



# Low Conductivity Antifreeze/Coolant

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision Date: 06/02/2014

Date of issue: 04/03/2014

Version: 1.0

## SECTION 1: IDENTIFICATION

### Product Identifier

**Product Name:** Low Conductivity Antifreeze/Coolant

**Product Code:** 300355.B

### Intended Use of the Product

Anti Freeze

### Name, Address, and Telephone of the Responsible Party

#### Company

Star brite Inc.

4041 SW 47<sup>th</sup> Avenue

Fort Lauderdale, FL 33314

(954)587-6280

[www.starbrite.com](http://www.starbrite.com)

### Emergency Telephone Number

**Emergency number** : US: (800) 424-9300; International: (703) 527-3887 (CHEMTREC)

## SECTION 2: HAZARDS IDENTIFICATION

### Classification of the Substance or Mixture

#### Classification (GHS-US)

Acute Tox. 4 (Oral) H302

STOT RE 2 H373

### Label Elements

#### GHS-US Labeling

#### Hazard Pictograms (GHS-US)



#### Signal Word (GHS-US)

: Warning

#### Hazard Statements (GHS-US)

: H302 - Harmful if swallowed

H373 - May cause damage to organs (Kidney) through prolonged or repeated exposure (Oral)

#### Precautionary Statements (GHS-US)

: P260 - Do not breathe mist, spray, vapors.

P264 - Wash hands, forearms, and exposed areas thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P314 - Get medical advice and attention if you feel unwell.

P330 - If swallowed, rinse mouth.

P501 - Dispose of contents/container according to local, regional, national, territorial, provincial, and international regulations.

### Other Hazards

**Other Hazards Not Contributing to the Classification:** Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.

**Unknown Acute Toxicity (GHS-US)** Not available

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### \* Mixture

| Name            | Product identifier | % (w/w) | Classification (GHS-US)                      |
|-----------------|--------------------|---------|--|
| Ethylene glycol | (CAS No) 107-21-1  | 55      | Acute Tox. 4 (Oral), H302<br>STOT RE 2, H373 |

\* The balance of the ingredients are either non-hazardous and/or are not present at or above the reporting threshold as defined in the United States 29 CFR 1910.1200 (OSHA).

# Low Conductivity Antifreeze/Coolant

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Full text of H-phrases: see section 16

### SECTION 4: FIRST AID MEASURES

#### Description of First Aid Measures

**General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible).

**Inhalation:** If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.

**Skin Contact:** Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Wash contaminated clothing before reuse. Obtain medical attention if irritation develops or persists.

**Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persist.

**Ingestion:** Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

#### Most Important Symptoms and Effects Both Acute and Delayed

**General:** Harmful if swallowed. May cause damage to organs through prolonged or repeated exposure.

**Inhalation:** Inhalation of vapors may cause respiratory irritation.

**Skin Contact:** May cause skin irritation.

**Eye Contact:** May cause eye irritation.

**Ingestion:** Harmful if swallowed.

**Chronic Symptoms:** May cause damage to organs through prolonged or repeated exposure.

#### Indication of Any Immediate Medical Attention and Special Treatment Needed

If medical advice is needed, have product container or label at hand.

### SECTION 5: FIRE-FIGHTING MEASURES

#### Extinguishing Media

**Suitable Extinguishing Media:** Use extinguishing media appropriate for surrounding fire.

**Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy stream of water may spread fire.

#### Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** Not flammable.

**Explosion Hazard:** Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.

**Reactivity:** Reacts with (strong) oxidizers: (increased) risk of fire.

#### Advice for Firefighters

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire.

**Firefighting Instructions:** Do not allow run-off from fire fighting to enter drains or water courses.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Carbon oxides (CO, CO<sub>2</sub>).

#### Reference to Other Sections

Refer to section 9 for flammability properties.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

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

**General Measures:** Avoid all contact with skin, eyes, or clothing. Avoid breathing (vapor, mist, gas).

#### For Non-Emergency Personnel

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

#### For Emergency Personnel

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Eliminate ignition sources. Ventilate area. Stop leak if safe to do so.

