



# Pro Star Bath, Shower & Tile Cleaner

## Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015).

Revision Date: 10/14/2016 Date of Issue: 10/14/2016 Supersedes Date: 05/13/2016 Version: 2.0

### SECTION 1: IDENTIFICATION

#### Product Identifier

**Product Form:** Mixture

**Product Name:** Pro Star Bath, Shower & Tile Cleaner

**Product Code:** 1240XX

#### Intended Use of the Product

Bath and Tile Cleaner

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

Starbrite® 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

##### GHS-US/CA Classification

Skin Corr. 1B H314

Eye Dam. 1 H318

Full text of hazard classes and H-statements : see section 16

#### Label Elements

##### GHS-US/CA Labeling

##### Hazard Pictograms (GHS-US/CA)

:



GHS05

##### Signal Word (GHS-US/CA)

: Danger

##### Hazard Statements (GHS-US/CA)

: H314 - Causes severe skin burns and eye damage.

H318 - Causes serious eye damage.

##### Precautionary Statements (GHS-US/CA)

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

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

P280 - Wear protective gloves, protective clothing, and eye protection.

P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water.

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a POISON CENTER or doctor.

P321 - Specific treatment (see section 4 on this SDS).

P363 - Wash contaminated clothing before reuse.

P405 - Store locked up.

P501 - Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

#### Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions. May be corrosive to respiratory tract.

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### Unknown Acute Toxicity (GHS-US/CA)

No data available

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### Mixture

Name	Product Identifier	% *	GHS Ingredient Classification
Hydroxyacetic acid	(CAS No) 79-14-1	2.198 - 2.2995	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 3, H402
Alkyl Ammonium Compound; Alkoxylated Alcohol; Amphoteric Surfactant A, B, and C	(CAS No) Proprietary	0.1 - 1	Skin Irrit. 2, H315 Eye Irrit. 2B, H320
Octylphenol ethoxylate	(CAS No) 9036-19-5	0.08 - 0.8	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
Citral	(CAS No) 5392-40-5	0.000239 - 0.00239	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 Aquatic Acute 2, H401

Full text of H-phrases: see section 16

\*Percentages are listed in weight by weight percentage (w/w%) for liquid and solid ingredients. Gas ingredients are listed in volume by volume percentage (v/v%).

The specific chemical identity and/or exact percentage of composition have been withheld as a trade secret [29 CFR 1910.1200].

An exemption has been granted from the Hazardous Materials Information Review Act (HMIRA) for the components indicated above as Trade Secret. See below for registry number(s) and their corresponding date(s) that exemption(s) were granted:

Alkyl Ammonium Compound; Alkoxylated Alcohol; Amphoteric Surfactant A, B, and C - 9037; 05/15/2015

## 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 where possible).

**Inhalation:** When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

**Skin Contact:** Remove contaminated clothing. Immediately flush skin with plenty of water for at least 60 minutes. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or doctor.

**Eye Contact:** Rinse cautiously with water for at least 60 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

**Ingestion:** Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

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

**General:** Causes severe skin burns and eye damage. Causes serious eye damage.

**Inhalation:** May be corrosive to the respiratory tract.

**Skin Contact:** Causes severe irritation which will progress to chemical burns.

**Eye Contact:** Causes serious eye damage. Causes permanent damage to the cornea, iris, or conjunctiva.

**Ingestion:** May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

**Chronic Symptoms:** None known.

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

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

## SECTION 5: FIRE FIGHTING MEASURES

### Extinguishing Media

**Suitable Extinguishing Media:** Water spray, dry chemical, foam, carbon dioxide.

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**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 considered flammable but may burn at high temperatures.

**Explosion Hazard:** Product is not explosive. Not explosive, but may release hydrogen gas on contact with some metals.

**Reactivity:** May react exothermically with water releasing heat. Adding an acid to a base or base to an acid may cause a violent reaction. Contact with metals may evolve flammable hydrogen gas.

### **Advice for Firefighters**

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

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers. Remove containers from fire area if this can be done without risk. Do not breathe fumes from fires or vapors from decomposition.

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

**Hazardous Combustion Products:** Thermal decomposition generates: Carbon oxides (CO, CO<sub>2</sub>). Nitrogen oxides. Hydrocarbons. Hydrochloric acid. Corrosive vapors.

### **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:** Do not get in eyes, on skin, or on clothing. Do not breathe vapor, mist or spray.

#### **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:** Ventilate area. Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

### **Environmental Precautions**

Prevent entry to sewers and public waters.

