SAFETY DATA SHEET

1. Identification

Product identifier AMCO CLEAR® TURBIDITY STANDARD, 0.0 NTU
Other means of identification Product code YSI 608000, (6080)
Recommended use Reagent for determination of turbidity of liquids.
Recommended restrictions None known.
Manufacturer/Importer/Supplier/Distributor information

Company name GFS Chemicals, Inc.
Address P.O. Box 245
Powell
OH
43065
US
Telephone Phone 740-881-5501
Toll Free 800-858-9682
Fax 740-881-5989
Website www.gfschemicals.com
E-mail service@gfschemicals.com
Emergency phone number Emergency Assistance Chemtrec 800-424-9300

2. Hazard(s) identification

Physical hazards Not classified.
Health hazards Not classified.
OSHA hazard(s) Not classified.

No hazards resulting from the material as supplied.

Label elements

Hazard symbol No symbol.
Signal word Not available.
Hazard statement Not available.
Precautionary statement

Prevention Not available.
Response Not available.
Storage Not available.
Disposal Not available.

Hazard(s) not otherwise classified (HNOC) Not classified.

3. Composition/information on ingredients

Mixtures

Non-hazardous components

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>WATER</td>
<td>7732-18-5</td>
<td>&gt;99.9</td>
</tr>
</tbody>
</table>

Other components below reportable levels 0.01082

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact Dry skin with paper towel or similar.
Eye contact Rinse with water. Get medical attention if irritation develops and persists.
Ingestion Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed
Indication of immediate medical attention and special treatment needed

Not available.
Treat symptomatically.

5. Fire-fighting measures
Suitable extinguishing media
Use extinguishing agent suitable for type of surrounding fire. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing media
Not available.

Specific hazards arising from the chemical
Not applicable.

Special protective equipment and precautions for firefighters
Wear suitable protective equipment.

6. Accidental release measures
Personal precautions, protective equipment and emergency procedures
No special precautions.

Methods and materials for containment and cleaning up
Containment of this material should not be necessary. This product is miscible in water. Flush with water.

Never return spills in original containers for re-use. For waste disposal, see section 13 of the MSDS.

Environmental precautions
No special environmental precautions required.

7. Handling and storage
Precautions for safe handling
No special precautions required.

Conditions for safe storage, including any incompatibilities
Do not allow material to freeze.

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
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
Not normally needed.

Skin protection
Hand protection
Not normally needed.

Other
Normal work clothing (long sleeved shirts and long pants) is recommended.

Respiratory protection
No personal respiratory protective equipment normally required.

Thermal hazards
Not available.

General hygiene considerations
Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Appearance
Clear.

Physical state
Liquid.

Form
Liquid.

Color
Colorless.

Odor
Odorless.

Odor threshold
Not available.

pH
6.7

Melting point/freezing point
32 °F (0 °C) estimated
**Initial boiling point and boiling range**
212 °F (100 °C) Approximately

**Flash point**
Not available.

**Evaporation rate**
Not available.

**Flammability (solid, gas)**
Not applicable.

**Upper/lower flammability or explosive limits**
- Flammability limit - lower (%)
  Not available.
- Flammability limit - upper (%)
  Not available.
- Explosive limit - lower (%)
  Not available.
- Explosive limit - upper (%)
  Not available.

**Vapor pressure**
0.000011 hPa estimated

**Vapor density**
Not available.

**Relative density**
Not available.

**Partition coefficient (n-octanol/water)**
Not available.

**Auto-ignition temperature**
Not available.

**Decomposition temperature**
Not available.

**Viscosity**
Not available.

**Other information**
- **Density**
  1.00 g/cm³ estimated
- **Percent volatile**
  100 %
- **Specific gravity**
  1.00 estimated

**10. Stability and reactivity**

**Reactivity**
Not available.

**Chemical stability**
Material is stable under normal conditions.

**Possibility of hazardous reactions**
Hazardous polymerization does not occur.

**Conditions to avoid**
Do not freeze.

**Incompatible materials**
None known.

**Hazardous decomposition products**
No hazardous decomposition products are known.

**11. Toxicological information**

**Information on likely routes of exposure**
- **Ingestion**
  Based on available data, the classification criteria are not met.
- **Inhalation**
  Due to lack of data the classification is not possible.
- **Skin contact**
  Due to lack of data the classification is not possible.
- **Eye contact**
  Due to lack of data the classification is not possible.

