

Safety Data Sheet

according to Federal Register /Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision Date: 06/13/2014 Date of issue: 06/13/2014

**SECTION 1: IDENTIFICATION** 

Product Identifier

Product Name: 50/50 Pre-Diluted Antifreeze Coolant

Product Code: 030300GOLD Intended Use of the Product

Anti-freeze/Coolant

Name, Address, and Telephone of the Responsible Party

**Company** Starbrite®

4041 SW 47<sup>th</sup> Avenue Fort Lauderdale, FL 33314

(954)587-6280 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)

Version: 1.0

**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.

Aquatic Acute 3

H402 - Harmful to aquatic life

P273 - Avoid release to the environment.

**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	45 - 55	Acute Tox. 4 (Oral), H302
			STOT RE 2, H373

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Sodium nitrite	(CAS No) 7632-00-0	0.19 - 1	Ox. Sol. 2, H272
			Acute Tox. 3 (Oral), H301
			Eye Irrit. 2A, H319
			Aquatic Acute 1, H400

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 at least 15 minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Obtain medical attention if irritation persists.

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.

Inhalation: Inhalation of vapors may cause respiratory irritation. May cause drows iness or dizziness.

**Skin Contact:** May cause skin irritation. Absorbed through the skin.

**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 (dust, 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.

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**Reference to Other Sections** See heading 8, Exposure Controls and Personal Protection.

## **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 bases. Strong oxidizers.

**Specific End Use(s)** Anti-freeze/Coolant

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### **Control Parameters**

Ethylene glycol (107-21-1)		
Mexico	OEL Ceiling (mg/m³)	100 mg/m³
USA ACGIH	ACGIH Ceiling (mg/m³)	100 mg/m³
Alberta	OEL Ceiling (mg/m³)	100 mg/m³
British Columbia	OEL Ceiling (mg/m³)	100 mg/m³
British Columbia	OEL Ceiling (ppm)	50 ppm
British Columbia	OEL STEL (mg/m³)	20 mg/m³
British Columbia	OEL TWA (mg/m³)	10 mg/m³
Manitoba	OEL Ceiling (mg/m³)	100 mg/m³
New Brunswick	OEL Ceiling (mg/m³)	100 mg/m³
Newfoundland & Labrador	OEL Ceiling (mg/m³)	100 mg/m³
Nova Scotia	OEL Ceiling (mg/m³)	100 mg/m³
Nunavut	OEL Ceiling (mg/m³)	127 mg/m³
Nunavut	OEL Ceiling (ppm)	50 ppm
Nunavut	OEL STEL (mg/m³)	20 mg/m³
Nunavut	OEL TWA (mg/m³)	10 mg/m³
Northwest Territories	OEL Ceiling (mg/m³)	127 mg/m³
Northwest Territories	OEL Ceiling (ppm)	50 ppm
Northwest Territories	OEL STEL (mg/m³)	20 mg/m³
Northwest Territories	OEL TWA (ppm)	10 ppm
Ontario	OEL Ceiling (mg/m³)	100 mg/m³
Prince Edward Island	OEL Ceiling (mg/m³)	100 mg/m³
Québec	PLAFOND (mg/m³)	127 mg/m³
Québec	PLAFOND (ppm)	50 ppm
Saskatchewan	OEL Ceiling (mg/m³)	100 mg/m <sup>3</sup>
Yukon	OEL STEL (mg/m³)	325 mg/m³
Yukon	OEL STEL (ppm)	125 ppm
Yukon	OEL TWA (mg/m³)	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.

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Solubility

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

**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 Gold **Appearance** Odor None

**Odor Threshold** Not available : approximately 10 Relative Evaporation Rate (butylacetate=1) Not available **Melting/Freezing Point** Not available **Boiling Point** Not available Flash Point Not available **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/Specific Gravity 1.11 (water = 1)

Partition coefficient: n-octanol/water Viscosity Not available Explosion Data - Sensitivity to Mechanical Impact : Not expected to present an explosion hazard due to mechanical impact.

Soluble in water.

Not expected to present an explosion hazard due to static discharge.

Not available

# Explosion Data - Sensitivity 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 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: approximately 10) Serious Eye Damage/Irritation: Not classified (pH: approximately 10)

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

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Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: Inhalation of vapors may cause respiratory irritation. May cause drows in ess or dizziness.

Symptoms/Injuries After Skin Contact: May cause skin irritation. Absorbed through the skin.

