# **Material Safety Data Sheet**



Betco Bar Glass Detergent

### 1. Product and company identification

Product name : Betco Bar Glass Detergent

Supplier : Betco Corporation

1001 Brown Avenue Toledo, OH 43607 www.betco.com 888-462-3826

Synonym : Not available.

Trade name : Not available.

Material uses : Special: Dishwashing detergents.

**Manufacturer** : Betco Corporation

1001 Brown Avenue Toledo, Ohio 43607 www.betco.com 888-462-3826

 Code
 : 257

 MSDS #
 : 257

 Validation date
 : 4/1/2015.

 Print date
 : 4/1/2015.

In case of emergency : Chemtrec (800) 424-9300

Product type : Liquid.

### 2. Hazards identification

#### **Emergency overview**

Physical state : Liquid.

Color : Clear. Purple.

Odor : Odorless.

Signal word : CAUTION!

**Hazard statements**: MAY CAUSE EYE AND SKIN IRRITATION.

Precautionary measures : Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

Routes of entry : Dermal contact. Eye contact.

Potential acute health effects

Inhalation : No known significant effects or critical hazards.Ingestion : No known significant effects or critical hazards.

Skin : Moderately irritating to the skin.

Eyes : Moderately irritating to eyes.

#### Potential chronic health effects

Chronic effects
 No known significant effects or critical hazards.
 Carcinogenicity
 No known significant effects or critical hazards.
 Mutagenicity
 No known significant effects or critical hazards.
 Teratogenicity
 No known significant effects or critical hazards.
 Developmental effects
 No known significant effects or critical hazards.
 Fertility effects
 No known significant effects or critical hazards.

Target organs : Not available.

#### 2. Hazards identification

#### Over-exposure signs/symptoms

Inhalation: Not determined.Ingestion: Not determined.

Skin : Adverse symptoms may include the following:

irritation redness

**Eyes** : Adverse symptoms may include the following:

irritation watering redness

Medical conditions aggravated by over-

: None known.

exposure

See toxicological information (Section 11)

# 3. Composition/information on ingredients

| Name             | CAS number | %     |
|------------------|------------|-------|
| propane-1,2-diol | 57-55-6    | 1 - 5 |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

#### 4. First aid measures

**Eye contact**: Check for and remove any contact lenses. In case of contact with eyes, rinse immediately with plenty of water. Get medical attention.

Skin contact : In case of contact, immediately flush skin with plenty of water. Get medical attention if

irritation develops. Wash clothing before reuse. Get medical attention if irritation

develops.

Inhalation : Move exposed person to fresh air. If not breathing, if breathing is irregular or if

respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention

immediately.

Ingestion : Wash out mouth with water. Do not induce vomiting unless directed to do so by medical

personnel. Never give anything by mouth to an unconscious person. Get medical

attention immediately.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It may

be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Notes to physician : No specific treatment. Treat symptomatically. Contact poison treatment specialist

immediately if large quantities have been ingested or inhaled.

### 5. Fire-fighting measures

Extinguishing modia

Flammability of the product : In a fire or if heated, a pressure increase will occur and the container may burst.

**Extinguishing media** 

: Use an extinguishing agent suitable for the surrounding fire.

Not suitable

Suitable

: None known.

**Special exposure hazards** 

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

### 5. Fire-fighting measures

**Hazardous thermal** decomposition products : Decomposition products may include the following materials: carbon dioxide

carbon monoxide sulfur oxides metal oxide/oxides

**Special protective** equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Special remarks on fire

: Not available.

hazards

: Not available.

Special remarks on explosion hazards

#### 6. Accidental release measures

**Personal precautions** 

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

**Environmental precautions** 

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### Methods for cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# 7. Handling and storage

**Handling** 

: Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Storage** 

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

### 8. Exposure controls/personal protection

| Occupational exposure limits |                              | TWA (8 hours) |                 | STEL (15 mins) |             | Ceiling |             |             |             |       |            |
|------------------------------|------------------------------|---------------|-----------------|----------------|-------------|---------|-------------|-------------|-------------|-------|------------|
| Ingredient                   | List name                    | ppm           | mg/m³           | Other          | ppm         | mg/m³   | Other       | ppm         | mg/m³       | Other | Notations  |
| , , , , ,                    | ON 1/2013<br>US AIHA 10/2011 | -<br>50<br>-  | 10<br>155<br>10 | -              | -<br>-<br>- | -       | -<br>-<br>- | -<br>-<br>- | -<br>-<br>- |       | [a]<br>[b] |

Form: [a]Aerosol only. [b]Vapour and aerosol.

#### Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

**Engineering measures** 

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### **Personal protection**

Respiratory

: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

**Hands** 

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

**Eyes** 

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

Skin

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Environmental exposure** controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Other protection Personal protective equipment (Pictograms) Not available.Not available.

### 9. Physical and chemical properties

Physical state : Liquid.

Flash point : Closed cup: Not applicable. [Product does not sustain combustion.]

Burning time : Not applicable.

Burning rate : Not applicable.

Auto-ignition temperature : Not available.

Flammable limits : Not available.

Color : Clear. Purple.

### 9. Physical and chemical properties

: Odorless. Odor

**Taste** : Not available. **Molecular weight** Not applicable. Molecular formula : Not applicable.

pH : 10 to 10.5 **Boiling/condensation point** : Not available. **Melting/freezing point** : Not available. **Critical temperature** : Not available.

**Relative density** : 1.0226 Vapor pressure : Not available. Vapor density : Not available. Volatility : Not available. **Odor threshold** : Not available. **Evaporation rate** : Not available. **SADT** Not available. : Not available. **Viscosity lonicity (in water)** : Not available.

