

## BROWNING TREATMENT

### SECTION 1. IDENTIFICATION

<b>Product Identifier</b>	BROWNING TREATMENT
<b>Other Means of Identification</b>	ECLEAN BROWNING TREATMENT
<b>Recommended Use</b>	Cellulose Browning Treatment.
<b>Restrictions on Use</b>	None known.
<b>Manufacturer</b>	Esteam Mfg Ltd, 3750 19th NE , Calgary , Alberta, T2E6V2, 403-291-7050, esteam.com
<b>Emergency Phone No.</b>	Canutec, 1-613-996-6666, 24 hr
<b>Date of Preparation</b>	December 09, 2016

### SECTION 2. HAZARD IDENTIFICATION

**Classification**

Eye irritation - Category 2A

**Label Elements**Signal Word:  
WarningHazard Statement(s):  
Causes serious eye irritation.Precautionary Statement(s):  
Wear eye protection/face protection.  
Wear protective gloves.Response:  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
Continue rinsing.**Other Hazards**

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers
Sodium metabisulfite	7681-57-4	1-5	

**Notes**

Product Identifier: BROWNING TREATMENT

Date of Preparation: December 09, 2016

\*The exact percentage (concentrations) of the substance in the mixture has been withheld as a trade secret.

## SECTION 4. FIRST-AID MEASURES

### First-aid Measures

#### Inhalation

Move to fresh air.

#### Skin Contact

Wash with plenty of water. Remove all contaminated clothes and shoes.

#### Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Remove contact lenses, if present and easy to do. If eye irritation persists, get medical advice or attention.

#### Ingestion

Rinse mouth with water. Call a Poison Centre or doctor if you feel unwell.

### Immediate Medical Attention and Special Treatment

#### Target Organs

Eyes, lungs.

#### Medical Conditions Aggravated by Exposure

Asthma, respiratory conditions.

## SECTION 5. FIRE-FIGHTING MEASURES

### Extinguishing Media

#### Suitable Extinguishing Media

Not combustible. Use extinguishing agent suitable for surrounding fire.

#### Unsuitable Extinguishing Media

Not applicable.

### Specific Hazards Arising from the Product

Does not burn.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment, and Emergency Procedures

Use the personal protective equipment recommended in Section 8 of this safety data sheet. Remove or isolate incompatible materials as well as other hazardous materials.

### Environmental Precautions

It is good practice to prevent releases into the environment.

### Methods and Materials for Containment and Cleaning Up

Contain and soak up spill with absorbent that does not react with spilled product.

## SECTION 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Do not get in eyes, on skin or on clothing. Keep containers tightly closed when not in use or empty.

### Conditions for Safe Storage

Store in an area that is: well-ventilated.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

Product Identifier: BROWNING TREATMENT

Date of Preparation: December 09, 2016

Page 02 of 05

Not available.

### Appropriate Engineering Controls

General ventilation is usually adequate.

### Individual Protection Measures

#### Eye/Face Protection

Wear chemical safety goggles.

#### Skin Protection

Wear Chemical protective gloves.

#### Respiratory Protection

Not normally required if product is used as directed.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Basic Physical and Chemical Properties

Appearance	Clear liquid.
Odour	Pungent sulfur dioxide odour
Odour Threshold	Not available
pH	3.0 - 4.5
Melting Point/Freezing Point	0 °C (freezing)
Initial Boiling Point/Range	100 °C
Flash Point	Not applicable
Evaporation Rate	Not available
Flammability (solid, gas)	Not applicable
Upper/Lower Flammability or Explosive Limit	Not applicable (upper); Not applicable (lower)
Vapour Pressure	Not available
Vapour Density (air = 1)	Not available
Relative Density (water = 1)	1
Solubility	Soluble in water
Partition Coefficient, n-Octanol/Water (Log Kow)	Not available
Auto-ignition Temperature	Not applicable
Decomposition Temperature	Not available
Viscosity	Not available (kinematic); Not available (dynamic)
Other Information	
Physical State	Liquid
Vapour Pressure at 50 deg C	Not available

## SECTION 10. STABILITY AND REACTIVITY

### Reactivity

Reacts with acids to form toxic and irritating sulfur dioxide gas

### Chemical Stability

Normally stable.

