



# SAFETY DATA SHEET

## 1. Identification

**Product identifier** Starbrite Instant Hull Cleaner

**Other means of identification**

**Product code** 817XX

**Recommended use** Cleaner

**Recommended restrictions** None known.

**Manufacturer/Importer/Supplier/Distributor information**

**Company name** Star brite Inc.

**Address** 4041 SW 47th Avenue  
Fort Lauderdale, FL 33314 US

**Telephone** General Information: (954) 587-6280

**E-mail** Not available.

**Contact person** Vincent Waclawek

**Emergency phone number** 24-Hour Emergency: CHEMTREC: (703) 527-3887  
or (800) 424-9300

## 2. Hazard(s) identification

**Physical hazards** Flammable liquids Category 4

**Health hazards** Skin corrosion/irritation Category 2  
Serious eye damage/eye irritation Category 2A

**OSHA defined hazards** Not classified.

### Label elements



**Signal word** Warning

**Hazard statement** Combustible liquid. Causes skin irritation. Causes serious eye irritation.

**Precautionary statement**

**Prevention** Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing mist or vapor. Wash thoroughly after handling. Avoid release to the environment.

**Response** If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Take off contaminated clothing and wash before reuse.

**Storage** Keep locked-up.

**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

| Chemical name                 | CAS number | %   |
|-------------------------------|------------|-----|
| Oxalic acid                   | 144-62-7   | 8   |
| Ethylene glycol n-butyl ether | 111-76-2   | 4.5 |

## 4. First-aid measures

|   |  |
|---|--|
| <b>Inhalation</b>   | If symptomatic, move to fresh air. Get medical attention if symptoms persist.  |
| <b>Skin contact</b>   | Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash contaminated clothing before reuse. |
| <b>Eye contact</b>  | Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.                |
| <b>Ingestion</b>  | Seek medical advice.   |
| <b>Most important symptoms/effects, acute and delayed</b>                     | Causes skin and eye irritation. May cause respiratory tract irritation.  |
| <b>Indication of immediate medical attention and special treatment needed</b> | Treat symptomatically.   |

## 5. Fire-fighting measures

|  |   |
|--|---|
| <b>Suitable extinguishing media</b>                                  | Water. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).   |
| <b>Unsuitable extinguishing media</b>                                | None known.   |
| <b>Specific hazards arising from the chemical</b>                    | Combustible liquid and vapor.   |
| <b>Special protective equipment and precautions for firefighters</b> | Self-contained breathing apparatus, operated in positive pressure mode and full protective clothing must be worn in case of fire. |
| <b>Fire-fighting equipment/instructions</b>                          | Move containers from fire area if you can do it without risk.   |
| <b>Specific methods</b>  | Use water spray to cool unopened containers.  |

## 6. Accidental release measures

|  |   |
|--|---|
| <b>Personal precautions, protective equipment and emergency procedures</b> | Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). 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.   |
| <b>Methods and materials for containment and cleaning up</b>               | 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.<br><br>Small Spills: Wipe up with absorbent material (e.g. cloth, fleece).<br><br>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.<br><br>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. |
| <b>Environmental precautions</b>   | Prevent further leakage or spillage if safe to do so. Do not contaminate water.   |

## 7. Handling and storage

|   |  |
|---|--|
| <b>Precautions for safe handling</b>                                | Keep away from heat, spark, open flames and other sources of ignition. Avoid contact with eyes, skin, and clothing. Avoid breathing mist or vapor. Wear personal protective equipment. Use only with adequate ventilation. Wash thoroughly after handling. |
| <b>Conditions for safe storage, including any incompatibilities</b> | Keep locked-up. Keep container tightly closed and in a well-ventilated place. Do not handle or store near an open flame, heat or other sources of ignition. Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs.        |

## 8. Exposure controls/personal protection

### Occupational exposure limits

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

| Components                                   | Type | Value                               |
|--|------|-------------------------------------|
| Ethylene glycol n-butyl ether (CAS 111-76-2) | PEL  | 240 mg/m <sup>3</sup><br><br>50 ppm |