**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:

1200 4114 1000 24041	
Sodium nitrite (7632-00-0)	
LD50 Oral Rat	180 mg/kg
LC50 Inhalation Rat (mg/l)	5.5 mg/l/4h
Ethylene glycol (107-21-1)	
LD50 Oral Rat	4000 mg/kg
LD50 Dermal Rabbit	3500 mg/kg

## **SECTION 12: ECOLOGICAL INFORMATION**

## **Toxicity** Not classified

Sodium nitrite (7632-00-0)	
LC50 Fish 1	0.19 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])
LC 50 Fish 2	0.092 - 0.13 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])
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)
LC 50 Fish 2	14 - 18 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])

# Persistence and Degradability Not available

#### **Bioaccumulative Potential**

Sodium nitrite (7632-00-0)	
Log Pow	-3.7 (at 25 °C)
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**

50/50 Pre-Diluted Antifreeze Coolant		
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard	
	Delayed (chronic) health hazard	
Sodium nitrite (7632-00-0)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
Listed on SARA Section 313 (Specific toxic chemical listings)		
EPA TSCA Regulatory Flag	S - S - indicates a substance that is identified in a proposed or final Significant New	

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Uses Rule.

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SARA Section 311/312 Hazard Classes	Reactive hazard Immediate (acute) health hazard
SARA Section 313 - Emission Reporting	1.0 %
Ethylene glycol (107-21-1)	
Listed on the United States TSCA (Toxic Subs	tances Control Act) inventory
Listed on SARA Section 313 (Specific toxic ch	emical listings)
EPA TSCA Regulatory Flag	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.
SARA Section 313 - Emission Reporting	1.0 %

### **US State Regulations**

### Sodium nitrite (7632-00-0)

- U.S. Delaware Pollutant Discharge Requirements Reportable Quantities
- U.S. Louisiana Reportable Quantity List for Pollutants
- U.S. Massachusetts Oil & Hazardous Material List Groundwater Reportable Concentration Reporting Category 1
- U.S. Massachusetts Oil & Hazardous Material List Groundwater Reportable Concentration Reporting Category 2
- U.S. Massachusetts Oil & Hazardous Material List Reportable Quantity
- U.S. Massachusetts Oil & Hazardous Material List Soil Reportable Concentration Reporting Category 1
- U.S. Massachusetts Oil & Hazardous Material List Soil Reportable Concentration Reporting Category 2
- RTK U.S. Massachusetts Right To Know List
- U.S. Massachusetts Toxics Use Reduction Act
- U.S. Michigan Polluting Materials List
- U.S. New Jersey Discharge Prevention List of Hazardous Substances
- U.S. New Jersey Environmental Hazardous Substances List
- RTK U.S. New Jersey Right to Know Hazardous Substance List
- U.S. New York Reporting of Releases Part 597 List of Hazardous Substances
- RTK U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- RTK U.S. Pennsylvania RTK (Right to Know) List
- U.S. Texas Effects Screening Levels Long Term
- U.S. Texas Effects Screening Levels Short Term

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

- U.S. California SCAQMD Toxic Air Contaminants Non-Cancer Chronic
- U.S. California Toxic Air Contaminant List (AB 1807, AB 2728)
- U.S. Connecticut Hazardous Air Pollutants HLVs (30 min)
- U.S. Connecticut Hazardous Air Pollutants HLVs (8 hr)
- 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
- RTK U.S. Massachusetts Right To Know List
- U.S. Massachusetts Threshold Effects Exposure Limits (TELs)
- 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

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- 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
- RTK 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. California Safer Consumer Products Initial List of Candidate Chemicals and Chemical Groups
- RTK U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- RTK 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**

## 50/50 Pre-Diluted Antifreeze Coolant

WHMIS Classification Class D Division 2 Subdivision A - Very toxic material causing other toxic effects



### Sodium nitrite (7632-00-0)

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

Listed on the Canadian Ingredient Disclosure List

WHMIS Classification Class C - Oxidizing Material

Class D Division 2 Subdivision B - Toxic material causing other toxic effects

Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects

## Ethylene glycol (107-21-1)

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

Listed on the Canadian Ingredient Disclosure List

WHMIS Classification Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects

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** : 06/13/2014

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. 3 (Oral)	Acute toxicity (oral) Category 3
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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
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Met. Corr. 1	Corrosive to metals Category 1
Ox. Sol. 2	Oxidizing solids Category 2
Skin Corr. 1A	Skin corrosion/irritation Category 1A
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
H272	May intensify fire; oxidizer
H290	May be corrosive to metals
H301	Toxic if swallowed
H302	Harmfulifswallowed
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H319	Causes serious eye irritation
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H402	Harmful to aquatic life

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

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