# SAFETY DATA SHEET

#### 1. Identification

**Product identifier** Starbrite Aqua Water Tank & System Flush

Other means of identification

Product code 323XX

Recommended use Water treatment. Recommended restrictions None known.

# 2. Hazard(s) identification

**Physical hazards** Not classified.

Skin corrosion/irritation Category 1B **Health hazards** 

> Serious eye damage/eye irritation Category 1

Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

**Environmental hazards** Hazardous to the aquatic environment, acute Category 3

hazard

Not classified. **OSHA** defined hazards

Label elements



Signal word Danger

**Hazard statement** Causes severe skin burns and eye damage. May cause respiratory irritation. Harmful to aquatic

**Precautionary statement** 

Prevention Do not breathe mist or vapor. Wear protective gloves/protective clothing/eye protection/face

protection. Wash thoroughly after handling. Avoid release to the environment.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and Response

easy to do. Continue rinsing. If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you

feel unwell. Collect spillage.

**Storage** Store locked up. Store in a well-ventilated place. Keep container tightly closed.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

## 3. Composition/information on ingredients

**Mixtures** 

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Chemical name	CAS number	%
Benzalkonium chloride	68391-01-5	<10
Isopropyl alcohol	67-63-0	< 1

#### 4. First-aid measures

Inhalation If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.

Get medical attention if symptoms persist.

Skin contact Remove and isolate contaminated clothing and shoes. Immediately flush skin with plenty of water.

Get medical attention immediately. For minor skin contact, avoid spreading material on unaffected

skin. Wash clothing separately before reuse.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact

present and easy to do. Continue rinsing. Get medical attention immediately.

Rinse mouth thoroughly. Call a physician or poison control center immediately. Do not induce Ingestion

vomiting without advice from poison control center.

Most important symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

Causes skin and eye burns. May cause respiratory tract irritation.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Specific hazards arising from

Water. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

None known.

Treat symptomatically.

the chemical

Self-contained breathing apparatus, operated in positive pressure mode and full protective clothing

Special protective equipment and precautions for firefighters

Fire-fighting equipment/instructions must be worn in case of fire. Move containers from fire area if you can do it without risk.

During fire, gases hazardous to health may be formed.

Specific methods Use water spray to cool unopened containers.

# 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet. Ensure adequate ventilation. Ventilate closed spaces before entering them. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Methods and materials for containment and cleaning up Stop the flow of material, if this is without risk. Prevent entry into waterways, sewers, basements or confined areas. Dike the spilled material, where this is possible. Collect spillage. Do not allow material to contaminate ground water system.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece).

Large Spills: Dike far ahead of spill for later disposal. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

Never return spills to original containers for re-use. Following product recovery, flush area with water. This material and its container must be disposed of as hazardous waste. Clean up in accordance with all applicable regulations.

**Environmental precautions** 

Prevent further leakage or spillage if safe to do so. Do not contaminate water.

7. Handling and storage

Precautions for safe handling

Do not get in eyes, on skin, on clothing. Do not breathe mist or vapor. Do not eat, drink or smoke when using the product. Do not use in areas without adequate ventilation. Wear personal protective equipment. Avoid prolonged exposure. Wash thoroughly after handling. Avoid release to the environment. Do not empty into drains.

Conditions for safe storage, including any incompatibilities Keep locked-up. Store in a well-ventilated place. Keep container tightly closed. Store in a closed container away from incompatible materials. Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs.

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## 8. Exposure controls/personal protection

Occupational exposure limits No exposure limits noted for ingredient(s).

**Biological limit values** No biological exposure limits noted for the ingredient(s).

Appropriate engineering

controls

Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of vapors.

Individual protection measures, such as personal protective equipment

Eye/face protection Use approved safety goggles or face shield.

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Other Wear suitable protective clothing.

In case of inadequate ventilation, use respiratory protection. Respiratory protection

Thermal hazards Not available.

General hygiene considerations

Do not get this material in your eyes, on your skin, or on your clothing. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove

contaminants.

# 9. Physical and chemical properties

**Appearance** Blue liquid. Liquid. Physical state **Form** Liquid. Color Blue. Odorless. Odor Not available. **Odor threshold** 

Not available. Melting point/freezing point Initial boiling point and boiling Not available.

range

Flash point > 212.0 °F (> 100.0 °C) Closed Cup

Not available. **Evaporation rate** Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

Not available.