**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

| Components                 | Type | Value               |
|----------------------------|------|---------------------|
| Oxalic acid (CAS 144-62-7) | PEL  | 1 mg/m <sup>3</sup> |

**US. ACGIH Threshold Limit Values**

| Components                                   | Type | Value               |
|--|------|---------------------|
| Ethylene glycol n-butyl ether (CAS 111-76-2) | TWA  | 20 ppm              |
| Oxalic acid (CAS 144-62-7)                   | STEL | 2 mg/m <sup>3</sup> |
|  | TWA  | 1 mg/m <sup>3</sup> |

**US. NIOSH: Pocket Guide to Chemical Hazards**

| Components                                   | Type | Value                |
|--|------|----------------------|
| Ethylene glycol n-butyl ether (CAS 111-76-2) | TWA  | 24 mg/m <sup>3</sup> |
|  |      | 5 ppm                |
| Oxalic acid (CAS 144-62-7)                   | STEL | 2 mg/m <sup>3</sup>  |
|  | TWA  | 1 mg/m <sup>3</sup>  |

**Biological limit values**

**ACGIH Biological Exposure Indices**

| Components                                   | Value    | Determinant                              | Specimen            | Sampling Time |
|--|----------|--|---------------------|---------------|
| Ethylene glycol n-butyl ether (CAS 111-76-2) | 200 mg/g | Butoxyacetic acid (BAA), with hydrolysis | Creatinine in urine | *             |

\* - For sampling details, please see the source document.

**Exposure guidelines** No exposure standards allocated.

**US - California OELs: Skin designation**

Ethylene glycol n-butyl ether (CAS 111-76-2) Can be absorbed through the skin.

**US - Minnesota Haz Subs: Skin designation applies**

Ethylene glycol n-butyl ether (CAS 111-76-2) Skin designation applies.

**US - Tennessee OELs: Skin designation**

Ethylene glycol n-butyl ether (CAS 111-76-2) Can be absorbed through the skin.

**US. NIOSH: Pocket Guide to Chemical Hazards**

Ethylene glycol n-butyl ether (CAS 111-76-2) Can be absorbed through the skin.

**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

Ethylene glycol n-butyl ether (CAS 111-76-2) Can be absorbed through the skin.

**Appropriate engineering controls**

Ensure adequate ventilation, especially in confined areas. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Provide adequate ventilation. General ventilation normally adequate. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Skin protection**

**Hand protection** Wear protective gloves. Suitable gloves can be recommended by the glove supplier.

**Other** Wear suitable protective clothing. Anti-static and flame-retardant protective clothing is recommended. Wear chemical protective equipment that is specifically recommended by the manufacturer.

**Respiratory protection** When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

**Thermal hazards** Not available.

**General hygiene considerations**

Always observe national occupational health and hygiene requirements including requirements for medical surveillance.

**9. Physical and chemical properties**

|   |                     |
|---|---------------------|
| <b>Appearance</b>                                   | Clear liquid.       |
| <b>Physical state</b>                               | Liquid.             |
| <b>Form</b>   | Liquid.             |
| <b>Color</b>  | Clear.              |
| <b>Odor</b>   | Sweet. Pleasant.    |
| <b>Odor threshold</b>                               | Not available.      |
| <b>pH</b>   | 1 Approx.           |
| <b>Melting point/freezing point</b>                 | Not available.      |
| <b>Initial boiling point and boiling range</b>      | 212 °F (100 °C)     |
| <b>Flash point</b>                                  | 153.9 °F (67.7 °C)  |
| <b>Evaporation rate</b>                             | Similar to water.   |
| <b>Flammability (solid, gas)</b>                    | Not available.      |
| <b>Upper/lower flammability or explosive limits</b> |                     |
| <b>Flammability limit - lower (%)</b>               | Not available.      |
| <b>Flammability limit - upper (%)</b>               | Not available.      |
| <b>Explosive limit - lower (%)</b>                  | Not available.      |
| <b>Explosive limit - upper (%)</b>                  | Not available.      |
| <b>Vapor pressure</b>                               | Not available.      |
| <b>Vapor density</b>                                | Not available.      |
| <b>Relative density</b>                             | 1.01 @ 20 °C        |
| <b>Solubility(ies)</b>                              |                     |
| <b>Solubility (water)</b>                           | Completely soluble. |
| <b>Partition coefficient (n-octanol/water)</b>      | Not available.      |
| <b>Auto-ignition temperature</b>                    | Not available.      |
| <b>Decomposition temperature</b>                    | Not available.      |
| <b>Viscosity</b>                                    | Not available.      |
| <b>Other information</b>                            |                     |
| <b>Percent volatile</b>                             | Not available.      |