### **Methods and Materials for Containment and Cleaning Up**

**For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. As an immediate precautionary measure, isolate spill or leak area in all directions.

**Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Cautiously neutralize spilled liquid. Absorb and/or contain spill with inert material. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

### **Reference to Other Sections**

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

## **SECTION 7: HANDLING AND STORAGE**

### **Precautions for Safe Handling**

**Additional Hazards When Processed:** May release corrosive vapors.

**Precautions for Safe Handling:** Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Handle empty containers with care because they may still present a hazard. Do not get in eyes, on skin, or on clothing. Do not breathe mist, spray, and vapors.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures.

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

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

**Storage Conditions:** Keep container closed when not in use. Store in a dry, cool, and well ventilated place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store in original container or corrosive resistant and/or lined container.

**Incompatible Materials:** Strong bases. Strong oxidizers. Cyanides. Sulfides. Active metals. Iron salts.

### **Specific End Use(s)**

Bath and Tile Cleaner

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.

Citral (5392-40-5)		
USA ACGIH	ACGIH TWA (ppm)	5 ppm (inhalable fraction and vapor)
USA ACGIH	ACGIH chemical category	dermal sensitizer, Skin - potential significant contribution to overall exposure by the cutaneous route, Not Classifiable as a Human Carcinogen
Manitoba	OEL TWA (ppm)	5 ppm (inhalable fraction and vapor)
Newfoundland & Labrador	OEL TWA (ppm)	5 ppm (inhalable fraction and vapor)
Nova Scotia	OEL TWA (ppm)	5 ppm (inhalable fraction and vapor)
Ontario	OEL TWA (ppm)	5 ppm (inhalable fraction and vapor)
Prince Edward Island	OEL TWA (ppm)	5 ppm (inhalable fraction and vapor)

### 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:** Gloves. Protective clothing. Protective goggles. Face shield. Insufficient ventilation: wear respiratory protection.



**Materials for Protective Clothing:** Chemically resistant materials and fabrics. Corrosion-proof clothing.

**Hand Protection:** Wear protective gloves.

**Eye Protection:** Chemical safety goggles and face shield.

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

**Respiratory Protection:** In case of insufficient ventilation, wear suitable respiratory equipment.

**Environmental Exposure Controls:** Avoid release to the environment.

**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	: Colorless
Odor	: Characteristic
Odor Threshold	: Not available
pH	: 2
Evaporation Rate	: Not available
Melting Point	: Not available
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

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Relative Vapor Density at 20°C	: Not available
Relative Density	: Not available
Specific Gravity	: 1.007
Solubility	: Soluble in water
Partition Coefficient: N-Octanol/Water	: Not available
Viscosity	: Not available

## SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** May react exothermically with water releasing heat. Adding an acid to a base or base to an acid may cause a violent reaction. Contact with metals may evolve flammable hydrogen gas.

**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, and incompatible materials.

**Incompatible Materials:** Strong bases. Strong oxidizers. Cyanides. Sulfides. Active metals. Iron salts.

**Hazardous Decomposition Products:** Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: TOXICOLOGICAL INFORMATION

### Information on Toxicological Effects - Product

**Acute Toxicity (Oral):** Not classified

**Acute Toxicity (Dermal):** Not classified

**Acute Toxicity (Inhalation):** Not classified

**LD50 and LC50 Data:** Not available

**Skin Corrosion/Irritation:** Causes severe skin burns and eye damage.

**pH:** 2

**Eye Damage/Irritation:** Causes serious eye damage.

**pH:** 2

**Respiratory or Skin Sensitization:** Not classified

**Germ Cell Mutagenicity:** Not classified

**Carcinogenicity:** Not classified

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

**Reproductive Toxicity:** Not classified

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

**Aspiration Hazard:** Not classified

**Symptoms/Injuries After Inhalation:** May be corrosive to the respiratory tract.

**Symptoms/Injuries After Skin Contact:** Causes severe irritation which will progress to chemical burns.

**Symptoms/Injuries After Eye Contact:** Causes serious eye damage. Causes permanent damage to the cornea, iris, or conjunctiva.

**Symptoms/Injuries After Ingestion:** May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

**Chronic Symptoms:** None known.

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

**LD50 and LC50 Data:**

Hydroxyacetic acid (79-14-1)	
LD50 Oral Rat	1950 mg/kg
LC50 Inhalation Rat	3.6 mg/l/4h
LC50 Inhalation Rat	1.76 mg/l/4h
Octylphenol ethoxylate (9036-19-5)	
LD50 Oral Rat	1700 mg/kg
Citral (5392-40-5)	
LD50 Oral Rat	4960 mg/kg
LD50 Dermal Rabbit	2250 mg/kg

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## SECTION 12: ECOLOGICAL INFORMATION

### Toxicity

Ecology - General: Not classified.

