# GF5 CHEMICALS

# **SAFETY DATA SHEET**

## 1. Identification

Product identifier IN-SPEC® VISIBLE STANDARD 4.0, PHOTOMETRIC ACCURACY REFERENCE STANDARD

Other means of identification

Product code 8316

**Recommended use** Laboratory reference solution.

**Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

**Manufacturer** 

**Company name**Address
P.O. Box 245
Powell, OH 43065

**United States** 

**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** Emergency Assistance Chemtrec 800-424-9300

number

# 2. Hazard(s) identification

Physical hazards Not classified.
Health hazards Not classified.
Environmental hazards Not classified.
OSHA defined hazards Not classified.

**Label elements** 

Hazard symbol None.
Signal word None.

**Hazard statement** The mixture does not meet the criteria for classification.

**Precautionary statement** 

**Prevention** Observe good industrial hygiene practices.

**Response** Wash hands after handling.

**Storage** Store away from incompatible materials.

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

Hazard(s) not otherwise

classified (HNOC)

None known.

**Supplemental information** None.

# 3. Composition/information on ingredients

# **Mixtures**

| Chemical name                             | Common name and synonyms | <b>CAS number</b> | %        |
|---|--------------------------|-------------------|----------|
| WATER                                     |                          | 7732-18-5         | 90 - 100 |
| STYRENE DIVINYLBENZENE<br>COPOLYMER BEADS |                          | 9003-70-7         | <0.1     |
| Other components below reportable le      | evels                    |                   | < 0.1    |

<sup>\*</sup>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 Rinse mouth. Get medical attention if symptoms occur.

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Most important

symptoms/effects, acute and

delayed

**Indication of immediate** medical attention and special

treatment needed

Treat symptomatically.

**General information** Ensure that medical personnel are aware of the material(s) involved, and take precautions to

Direct contact with eyes may cause temporary irritation.

protect themselves.

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

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment

and precautions for firefighters

Fire fighting

equipment/instructions

Move containers from fire area if you can do so without risk.

**Specific methods** Use standard firefighting procedures and consider the hazards of other involved materials.

**General fire hazards** No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

No special precautions.

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

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

water.

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

**Environmental precautions** No special environmental precautions required.

7. Handling and storage

Precautions for safe handling Avoid prolonged exposure. No special precautions required.

Conditions for safe storage,

including any incompatibilities Store in original tightly closed container. Do not allow material to freeze. Store away from

incompatible materials (see Section 10 of the SDS).

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

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** Not normally needed.

Other Wear suitable protective clothing.

Respiratory protection No personal respiratory protective equipment normally required. Thermal hazards Wear appropriate thermal protective clothing, when necessary.

**General hygiene** considerations

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

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

remove contaminants.

9. Physical and chemical properties

**Appearance** Cloudy. **Physical state** Liquid.

> **Form** Aqueous solution.

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Odor Odorless.
Odor threshold Not available.

**pH** 6.7

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

boiling range

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not available.

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 pressureNot available.Vapor densityNot available.Relative densityNot available.

Solubility(ies)

**Solubility (water)**Completely Miscible **Partition coefficient**Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

Other information

**Density** 1.00 g/cm3 estimated

Percent volatile > 99.9 %

Specific gravity 1.00 estimated

#### 10. Stability and reactivity

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

**Chemical stability**Material is stable under normal conditions. **Possibility of hazardous**Hazardous polymerization does not occur.

reactions

**Conditions to avoid**Contact with incompatible materials. Do not freeze.

**Incompatible materials** Strong oxidizing agents.

**Hazardous decomposition** 

products

No hazardous decomposition products are known.

# 11. Toxicological information

## Information on likely routes of exposure

**Inhalation** Prolonged inhalation may be harmful.

**Skin contact**No adverse effects due to skin contact are expected. **Eye contact**Direct contact with eyes may cause temporary irritation.

**Ingestion** Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

**Acute toxicity** 

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**Product Species Test Results** 

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**Acute** 

Dermal

Rabbit LD50 99999 mg/kg

Oral

LD50 Bird 99999 mg/kg

> 99999 mg/kg Mouse 99999 mg/kg Rat

TD 99999 ma/ka Rat TDL0 Rat 99999 mg/kg

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation. Serious eye damage/eye Direct contact with eyes may cause temporary irritation.

irritation

Respiratory or skin sensitization

**Respiratory sensitization** Not available.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

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

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity

- single exposure

Not classified.

Specific target organ toxicity

- repeated exposure

Not classified.

Not available. **Aspiration hazard** 

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

# 12. Ecological information

**Ecotoxicity** Not applicable.

Product **Species Test Results** IN-SPEC® VISIBLE STANDARD 4.0, PHOTOMETRIC ACCURACY REFERENCE STANDARD (CAS Mixture)

**Aquatic** 

EC50 37000 mg/l, 48 hours estimated Crustacea Daphnia Fish LC50 Fish 22840.0156 mg/l, 96 hours estimated

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

**Bioaccumulative potential** No data available. Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

#### 13. Disposal considerations

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

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

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

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

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

emptied.

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

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## 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 established.

Annex II of MARPOL 73/78

and the IBC Code

# 15. Regulatory information

**US federal regulations** All components are on the U.S. EPA TSCA Inventory List.

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazarc

Communication Standard, 29 CFR 1910.1200.

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

Not regulated.

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

Not listed.

## SARA 304 Emergency release notification

Not regulated.

#### 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

Not listed.

**SARA 311/312** No

**Hazardous chemical** 

SARA 313 (TRI reporting)

Not regulated.

#### 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. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed

#### **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**

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.

## **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                    |

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| Country(s) or region        | Inventory name   | On inventory (yes/no)* |
|-----------------------------|--|------------------------|
| 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) | No                     |
| 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                    |
|                             |  |                        |

<sup>\*</sup>A "Yes" indicates that all components of this product comply 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** April-10-2015

Version # 01

**Disclaimer**GFS Chemicals cannot anticipate all conditions under which this information and its product, or the

products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the

sheet was written based on the best knowledge and experience currently available.

**Revision Information** Product and Company Identification: Product Codes