Not available. **Explosive limit - lower (%)** Explosive limit - upper (%) Not available. Not available. Vapor pressure Not available. Vapor density Not available. Relative density

Solubility(ies)

Solubility (water) Complete. Partition coefficient Not available.

(n-octanol/water)

Not available. **Auto-ignition temperature** Not available. **Decomposition temperature** Not available. **Viscosity** 

## 10. Stability and reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport. Reactivity

Material is stable under normal conditions. Chemical stability

Starbrite Aqua Water Tank & System Flush

SDS US

919326 Version #: 01 Revision date: -Issue date: 15-May-2014 Possibility of hazardous

reactions

Hazardous polymerization does not occur.

Conditions to avoid

Contact with incompatible materials.

Incompatible materials

Oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

# 11. Toxicological information

Information on likely routes of exposure

Ingestion May have a corrosive effect on the digestive canal.

May cause irritation to the respiratory system. Inhalation

Skin contact Causes skin burns. Eve contact Causes eye burns.

Symptoms related to the physical, chemical and toxicological characteristics Causes skin and eye burns. May cause respiratory irritation.

Information on toxicological effects

**Acute toxicity** May have a corrosive effect on the digestive canal.

**Test Results** Components

Benzalkonium chloride (CAS 68391-01-5)

Acute

Dermal

Rat LD50 1420 mg/kg

Oral

LD50 Rat 240 mg/kg

Skin corrosion/irritation Causes skin burns. Serious eye damage/eye

irritation

Causes eye burns.

Respiratory or skin sensitization

Not classified. Respiratory sensitization Not classified. Skin sensitization Not classified. Germ cell mutagenicity

Carcinogenicity This product is not considered to be a carcinogen by NTP, IARC, or OSHA.

Reproductive toxicity Not classified. Specific target organ toxicity single exposure

Not classified.

Specific target organ toxicity -

repeated exposure **Aspiration hazard** 

Not classified.

Not classified.

#### 12. Ecological information

**Ecotoxicity** Harmful to aquatic life.

**Test Results** Components **Species** 

Benzalkonium chloride (CAS 68391-01-5)

Aquatic

Fish Guppy (Poecilia reticulata) LC50 1.3 mg/l, 96 hours

Persistence and degradability Not established. Bioaccumulative potential Not established. Mobility in soil Not established. Other adverse effects Not established.

# 13. Disposal considerations

Dispose of contents/container in accordance with local/regional/national/international regulations. **Disposal instructions** 

Hazardous waste code Waste codes should be assigned by the user based on the application for which the product was

used

Waste from residues / unused

Contaminated packaging

products

Dispose of waste and residues in accordance with local authority requirements.

Since emptied containers retain product residue, follow label warnings even after container is

emptied.

### 14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

Transport in bulk according to

Not available.

Annex II of MARPOL 73/78 and

the IBC Code

## 15. Regulatory information

**US** federal regulations

This product is hazardous according to OSHA 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Yes

chemical

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
Isopropyl alcohol	67-63-0	< 1

### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

**Safe Drinking Water Act** 

Not regulated.

(SDWA)

**US** state regulations

**US. Massachusetts RTK - Substance List** 

Not regulated.

US. New Jersey Worker and Community Right-to-Know Act

Not listed.

US. Pennsylvania Worker and Community Right-to-Know Law

Not listed.

**US. Rhode Island RTK** 

Not regulated.

**US. California Proposition 65** 

Not listed.

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

# 16. Other information, including date of preparation or last revision

Issue date 15-May-2014

Revision date - Version # 01

Further information HMIS® is a registered trade and service mark of the NPCA.

**NFPA Ratings** 



References ACGIH

EPA: AQUIRE database

NLM: Hazardous Substances Data Base

US. IARC Monographs on Occupational Exposures to Chemical Agents

HSDB® - Hazardous Substances Data Bank

IARC Monographs. Overall Evaluation of Carcinogenicity National Toxicology Program (NTP) Report on Carcinogens

ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices

**Disclaimer** The information contained herein is based on data considered accurate. However, no warranty is

expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Star brite assumes no responsibility for injury to the vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, Star brite assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material.

Yes

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).