**10. Stability and reactivity**

|   |   |
|---|---|
| <b>Reactivity</b>                         | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| <b>Chemical stability</b>                 | Stable at normal conditions.  |
| <b>Possibility of hazardous reactions</b> | Hazardous polymerization does not occur.  |
| <b>Conditions to avoid</b>                | Heat, sparks, flames, elevated temperatures. Contact with incompatible materials.             |
| <b>Incompatible materials</b>             | Strong oxidizing agents. Chlorites and hypochlorites.   |
| <b>Hazardous decomposition products</b>   | No hazardous decomposition products are known.  |

**11. Toxicological information****Information on likely routes of exposure**

|                     |   |
|---------------------|---|
| <b>Ingestion</b>    | No harmful effects expected in amounts likely to be ingested by accident. |
| <b>Inhalation</b>   | May cause respiratory tract irritation.                                   |
| <b>Skin contact</b> | Causes skin irritation.   |
| <b>Eye contact</b>  | Causes serious eye irritation.  |

**Symptoms related to the physical, chemical and toxicological characteristics** Irritant effects.

**Information on toxicological effects**

**Acute toxicity** Not classified.

| <b>Components</b>                            | <b>Species</b> | <b>Test Results</b> |
|--|----------------|---------------------|
| Ethylene glycol n-butyl ether (CAS 111-76-2) |                |                     |
| <b>Acute</b>                                 |                |                     |
| <i>Dermal</i>                                |                |                     |
| LD50   | Rabbit         | 400 mg/kg           |
| <i>Inhalation</i>                            |                |                     |
| LC50   | Mouse          | 700 mg/l, 7 Hours   |
|  | Rat            | 450 mg/l, 4 Hours   |
| <i>Oral</i>                                  |                |                     |
| LD50   | Guinea pig     | 1.2 g/kg            |
|  | Mouse          | 1.2 g/kg            |
|  | Rabbit         | 0.32 g/kg           |
|  | Rat            | 560 mg/kg           |
| <i>Other</i>                                 |                |                     |
| LD50   | Mouse          | 1130 mg/kg          |
|  | Rabbit         | 280 mg/kg           |
|  | Rat            | 340 mg/kg           |

Oxalic acid (CAS 144-62-7)

**Acute**

*Oral*

LC50 Rat 375 mg/kg

**Skin corrosion/irritation** Causes skin irritation.

**Serious eye damage/eye irritation** Causes serious eye irritation.

**Respiratory or skin sensitization**

**Respiratory sensitization** Not classified.

**Skin sensitization** Not classified.

**Germ cell mutagenicity** Not classified.

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

**IARC Monographs. Overall Evaluation of Carcinogenicity**

Ethylene glycol n-butyl ether (CAS 111-76-2) 3 Not classifiable as to carcinogenicity to humans.

**Reproductive toxicity** Not classified.

**Specific target organ toxicity - single exposure** Not classified.

**Specific target organ toxicity - repeated exposure** Not classified.

**Aspiration hazard** Not classified.

**12. Ecological information**

**Ecotoxicity** Not expected to be harmful to aquatic organisms.

| <b>Components</b>                            | <b>Species</b>                             | <b>Test Results</b> |
|--|--|---------------------|
| Ethylene glycol n-butyl ether (CAS 111-76-2) |  |                     |
| <b>Aquatic</b>                               |  |                     |
| Fish   | LC50 Inland silverside (Menidia beryllina) | 1250 mg/l, 96 hours |

