

SAFETY DATA SHEET

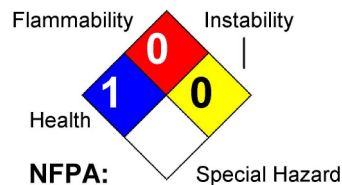
1. PRODUCT AND COMPANY IDENTIFICATION

Product Code: 210814
Product Name: GCS-3030
Company Name: Guardian CSC
6000 Susquehanna Plaza Drive
York, PA 17406
Emergency Contact: CHEMTREC (800)424-9300

2. HAZARDS IDENTIFICATION

GHS Signal Word:
GHS Hazard Phrases: No phrases apply.
GHS Precaution Phrases: No phrases apply.
GHS Response Phrases: No phrases apply.
GHS Storage and Disposal Phrases: No phrases apply.

Hazard Rating System:



Potential Health Effects (Acute and Chronic): Chronic: Chronic ingestion may cause central nervous system failure.

Inhalation: Inhalation of high concentrations may cause central nervous system effects characterized by nausea, headache, dizziness, unconsciousness and coma. May cause respiratory tract irritation. May be harmful if inhaled.

Skin Contact: May cause skin irritation. May be harmful if absorbed through the skin.

Eye Contact: Causes mild eye irritation.

Ingestion: May cause irritation of the digestive tract. Symptoms may include: headache, excitement, fatigue, nausea, vomiting, stupor, and coma. May be harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration
7647-15-6	Sodium bromide	38.8 -41.2 %

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4. FIRST AID MEASURES

Emergency and First Aid**Procedures:**

- In Case of Inhalation:** Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.
- In Case of Skin Contact:** Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
- In Case of Eye Contact:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.
- In Case of Ingestion:** Get medical aid immediately. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.
- Note to Physician:** Treat symptomatically and supportively.

5. FIRE FIGHTING MEASURES

- Flash Pt:** NA Method Used: Estimate
- Explosive Limits:** LEL: No data. UEL: No data.
- Autoignition Pt:** NA
- Suitable Extinguishing Media:** Use water spray, dry chemical, carbon dioxide, or appropriate foam.
- Fire Fighting Instructions:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.
- Flammable Properties and Hazards:** No data available.

6. ACCIDENTAL RELEASE MEASURES

- Steps To Be Taken In Case Material Is Released Or Spilled:** Absorb on sand or vermiculite and place in closed containers for disposal. Use proper personal protective equipment as indicated in Section 8. Avoid generating dusty conditions. Provide ventilation.

7. HANDLING AND STORAGE

- Precautions To Be Taken in Handling:** Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.
- Precautions To Be Taken in Storing:** Use with adequate ventilation. Store in a cool, dry place. Store in a tightly closed container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS #	Components (Chemical Name)	OSHA TWA	ACGIH TWA	Other Limits
7647-15-6	Sodium bromide	No data.	No data.	No data.

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Respiratory Equipment (Specify Type):	Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Eye Protection:	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Protective Gloves:	Wear appropriate gloves to prevent skin exposure.
Other Protective Clothing:	Wear appropriate protective clothing to minimize contact with skin.
Engineering Controls (Ventilation etc.):	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical States:	<input type="checkbox"/> Gas	<input checked="" type="checkbox"/> Liquid	<input type="checkbox"/> Solid
Appearance and Odor:	colorless. Odorless.		
Melting Point:	No data.		
Boiling Point:	No data.		
Autoignition Pt:	NA		
Flash Pt:	NA	Method Used: Estimate	
Explosive Limits:	LEL: No data.		UEL: No data.
Specific Gravity (Water = 1):	1.41+/-0.05		
Vapor Pressure (vs. Air or mm Hg):	No data.		
Vapor Density (vs. Air = 1):	No data.		
Evaporation Rate:	as of water (Ether=1)		
Solubility in Water:	100% soluble		
pH:	7.0+/-1.0		
Percent Volatile:	No data.		