<b>Hydroxyacetic acid (79-14-1)</b>	
LC50 Fish 1	> 5000 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])
EC50 Daphnia 1	44 mg/l
<b>Octylphenol ethoxylate (9036-19-5)</b>	
LC50 Fish 1	7.2 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 Daphnia 1	8.6 mg/l (Exposure time: 48 h - Species: Daphnia magna [static])
NOEC Chronic Fish	0.084 ppm
NOEC Chronic Crustacea	0.037 ppm
<b>Citral (5392-40-5)</b>	
LC50 Fish 1	4.1 mg/l
EC50 Daphnia 1	7 mg/l (Exposure time: 48 h - Species: Daphnia magna)

### Persistence and Degradability

<b>Pro Star Bath, Shower &amp; Tile Cleaner</b>	
Persistence and Degradability	Not established.

### Bioaccumulative Potential

<b>Pro Star Bath, Shower &amp; Tile Cleaner</b>	
Bioaccumulative Potential	Not established.

<b>Hydroxyacetic acid (79-14-1)</b>	
Log Pow	-1.11 (at 19 °C)
<b>Citral (5392-40-5)</b>	
Log Pow	2.76 (at 25 °C)

**Mobility in Soil** Not available

### Other Adverse Effects

Other Information: Avoid release to the environment.

## SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Disposal Recommendations:** Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations

**Additional Information:** Container may remain hazardous when empty. Continue to observe all precautions.

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

## SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

\*Note: This product is not regulated for transportation, it does not meet the definition of a corrosive material according to the regulatory bodies listed in this section. According to Hazcom 2012 and WHMIS 2015 this material is classified as corrosive due to its extreme pH of 2.

**In Accordance with DOT** Not regulated for transport

**Marine Pollutant:** No

**In Accordance with IMDG** Not regulated for transport

**In Accordance with IATA** Not regulated for transport

**In Accordance with TDG** Not regulated for transport

## SECTION 15: REGULATORY INFORMATION

### US Federal Regulations

<b>Pro Star Bath, Shower &amp; Tile Cleaner</b>	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
<b>Hydroxyacetic acid (79-14-1)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

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<b>Octylphenol ethoxylate (9036-19-5)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>EPA TSCA Regulatory Flag</b>	XU - XU - indicates a substance exempt from reporting under the Inventory Update Reporting Rule, i.e, Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(C))

<b>Citral (5392-40-5)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory

<b>US State Regulations</b>
<b>Hydroxyacetic acid (79-14-1)</b>
U.S. - Texas - Effects Screening Levels - Long Term
U.S. - Texas - Effects Screening Levels - Short Term

<b>Octylphenol ethoxylate (9036-19-5)</b>
U.S. - Texas - Effects Screening Levels - Long Term
U.S. - Texas - Effects Screening Levels - Short Term

<b>Citral (5392-40-5)</b>
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. - North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour
U.S. - Texas - Effects Screening Levels - Long Term
U.S. - Texas - Effects Screening Levels - Short Term

<b>Canadian Regulations</b>
<b>Hydroxyacetic acid (79-14-1)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Octylphenol ethoxylate (9036-19-5)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Citral (5392-40-5)</b>
Listed on the Canadian DSL (Domestic Substances List)

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

**Revision Date** : 10/14/2016  
**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada's Hazardous Products Regulations (HPR).

### GHS Full Text Phrases:

Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2
Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Eye Irrit. 2B	Serious eye damage/eye irritation Category 2B
Flam. Liq. 4	Flammable liquids Category 4
Skin Corr. 1B	Skin corrosion/irritation Category 1B
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization Category 1
H227	Combustible liquid
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation

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H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H320	Causes eye irritation
H332	Harmful if inhaled
H401	Toxic to aquatic life
H402	Harmful to aquatic life
H411	Toxic to aquatic life with long lasting effects

### NFPA Health Hazard

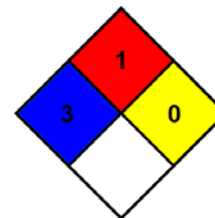
: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.

### NFPA Fire Hazard

: 1 - Must be preheated before ignition can occur.

### NFPA Reactivity Hazard

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



*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.*

NA GHS SDS 2015 (US, Can, Mex)