#### Environmental Precautions

Prevent entry to sewers and public waters.

#### Methods and Material for Containment and Cleaning Up

**For Containment:** Absorb and/or contain spill with inert material, then place in suitable container.

**Methods for Cleaning Up:** Clear up spills immediately and dispose of waste safely. Contact competent authorities after a spill.

#### Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection.

# Low Conductivity Antifreeze/Coolant

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 7: HANDLING AND STORAGE

#### Precautions for Safe Handling

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

#### Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Comply with applicable regulations.

**Storage Conditions:** Store in a dry, cool and well-ventilated place. Keep container closed when not in use.

**Incompatible Materials:** Strong acids. Strong bases. Strong oxidizers.

**Specific End Use(s)** Anti Freeze

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control Parameters

| Ethylene glycol (107-21-1) |                                    |                       |
|----------------------------|------------------------------------|-----------------------|
| Mexico                     | OEL Ceiling (mg/m <sup>3</sup> )   | 100 mg/m <sup>3</sup> |
| USA ACGIH                  | ACGIH Ceiling (mg/m <sup>3</sup> ) | 100 mg/m <sup>3</sup> |
| Alberta                    | OEL Ceiling (mg/m <sup>3</sup> )   | 100 mg/m <sup>3</sup> |
| British Columbia           | OEL Ceiling (mg/m <sup>3</sup> )   | 100 mg/m <sup>3</sup> |
| British Columbia           | OEL Ceiling (ppm)                  | 50 ppm                |
| British Columbia           | OEL STEL (mg/m <sup>3</sup> )      | 20 mg/m <sup>3</sup>  |
| British Columbia           | OEL TWA (mg/m <sup>3</sup> )       | 10 mg/m <sup>3</sup>  |
| Manitoba                   | OEL Ceiling (mg/m <sup>3</sup> )   | 100 mg/m <sup>3</sup> |
| New Brunswick              | OEL Ceiling (mg/m <sup>3</sup> )   | 100 mg/m <sup>3</sup> |
| Newfoundland & Labrador    | OEL Ceiling (mg/m <sup>3</sup> )   | 100 mg/m <sup>3</sup> |
| Nova Scotia                | OEL Ceiling (mg/m <sup>3</sup> )   | 100 mg/m <sup>3</sup> |
| Nunavut                    | OEL Ceiling (mg/m <sup>3</sup> )   | 127 mg/m <sup>3</sup> |
| Nunavut                    | OEL Ceiling (ppm)                  | 50 ppm                |
| Nunavut                    | OEL STEL (mg/m <sup>3</sup> )      | 20 mg/m <sup>3</sup>  |
| Nunavut                    | OEL TWA (mg/m <sup>3</sup> )       | 10 mg/m <sup>3</sup>  |
| Northwest Territories      | OEL Ceiling (mg/m <sup>3</sup> )   | 127 mg/m <sup>3</sup> |
| Northwest Territories      | OEL Ceiling (ppm)                  | 50 ppm                |
| Northwest Territories      | OEL STEL (mg/m <sup>3</sup> )      | 20 mg/m <sup>3</sup>  |
| Northwest Territories      | OEL TWA (ppm)                      | 10 ppm                |
| Ontario                    | OEL Ceiling (mg/m <sup>3</sup> )   | 100 mg/m <sup>3</sup> |
| Prince Edward Island       | OEL Ceiling (mg/m <sup>3</sup> )   | 100 mg/m <sup>3</sup> |
| Québec                     | PLAFOND (mg/m <sup>3</sup> )       | 127 mg/m <sup>3</sup> |
| Québec                     | PLAFOND (ppm)                      | 50 ppm                |
| Saskatchewan               | OEL Ceiling (mg/m <sup>3</sup> )   | 100 mg/m <sup>3</sup> |
| Yukon                      | OEL STEL (mg/m <sup>3</sup> )      | 325 mg/m <sup>3</sup> |
| Yukon                      | OEL STEL (ppm)                     | 125 ppm               |
| Yukon                      | OEL TWA (mg/m <sup>3</sup> )       | 250 mg/m <sup>3</sup> |
| Yukon                      | OEL TWA (ppm)                      | 100 ppm               |