**Symptoms related to the physical, chemical and toxicological characteristics**
Not available.

**Information on toxicological effects**

**Acute toxicity**

<table>
<thead>
<tr>
<th>Product</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dermal</td>
<td>Rabbit</td>
<td>99999 mg/kg</td>
</tr>
<tr>
<td>LD50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td>Bird</td>
<td>99999 mg/kg</td>
</tr>
<tr>
<td>LD50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product</td>
<td>Species</td>
<td>Test Results</td>
</tr>
<tr>
<td>---------</td>
<td>---------</td>
<td>--------------</td>
</tr>
<tr>
<td>Product</td>
<td>Mouse</td>
<td>99999 mg/kg</td>
</tr>
<tr>
<td>Product</td>
<td>Rat</td>
<td>99999 mg/kg</td>
</tr>
<tr>
<td>TD</td>
<td>Rat</td>
<td>99999 mg/kg</td>
</tr>
<tr>
<td>TDLO</td>
<td>Rat</td>
<td>99999 mg/kg</td>
</tr>
</tbody>
</table>

* Estimates for product may be based on additional component data not shown.

**Skin corrosion/irritation**
Due to lack of data the classification is not possible.

**Serious eye damage/eye irritation**
Due to lack of data the classification is not possible.

**Respiratory sensitization**
Due to lack of data the classification is not possible.

**Skin sensitization**
Due to lack of data the classification is not possible.

**Germ cell mutagenicity**
Due to lack of data the classification is not possible.

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

**Reproductive toxicity**
Due to lack of data the classification is not possible.

**Specific target organ toxicity**
- single exposure
Due to lack of data the classification is not possible.
- repeated exposure
Due to lack of data the classification is not possible.

**Aspiration hazard**
Due to lack of data the classification is not possible.

**Chronic effects**
Prolonged inhalation may be harmful.

**Further information**
This product has no known adverse effect on human health.

12. Ecological information

**Ecotoxicity**
Contains a substance which causes risk of hazardous effects to the environment. Not applicable.

<table>
<thead>
<tr>
<th>Product</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMCO CLEAR® TURBIDITY STANDARD, 0.0 NTU (CAS Mixture)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Crustacea</td>
<td>34905.6602 mg/l, 48 hours, estimated</td>
</tr>
<tr>
<td></td>
<td>Fish</td>
<td>21604.9727 mg/l, 96 hours, estimated</td>
</tr>
</tbody>
</table>

* Estimates for product may be based on additional component data not shown.

**Persistence and degradability**
No data is available on the degradability of this product.

**Bioaccumulative potential**
Not available.

**Mobility in soil**
Not available.

**Other adverse effects**
Not available.

13. Disposal considerations

**Disposal instructions**
Wash to drains with lots of water. Dispose in accordance with all applicable regulations.

**Local disposal regulations**
Not available.

**Hazardous waste code**
Not regulated.

**Waste from residues / unused products**
Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging**
Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

**DOT**
Not regulated as a hazardous material by DOT.

**IATA**
Not regulated as a dangerous good.

**IMDG**
Not regulated as a dangerous good.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**
No information available.
15. Regulatory information

US federal regulations

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not on regulatory list.

CERCLA Hazardous Substance List (40 CFR 302.4)
Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

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

SARA 302 Extremely hazardous substance
No

SARA 311/312 Hazardous chemical
No

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.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number
Not listed.

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))
Not regulated.

DEA Exempt Chemical Mixtures Code Number
Not regulated.

Food and Drug Administration (FDA)
Not regulated.

US state regulations

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

US. Massachusetts RTK - Substance List
Not regulated.

US. New Jersey Worker and Community Right-to-Know Act
Not regulated.

US. Pennsylvania RTK - Hazardous Substances
Not regulated.

US. Rhode Island RTK
Not regulated.

US. California Proposition 65

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance
Not listed.

International Inventories

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>No</td>
</tr>
<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European Inventory of Existing Commercial Chemical Substances (EINECS)</td>
<td>No</td>
</tr>
<tr>
<td>Europe</td>
<td>European List of Notified Chemical Substances (ELINCS)</td>
<td>No</td>
</tr>
<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Country(s) or region</td>
<td>Inventory name</td>
<td>On inventory (yes/no)</td>
</tr>
<tr>
<td>------------------------------</td>
<td>----------------------------------------------------------</td>
<td>-----------------------</td>
</tr>
<tr>
<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
<td>Yes</td>
</tr>
<tr>
<td>New Zealand</td>
<td>New Zealand Inventory</td>
<td>Yes</td>
</tr>
<tr>
<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances (PICCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*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**: August-12-2013
- **Version #**: 01
- **Further information**: Not available.
- **Disclaimer**: The information in the sheet was written based on the best knowledge and experience currently available. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

- **Revision Information**: Product and Company Identification: Synonyms
  Composition / Information on Ingredients: Ingredients
  Physical & Chemical Properties: Multiple Properties