**Dispersibility properties** : Easily dispersible in the following materials: cold water and hot water. **Solubility** : Easily soluble in the following materials: cold water and hot water.

Physical/chemical : Not available.

properties comments

### 10. Stability and reactivity

**Chemical stability** : The product is stable. **Conditions to avoid** : No specific data. **Incompatible materials** : No specific data.

**Hazardous decomposition** 

products

: Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

**Possibility of hazardous** 

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

### 11. Toxicological information

#### **Acute toxicity**

| Product/ingredient name | Result | Species | Dose                   | Exposure |
|-------------------------|--------|---------|------------------------|----------|
| propane-1,2-diol        |        |         | 20800 mg/kg<br>20 g/kg | -        |

Conclusion/Summary

: Not available.

**Chronic toxicity** Not available.

**Conclusion/Summary** 

: Not available.

**Irritation/Corrosion** 

# 11. Toxicological information

| Product/ingredient name | Result                   | Species | Score | Exposure                                 | Observation |
|-------------------------|--------------------------|---------|-------|--|-------------|
| propane-1,2-diol        | Eyes - Mild irritant     | Rabbit  | _     | 24 hours 500 milligrams                  | -           |
|                         | Eyes - Mild irritant     | Rabbit  | _     | 100<br>milligrams                        | -           |
|                         | Skin - Moderate irritant | Child   | -     | 96 hours 30<br>Percent<br>continuous     | -           |
|                         | Skin - Mild irritant     | Human   | -     | 168 hours<br>500                         | -           |
|                         | Skin - Moderate irritant | Human   | -     | milligrams<br>72 hours 104<br>milligrams | -           |
|                         | Skin - Mild irritant     | Woman   | -     | Intermittent<br>96 hours 30<br>Percent   | -           |

**Conclusion/Summary** 

: Not available.

**Sensitizer** 

Not available.

**Conclusion/Summary** 

: Not available.

**Carcinogenicity** 

Not available.

**Conclusion/Summary** 

: Not available.

**Classification** 

Not available.

**Mutagenicity** 

Not available.

**Conclusion/Summary** 

: Not available.

**Teratogenicity** 

Not available.

**Conclusion/Summary** 

,

**Reproductive toxicity** 

Not available.

: Not available.

Conclusion/Summary : Not available.

Synergistic products : Not available.

# 12. Ecological information

**Ecotoxicity** : No known significant effects or critical hazards.

#### **Aquatic ecotoxicity**

| Product/ingredient name | Result   | Species  | Exposure             |
|-------------------------|--|--|----------------------|
| propane-1,2-diol        | Acute EC50 >110 ppm Fresh water<br>Acute LC50 1020000 μg/l Fresh water | Daphnia - Daphnia magna<br>Crustaceans - Ceriodaphnia<br>dubia | 48 hours<br>48 hours |
|                         | Acute LC50 710000 μg/l Fresh water                                     | Fish - Pimephales promelas                                     | 96 hours             |

**Conclusion/Summary** 

: Not available.

Persistence/degradability

### 12. Ecological information

Not available.

**Conclusion/Summary** Partition coefficient: n-

**Bioconcentration factor** 

octanol/water

: Not available. : Not available.

: Not available. : Not available.

: Not available.

**Mobility Toxicity of the products of** 

biodegradation

Other adverse effects

: No known significant effects or critical hazards.

### 13. Disposal considerations

Waste disposal

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**Waste stream** : Not available. **RCRA** classification : Not available.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

### 14. Transport information

| Regulatory information   | UN number      | Proper shipping name | Classes | PG* | Label | Additional information |
|--------------------------|----------------|----------------------|---------|-----|-------|------------------------|
| DOT Classification       | Not regulated. | -                    | -       | -   |       | -                      |
| TDG Classification       | Not regulated. | -                    | -       | ı   |       | -                      |
| Mexico<br>Classification | Not regulated. | -                    | -       | -   |       | -                      |
| ADR/RID Class            | Not regulated. | -                    | -       | _   |       | -                      |
| IMDG Class               | Not regulated. | -                    | -       | _   |       | -                      |
| IATA-DGR Class           | Not regulated. | -                    | -       | _   |       | -                      |

PG\*: Packing group

# 15. Regulatory information

**United States inventory** 

(TSCA 8b)

Not determined.

WHMIS (Canada) : Not controlled under WHMIS (Canada).

**Canadian lists** 

**Canadian NPRI** : None of the components are listed. **CEPA Toxic substances** : None of the components are listed.

Canada inventory : Not determined.

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

#### International regulations

International lists

: Australia inventory (AICS): Not determined. China inventory (IECSC): Not determined.

Japan inventory: Not determined. Korea inventory: Not determined.

Malaysia Inventory (EHS Register): Not determined.

New Zealand Inventory of Chemicals (NZIoC): Not determined.

Philippines inventory (PICCS): Not determined. Taiwan inventory (CSNN): Not determined.

**Chemical Weapons Convention List Schedule** 

**I Chemicals** 

: Not listed

**Chemical Weapons** 

**Convention List Schedule** 

II Chemicals

**Chemical Weapons Convention List Schedule** 

**III Chemicals** 

: Not listed

: Not listed

### 16. Other information

Label requirements

: MAY CAUSE EYE AND SKIN IRRITATION.

**Hazardous Material** 

Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

: Not available. References : Not available. Other special

considerations

: 4/1/2015. **Date of printing** : 4/1/2015. **Date of issue** : 2/10/2015. **Date of previous issue** 

#### 16. Other information

Version : 1

Prepared by : Not available.

✓ Indicates information that has changed from previously issued version.

#### **Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.