



1. IDENTIFICATION

Product Identifier

Product Name BCS 4231

Other means of identification

SDS# BCS-042

Recommended use of the chemical and restrictions on use

Recommended Use For industrial use.

Details of the supplier of the SDS

Supplier Address

Bulk Chemical Services, LLC
726 Industrial Drive
Sandersville, GA 31082

Emergency Telephone Number

Company Phone Number (404) 350-8404
Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

GHS Classification

This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

Appearance Colorless to pale yellow **Physical State** Liquid **Odor** Slight

Other hazards Spills produce extremely slippery surfaces

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances Not applicable, this product is not a substance

Mixtures

Hazardous components Contains no reportable hazardous substances

4. FIRST AID MEASURES

Inhalation No hazards which require special first aid measures. Move to fresh air.

Skin Contact	Wash off with plenty of water. If irritation persists, seek medical attention.
Eye Contact	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Ingestion	DO NOT induce vomiting unless directed to do so by medical personnel. Get medical attention.

Most important symptoms and effects

None under normal use

Indication of any immediate medical attention and special treatment needed

None reasonably foreseeable

5. FIRE FIGHTING MEASURES

Suitable extinguishing media

Water spray. Foam. Carbon dioxide (CO2). Dry powder.

Specific hazards arising from the chemical

Non-combustible. Non-hazardous until completely dry and ignited.

Hazardous Combustion Products Fumes produced when heated to decomposition may include oxides of carbon and nitrogen.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Use personal protection recommended in Section 8. Danger of slipping after spill or leakage. Spilling onto the container's outside will make container slippery. Use care to avoid falling.

Methods for Containment

Prevent further leakage or spillage if safe to do so. Dike spill and prevent spill from entering sewers and waterways.

Methods for Cleaning Up

Do not flush with water. Take up with sand, earth, or other non-combustible absorbent material. Transfer liquid and solid material into suitable containers in accordance with local, state, and federal regulations for disposal. After cleaning, flush away traces with water.

7. HANDLING AND STORAGE

Handling

Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. Avoid contact with skin and eyes. Avoid spillage, which can cause very slippery conditions on floors.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool, and well-ventilated place (0 – 35°C). Keep away from heat and sources of ignition. Freezing will affect the physical condition and may damage the material.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering Controls Ensure adequate ventilation, local exhaust if misting occurs.

Individual protection measures, such as personal protective equipment

Eye/Face protection Splash proof chemical safety goggles.

Skin/Body protection Where contact is likely, wear PVC or other plastic material gloves, a chemical apron or suit.

Respiratory protection Under normal conditions, respirator is not normally required

General Hygiene Considerations Wash hands before breaks and at the end of workday. Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid
Appearance	Colorless to pale yellow liquid
Color	Colorless to pale yellow
pH	2.0 – 6.0
Specific Gravity	1.3 (Water = 1)
Melting point/range	n/a
Flash point	n/a
Freezing point	0°C
Auto-ignition temperature	n/a
Viscosity	See Technical Data Sheet
LogPow	0

10. STABILITY AND REACTIVITY

Reactivity Not reactive under normal conditions.

Stability Stable

Possibility of hazardous reactions None under normal processing

Conditions to avoid Protect from frost, heat, and sunlight

Materials to avoid None known.

Hazardous decomposition products

In case of fire, oxides of carbon may form.

11. TOXICOLOGICAL INFORMATION

Information on the product as supplied

Acute oral toxicity	LD50/oral/rat > 5000 mg/kg (Estimated)
Acute dermal toxicity	LD50/dermal/rat > 5000 mg/kg (Estimated)
Acute inhalation toxicity	Testing by the inhalation route is inappropriate because exposure of humans via inhalation is unlikely: the substance has no vapor pressure and there is practically no exposure to inhalable aerosols.
Skin corrosion/irritation	By analogy with similar products, this product is not expected to be irritating
Serious eye damage/eye irritation	By analogy with similar products, this product is not expected to be irritating
Respiratory/skin sensitization	By analogy with similar products, this product is not expected to be sensitizing
Mutagenicity	By analogy with similar products, this product is not expected to be mutagenic
Carcinogenicity	By analogy with similar products, this product is not expected to be carcinogenic
Reproductive toxicity	By analogy with similar products, this product is not expected to be toxic for reproduction
STOT – single exposure	No known effects
STOT – repeated exposure	No known effects
Aspiration hazard	No hazards resulting from the material as supplied.

12. ECOLOGICAL INFORMATION

Information on the product as supplied

Acute toxicity to fish	LC50/Fish/96 hours > 100 mg/L (Estimated)
Acute toxicity to invertebrates	LC50/Daphnia/48 hours > 100 mg/L (Estimated)
Acute toxicity to algae	IC50/Algae/72 hours > 100 mg/L (Estimated)
Chronic toxicity to fish	No data available
Chronic toxicity to invertebrates	No data available
Toxicity to microorganisms	No data available
Effects on terrestrial organisms	No data available
Sediment toxicity	No data available

Persistence and degradability

Degradation	Not readily biodegradable
Hydrolysis	Does not hydrolyze
Bioaccumulation	This product is not expected to bioaccumulate.
Mobility	Not determined

13. DISPOSAL CONSIDERATIONS

Waste disposal	Disposal should be in accordance with applicable regional, national, and local laws and regulations. Can be landfilled or incinerated, when in compliance with local regulations.
Contaminated Packaging	Rinse empty containers with water and use the rinse-water to prepare the working solution. If recycling is not practicable, dispose of in compliance with local regulations.

14. TRANSPORTATION INFORMATION

DOT	Not regulated
IMDG	Not regulated
ICAO/IATA	Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA	Listed or exempt
DSL	Listed or exempt

Legend:

TSCA – United States Toxic Substances Control Act Section 8(b) Inventory
 DSL – Canadian Domestic Substances List

US Federal Regulations

SARA 311/312	Not concerned
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16. OTHER INFORMATION

NFPA	Health Hazards	Flammability	Instability
	0	0	0
HMIS	Health Hazards	Flammability	Physical Hazards
	0	0	0

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 Approved by: EH&S Department

All sections reformatted in accordance with OSHA Hazard Communication Standard 29 CFR 1910.1200 (GHS)

The information in this Safety Data Sheet should be provided to all who will use, handle, store, transport, or otherwise be exposed to this product. This information has been prepared for the guidance of plant engineering, operations and management and for persons working with or handling this product. Additionally, if this Safety Data Sheet is more than three years old, you should contact Bulk Chemical Services at the phone number listed below to make certain that this sheet is current.

Although the information and recommendations set forth herein (hereinafter "information") are presented in good faith and believed to be correct as of the date hereof, Bulk Chemical Services makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its safety and suitability for their purposes prior to use. In no event will Bulk Chemical Services be responsible for damages of any nature whatsoever resulting from the use of or reliance upon information. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE, ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH THE INFORMATION REFERS.

In an event of discrepancy between the contents of this SDS and the English version of it, the English version shall prevail.

Prepared by

EH&S DEPARTMENT
BULK CHEMICAL SERVICES, LLC
1355 Terrell Mill Road
Bldg 1460, Ste 150
Marietta, GA 30067 USA
Phone number: (404) 350-8404

End of safety data sheet