#### Exposure Controls

**Appropriate Engineering Controls:** Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

**Personal Protective Equipment:** Protective clothing. Safety glasses. Gloves.



**Materials for Protective Clothing:** Chemically resistant materials and fabrics.

**Hand Protection:** Wear chemically resistant protective gloves.

# Low Conductivity Antifreeze/Coolant

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

**Eye Protection:** Chemical goggles or safety glasses.

**Skin and Body Protection:** Wear suitable protective clothing.

**Respiratory Protection:** Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.

**Other Information:** When using, do not eat, drink or smoke.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on Basic Physical and Chemical Properties

|   |   |
|---|---|
| Physical State                                    | : Liquid  |
| Appearance  | : Clear   |
| Odor  | : None  |
| Odor Threshold                                    | : Not available   |
| pH  | : 8   |
| Relative Evaporation Rate (butylacetate=1)        | : Not available   |
| Melting Point                                     | : - 40 °C (-40 °F)  |
| Freezing Point                                    | : Not available   |
| Boiling Point                                     | : Not available   |
| Flash Point                                       | : > 100 °C (212 °F)   |
| Auto-ignition Temperature                         | : Not available   |
| Decomposition Temperature                         | : Not available   |
| Flammability (solid, gas)                         | : Not available   |
| Lower Flammable Limit                             | : Not available   |
| Upper Flammable Limit                             | : Not available   |
| Vapor Pressure                                    | : Not available   |
| Relative Vapor Density at 20 °C                   | : Not available   |
| Relative Density                                  | : 1.08 (water = 1)  |
| Specific Gravity                                  | : Not available   |
| Solubility  | : Soluble in water.   |
| Partition coefficient: n-octanol/water            | : Not available   |
| Viscosity   | : Not available   |
| Explosion Data – Sensitivity to Mechanical Impact | : Not expected to present an explosion hazard due to mechanical impact. |
| Explosion Data – Sensitivity to Static Discharge  | : Not expected to present an explosion hazard due to static discharge.  |

## SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** Reacts with (strong) oxidizers: (increased) risk of fire.

**Chemical Stability:** Stable under recommended handling and storage conditions (see section 7).

**Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.

**Conditions to Avoid:** Direct sunlight. Extremely high or low temperatures.

**Incompatible Materials:** Strong acids. Strong bases. Strong oxidizers.

**Hazardous Decomposition Products:** Carbon oxides (CO, CO<sub>2</sub>).

## SECTION 11: TOXICOLOGICAL INFORMATION

### Information on Toxicological Effects - Product

**Acute Toxicity:** Harmful if swallowed.

**LD50 and LC50 Data:** Not available

**Skin Corrosion/Irritation:** Not classified (pH: 8)

**Serious Eye Damage/Irritation:** Not classified (pH: 8)

**Respiratory or Skin Sensitization:** Not classified

**Germ Cell Mutagenicity:** Not classified

**Teratogenicity:** Not available

**Carcinogenicity:** Not classified

**Specific Target Organ Toxicity (Repeated Exposure):** May cause damage to organs through prolonged or repeated exposure.

**Reproductive Toxicity:** Not classified

**Specific Target Organ Toxicity (Single Exposure):** Not classified

**Aspiration Hazard:** Not classified

**Symptoms/Injuries After Inhalation:** Inhalation of vapors may cause respiratory irritation.

# Low Conductivity Antifreeze/Coolant

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

**Symptoms/Injuries After Skin Contact:** May cause skin irritation.

**Symptoms/Injuries After Eye Contact:** May cause eye irritation.

**Symptoms/Injuries After Ingestion:** Harmful if swallowed.

**Chronic Symptoms:** May cause damage to organs through prolonged or repeated exposure.

### Information on Toxicological Effects - Ingredient(s)

#### LD50 and LC50 Data:

| Ethylene glycol (107-21-1) |                           |
|----------------------------|---------------------------|
| LD50 Oral Rat              | 4000 mg/kg                |
| LD50 Dermal Rabbit         | 3500 mg/kg                |
| ATE (oral)                 | 500.000 mg/kg body weight |