### Possibility of Hazardous Reactions

None expected under normal conditions of storage and use.

### Conditions to Avoid

Temperatures above 150.0 °C (302.0 °F)

### Incompatible Materials

Product Identifier: BROWNING TREATMENT

Date of Preparation: December 09, 2016

Page 03 of 05

Oxidizing agents (e.g. peroxides).

### **Hazardous Decomposition Products**

When heated to decomposition it emits toxic fumes of /sulfur and sodium.

## **SECTION 11. TOXICOLOGICAL INFORMATION**

### **Likely Routes of Exposure**

Inhalation; skin contact; eye contact; ingestion.

### **Acute Toxicity**

<b>Chemical Name</b>	<b>LC50</b>	<b>LD50 (oral)</b>	<b>LD50 (dermal)</b>
Sodium metabisulfite		1540 mg/kg (rat)	> 2000 mg/kg (rat)

### **Skin Corrosion/Irritation**

Not a skin irritant.

### **Serious Eye Damage/Irritation**

Animal tests show serious eye irritation.

### **STOT (Specific Target Organ Toxicity) - Single Exposure**

#### **Inhalation**

Symptoms may include coughing, shortness of breath, difficult breathing and tightness in the chest.

#### **Skin Absorption**

Not harmful.

#### **Ingestion**

May irritate the gastrointestinal tract. May cause severe allergic reactions in some asthmatics and sulfite sensitive individuals.

### **STOT (Specific Target Organ Toxicity) - Repeated Exposure**

No information was located.

### **Respiratory and/or Skin Sensitization**

No information was located.

### **Carcinogenicity**

Not a carcinogen.

### **Reproductive Toxicity**

#### **Development of Offspring**

No information was located.

#### **Sexual Function and Fertility**

No information was located.

### **Germ Cell Mutagenicity**

No information was located.

## **SECTION 12. ECOLOGICAL INFORMATION**

### **Persistence and Degradability**

No information was located.

### **Bioaccumulative Potential**

This product and its degradation products are not expected to bioaccumulate.

### **Mobility in Soil**

If released into the environment, this product is expected to move rapidly through the soil, based on physical and chemical properties.

## **SECTION 13. DISPOSAL CONSIDERATIONS**

Product Identifier: BROWNING TREATMENT

Date of Preparation: December 09, 2016

Page 04 of 05

## Disposal Methods

Contact local environmental authorities for approved disposal or recycling methods in your jurisdiction.

## SECTION 14. TRANSPORT INFORMATION

Not regulated under Canadian TDG regulations. Not regulated under US DOT Regulations.

**Special Precautions** Not applicable

**Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

## SECTION 15. REGULATORY INFORMATION

### Safety, Health and Environmental Regulations

#### Canada

##### Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed on the DSL/NDSL.

#### USA

##### Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are listed on the TSCA Inventory.

## SECTION 16. OTHER INFORMATION

**SDS Prepared By** Product safety manager

**Phone No.** 403-291-7050

**Date of Preparation** December 09, 2016

**Key to Abbreviations** NIOSH = National Institute for Occupational Safety and Health  
HSDB® = Hazardous Substances Data Bank

**References** CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS).  
Registry of Toxic Effects of Chemical Substances (RTECS®) database. Dassault  
Systèmes/BIOVIA ("BIOVIA"). Available from Canadian Centre for Occupational Health and  
Safety (CCOHS). Raw ingredient SDS's.

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Product Identifier: BROWNING TREATMENT

Date of Preparation: December 09, 2016

Page 05 of 05