| Components   | Species                         | Test Results             |
|--|---------------------------------|--------------------------|
| Oxalic acid (CAS 144-62-7)                               |                                 |                          |
| <b>Aquatic</b>   |                                 |                          |
| Crustacea  | EC50 Water flea (Daphnia magna) | 125 - 150 mg/l, 48 hours |
| <b>Persistence and degradability</b>                     | Not established.                |                          |
| <b>Bioaccumulative potential</b>                         | Not established.                |                          |
| <b>Partition coefficient n-octanol / water (log Kow)</b> |                                 |                          |
| Ethylene glycol n-butyl ether (CAS 111-76-2)             | 0.83                            |                          |
| <b>Mobility in soil</b>                                  | Not established.                |                          |
| <b>Other adverse effects</b>                             | Not established.                |                          |

### 13. Disposal considerations

|  |  |
|--|--|
| <b>Disposal instructions</b>                 | Dispose of contents/container in accordance with local/regional/national/international regulations.            |
| <b>Hazardous waste code</b>                  | The waste code should be assigned in discussion between the user, the producer and the waste disposal company. |
| <b>Waste from residues / unused products</b> | Dispose in accordance with applicable federal, state, and local regulations.                                   |
| <b>Contaminated packaging</b>                | Offer rinsed packaging material to local recycling facilities.   |

### 14. Transport information

#### DOT

|                                     |   |
|-------------------------------------|---|
| <b>UN number</b>                    | NA1993  |
| <b>UN proper shipping name</b>      | Combustible liquids, n.o.s. (Ethylene glycol n-butyl ether) |
| <b>Transport hazard class(es)</b>   |   |
| <b>Class</b>                        | Combustible Liquid  |
| <b>Subsidiary risk</b>              | -   |
| <b>Packing group</b>                | III   |
| <b>Special precautions for user</b> | Not available.  |
| <b>Special provisions</b>           | B1, B52, IB3, T4, TP1, TP29                                 |
| <b>Packaging exceptions</b>         | 150   |
| <b>Packaging non bulk</b>           | 203   |
| <b>Packaging bulk</b>               | 242   |

#### IATA

Not regulated as dangerous goods.

#### IMDG

Not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not available.

### 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)

Oxalic acid (CAS 144-62-7) 1.0 % One-Time Export Notification only.

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

Not listed.

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

Ethylene glycol n-butyl ether (CAS 111-76-2) LISTED

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories**  
 Immediate Hazard - Yes  
 Delayed Hazard - No  
 Fire Hazard - Yes  
 Pressure Hazard - No  
 Reactivity Hazard - No

#### SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical Yes

SARA 313 (TRI reporting)

| Chemical name                 | CAS number | % by wt. |
|-------------------------------|------------|----------|
| Ethylene glycol n-butyl ether | 111-76-2   | 4.5      |

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 (SDWA) Not regulated.

US state regulations This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

US. Massachusetts RTK - Substance List

Ethylene glycol n-butyl ether (CAS 111-76-2)

Oxalic acid (CAS 144-62-7)

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

Ethylene glycol n-butyl ether (CAS 111-76-2)

Oxalic acid (CAS 144-62-7)

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

Ethylene glycol n-butyl ether (CAS 111-76-2)

Oxalic acid (CAS 144-62-7)

US. Rhode Island RTK

Ethylene glycol n-butyl ether (CAS 111-76-2)

US. California Proposition 65

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

International Inventories

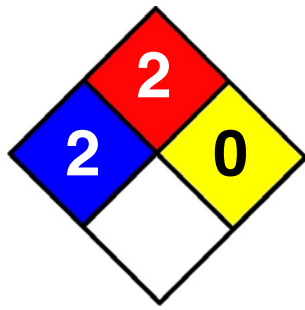
| Country(s) or region        | Inventory name   | On inventory (yes/no)* |
|-----------------------------|--|------------------------|
| Australia                   | Australian Inventory of Chemical Substances (AICS)                     | Yes                    |
| Canada                      | Domestic 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                          | Yes                    |

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

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).

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

|               |             |
|---------------|-------------|
| Issue date    | 15-May-2014 |
| Revision date | -           |
| Version #     | 01          |

**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

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