## SECTION 12: ECOLOGICAL INFORMATION

### Toxicity

| Ethylene glycol (107-21-1)     |  |
|--------------------------------|--|
| LC50 Fish 1                    | 41000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)                    |
| EC50 Daphnia 1                 | 46300 mg/l (Exposure time: 48 h - Species: Daphnia magna)                          |
| EC50 Other Aquatic Organisms 1 | 6500 - 13000 mg/l (Exposure time: 96 h - Species: Pseudokirchneriella subcapitata) |
| LC 50 Fish 2                   | 14 - 18 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])         |

**Persistence and Degradability** Not available

### Bioaccumulative Potential

| Ethylene glycol (107-21-1) |       |
|----------------------------|-------|
| Log Pow                    | -1.93 |

**Mobility in Soil** Not available

### Other Adverse Effects

**Other Information:** Avoid release to the environment.

## SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Disposal Recommendations:** Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

**Ecology – Waste Materials:** Avoid release to the environment.

## SECTION 14: TRANSPORT INFORMATION

In Accordance With ICAO/IATA/DOT/TDG

**UN Number** Not regulated for transport

**UN Proper Shipping Name** Not regulated for transport

## SECTION 15: REGULATORY INFORMATION

### US Federal Regulations

| Low Conductivity Antifreeze/Coolant  |  |
|--|--|
| <b>SARA Section 311/312 Hazard Classes</b>   | Immediate (acute) health hazard<br>Delayed (chronic) health hazard   |
| Ethylene glycol (107-21-1)   |  |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory<br>Listed on SARA Section 313 (Specific toxic chemical listings) |  |
| <b>EPA TSCA Regulatory Flag</b>  | Y2 - Y2 - indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule. |
| <b>SARA Section 313 - Emission Reporting</b>   | 1.0 %  |

### US State Regulations

| Ethylene glycol (107-21-1)  |  |
|---|--|
| U.S. - California - SCAQMD - Toxic Air Contaminants - Non-Cancer Chronic<br>U.S. - California - Toxic Air Contaminant List (AB 1807, AB 2728)<br>U.S. - Connecticut - Hazardous Air Pollutants - HLVs (30 min)<br>U.S. - Connecticut - Hazardous Air Pollutants - HLVs (8 hr) |  |

# Low Conductivity Antifreeze/Coolant

## Safety Data Sheet

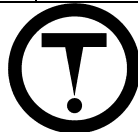
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities  
U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations  
U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs)  
U.S. - Illinois - Toxic Air Contaminants  
U.S. - Louisiana - Reportable Quantity List for Pollutants  
U.S. - Maine - Air Pollutants - Hazardous Air Pollutants  
U.S. - Massachusetts - Allowable Ambient Limits (AALs)  
U.S. - Massachusetts - Allowable Threshold Concentrations (ATCs)  
U.S. - Massachusetts - Drinking Water Guidelines  
U.S. - Massachusetts - Right To Know List  
U.S. - Massachusetts - Threshold Effects Exposure Limits (TEELs)  
U.S. - Massachusetts - Toxics Use Reduction Act  
U.S. - Michigan - Occupational Exposure Limits - Ceilings  
U.S. - Michigan - Polluting Materials List  
U.S. - Minnesota - Groundwater Health Risk Limits  
U.S. - Minnesota - Hazardous Substance List  
U.S. - Minnesota - Permissible Exposure Limits - Ceilings  
U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour  
U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual  
U.S. - New Jersey - Discharge Prevention - List of Hazardous Substances  
U.S. - New Jersey - Environmental Hazardous Substances List  
U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - New Jersey - Water Quality - Ground Water Quality Criteria  
U.S. - New Jersey - Water Quality - Practical Quantitation Levels (PQLs)  
U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances  
U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 1-Hour  
U.S. - Oregon - Permissible Exposure Limits - TWAs  
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List  
U.S. - Pennsylvania - RTK (Right to Know) List  
U.S. - Rhode Island - Air Toxics - Acceptable Ambient Levels - 1-Hour  
U.S. - Rhode Island - Air Toxics - Acceptable Ambient Levels - Annual  
U.S. - South Carolina - Toxic Air Pollutants - Maximum Allowable Concentrations  
U.S. - South Carolina - Toxic Air Pollutants - Pollutant Categories  
U.S. - Tennessee - Occupational Exposure Limits - Ceilings  
U.S. - Texas - Effects Screening Levels - Long Term  
U.S. - Texas - Effects Screening Levels - Short Term  
U.S. - Vermont - Permissible Exposure Limits - Ceilings  
U.S. - Washington - Permissible Exposure Limits - Ceilings  
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 25 Feet to Less Than 40 Feet  
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 40 Feet to Less Than 75 Feet  
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 75 Feet or Greater  
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights Less Than 25 Feet