10. STABILITY AND REACTIVITY

Stability:	Unstable <input type="checkbox"/>	Stable <input checked="" type="checkbox"/>
Conditions To Avoid - Instability:	Incompatible materials, heating to decomposition.	
Incompatibility - Materials To Avoid:	Strong acids, bromine trifluoride.	
Hazardous Decomposition Or Byproducts:	hydrogen bromide. sodium oxide. bromine fumes. Will occur <input type="checkbox"/> Will not occur <input checked="" type="checkbox"/>	
Possibility of Hazardous Reactions:	No data available.	
Conditions To Avoid - Hazardous Reactions:		

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11. TOXICOLOGICAL INFORMATION

Toxicological Information: Epidemiology: No information available.
Teratogenicity: No information available. Reproductive Effects: Adverse reproductive effects have occurred in experimental animals.
Mutagenicity: Neurotoxicity:
CAS# 7647-15-6:
Carcinogenicity/Other Information: Acute toxicity, LD50, Oral, Rat, 3500. MG/KG; Journal of Pharmacology and Experimental Therapeutics, Williams & Wilkins Co., 428 E. Preston St., Baltimore, MD 21202, Vol/p/yr: 55,200, 1935
CAS# 7647-15-6: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
7647-15-6	Sodium bromide	n.a.	n.a.	n.a.	n.a.

12. ECOLOGICAL INFORMATION

Results of PBT and vPvB assessment: No data available.
CAS# 7647-15-6:
LC50, Bluegill (*Lepomis macrochirus*), 1000. MG/L, 96 H, Mortality, Water temperature: 21.50 C (70.7 F) C, pH: 7.49, Hardness: 36.00 MG/L; The Acute Toxicity of Sodium Bromide to the Bluegill Sunfish *Lepomis macrochirus* Rafinesque with Attachments and Cover Letter Dated 033178, Union Carbide Corp., 1978

Effective concentration to 50% of test organisms., Water Flea (*Daphnia magna*), 5800000. UG/L, 24 H, Water temperature: 19.00 C (66.2 F) C; Study on the Toxicity of Sodium Bromide to Different Freshwater Organisms, Canton, J.H., P.W. Wester, and E.A.M. Mathijssen-Spiekman, 1983

Effective concentration to 50% of test organisms., Green Algae (*Scenedesmus pannonicus*), Exponential Growth Phase, 5800000. UG/L, 24 H, Population, Water temperature: 23.00 C (73.4 F) C; Study on the Toxicity of Sodium Bromide to Different Freshwater Organisms, Canton, J.H., P.W. Wester, and E.A.M. Mathijssen-Spiekman, 1983

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.
RCRA P-Series: None listed.
RCRA U-Series: None listed.

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14. TRANSPORT INFORMATION

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Not Regulated.

DOT Hazard Class:

UN/NA Number:

LAND TRANSPORT (Canadian TDG):

TDG Shipping Name: Not Regulated.

UN Number:

Hazard Class:

TDG Classification:

MARINE TRANSPORT (IMDG/IMO):

IMDG/IMO Shipping Name: Not Regulated.

AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Not Regulated.

15. REGULATORY INFORMATION

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
7647-15-6	Sodium bromide	No	No	No

CAS #	Hazardous Components (Chemical Name)	Canadian NPRI	Canadian IDL	Canadian DSL
7647-15-6	Sodium bromide	No	Yes	Yes

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
7647-15-6	Sodium bromide	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No

CAS #	Hazardous Components (Chemical Name)	International Regulatory Lists
7647-15-6	Sodium bromide	

Canadian WHMIS Classification:

No data available.

Regulatory Information: Primary EPA Registration # : 88714-3
This product is subject to registration under FIFRA.
All ingredients are reported in the EPA TSCA Inventory.

16. OTHER INFORMATION

Revision Date: 09/04/2014**Additional Information About This Product:** No data available.**Company Policy or****Disclaimer:**

The information accumulated herein is believed to be accurate based on the information provided, although no guarantee or warranty, either expressed or implied is made as to the accuracy or completeness of this information, whether originating with this company or not. Recipients are advised to confirm in advance of need that the information is correct, applicable and suitable to their circumstances. The conditions or methods of handling, storage, use and disposal of the product and container are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage or use of this information or product. If

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the product is used as a component in another product, this information may not be applicable.