acid	124-04-9	5000 lbs

#### **CAA, Section 112 Hazardous Air Pollutants:**

Chemical Name	CAS Number	Concentration
None	NA	NA

#### **Superfund Amendments and Reauthorization Act (SARA) Title III Information:**

##### **SARA (EPCRA) Section 311/312 (40 CFR 370) Hazard Categories:**

Immediate Hazard: Yes

Delayed Hazard: Yes

Fire Hazard: No

Pressure Hazard: No

Reactivity Hazard: No

**This product contains the following extremely hazardous substance(s) subject to the reporting requirements of SARA (EPCRA) Section 302:**

Chemical Name	CAS Number	Concentration
None	NA	NA

**This product contains the following toxic chemical(s) subject to reporting requirements of SARA**

**Dominion Sure Seal****Aqualate TB101FL**

---

**(EPCRA) Section 313 (40 CFR 372)**

<b>Chemical Name</b>	<b>CAS Number</b>	<b>Concentration</b>
None	NA	NA

**State Regulations**

**California:** This product contains the following chemical(s) known to the State of California to cause cancer, birth defects or reproductive harm:

<b>Component</b>	<b>CAS Number</b>	<b>Maximum %</b>
Crystalline silica as Quartz	14808-60-7	Not Available

The following product components are cited on the state lists below:

<b>Chemical Name</b>	<b>CAS Number</b>	<b>List Citations</b>
Adipic Acid	124-04-9	NJ, MA, PA - RTK

**International Regulations****Canadian Workplace Hazardous Materials Information System (WHMIS):**

D2B – Other Toxic Effects

**Canadian Environmental Protection Act (DSL):** All of the components of this product are included on the Canadian Domestic Substances list (DSL).

**European Inventory of Existing Chemicals (EINECS):** All of the components of this product are included on EINECS.

**11. OTHER INFORMATION**

---

**HMIS ratings:**  
Health: 1\*  
Flammability: 0  
Physical hazard: 0

The information contained herein is based on data considered accurate. No warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Dominion Sure Seal assumes no responsibility for personal injury or property damage to vendees or users or third parties, caused by the material. Such vendees or users assume all risks with the use of the material.