### Canadian Regulations

#### Low Conductivity Antifreeze/Coolant

|                      |  |
|----------------------|--|
| WHMIS Classification | Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects<br>Class D Division 2 Subdivision B - Toxic material causing other toxic effects |
|----------------------|--|



#### Ethylene glycol (107-21-1)

Listed on the Canadian DSL (Domestic Substances List) inventory.

# Low Conductivity Antifreeze/Coolant

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

|   |   |
|---|---|
| Listed on the Canadian Ingredient Disclosure List |   |
| WHMIS Classification                              | Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects<br>Class D Division 2 Subdivision A - Very toxic material causing other toxic effects |

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

### SECTION 16: OTHER INFORMATION, INCLUDING DATA ON DATE OF PREPARATION OR LAST REVISION

**Revision date** : 06/02/2014  
**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

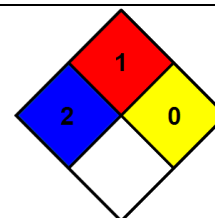
#### GHS Full Text Phrases:

|                     |   |
|---------------------|---|
| Acute Tox. 4 (Oral) | Acute toxicity (oral) Category 4                                  |
| Aquatic Acute 1     | Hazardous to the aquatic environment - Acute Hazard Category 1    |
| Aquatic Acute 3     | Hazardous to the aquatic environment - Acute Hazard Category 3    |
| Aquatic Chronic 1   | Hazardous to the aquatic environment - Chronic Hazard Category 1  |
| Eye Dam. 1          | Serious eye damage/eye irritation Category 1                      |
| Met. Corr. 1        | Corrosive to metals Category 1                                    |
| Skin Corr. 1A       | Skin corrosion/irritation Category 1A                             |
| Skin Irrit. 2       | Skin corrosion/irritation Category 2                              |
| Skin Sens. 1        | Skin sensitization Category 1                                     |
| STOT RE 2           | Specific target organ toxicity (repeated exposure) Category 2     |
| H290                | May be corrosive to metals  |
| H302                | Harmful if swallowed  |
| H314                | Causes severe skin burns and eye damage                           |
| H315                | Causes skin irritation  |
| H317                | May cause an allergic skin reaction                               |
| H318                | Causes serious eye damage   |
| H373                | May cause damage to organs through prolonged or repeated exposure |
| H400                | Very toxic to aquatic life  |
| H402                | Harmful to aquatic life   |
| H410                | Very toxic to aquatic life with long lasting effects              |

**NFPA Health Hazard** : 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

**NFPA Fire Hazard** : 1 - Must be preheated before ignition can occur.

**NFPA Reactivity** : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



#### Party Responsible for the Preparation of This Document

Starbrite®

Phone Number: (954)587-6280

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

North America GHS US 2012 & WHMIS