

# SAFETY DATA SHEET

## SANIBROM® 40 Biocide

Preparation Date : 29-May-2008

Revision Date: 28-Oct-2014

Revision Number: 1

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product Identifier****Product Name** SANIBROM® 40 Biocide**Other means of identification****Chemical Family** Metal Bromide**CAS-No** Mixture**Formula** NaBr/H<sub>2</sub>O**Recommended use of the chemical and restrictions on use****General function** Water treatment chemical.**Uses advised against** No information available**Details of the supplier of the safety data sheet****Company** Albemarle Corporation  
451 Florida Street  
Baton Rouge, LA 70801**For Non-Emergency** 800-535-3030**'Competent Body for SDS'** HSE@Albemarle.com**Emergency telephone number****Emergency Telephone Numbers** +1-225-344-7147

### 2. HAZARDS IDENTIFICATION

**Classification****OSHA Regulatory Status**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122)

**Label elements****Emergency Overview**

The product contains no substances which at their given concentration, are considered to be hazardous to health

**Appearance** Liquid**Color** Clear. Light yellow to water white.**Odor** Mild.**Prevention**

Wash hands thoroughly after handling

**Response**

Get medical advice/attention if you feel unwell

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

IF ON SKIN: Wash with plenty of soap and water

IF INHALED: Move to fresh air.

IF SWALLOWED: Rinse mouth Drink plenty of water

**Hazards not otherwise classified (HNOC)**  
**Other Information**

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Component	CAS-No	Weight %
Sodium bromide	7647-15-6	38-42

Note: The exact concentrations of the above listed chemicals are being withheld as a trade secret.

**4. FIRST AID MEASURES**

**First aid measures**

- Eye contact** If in eyes, hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
- Skin Contact** If on skin or clothing, take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
- Inhalation** Move to fresh air.
- Ingestion** IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** No information available.

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician** Treat symptomatically.

**5. FIRE-FIGHTING MEASURES**

**Extinguishing media**

**Suitable extinguishing media** Not combustible. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media** No information available.

**Specific Hazards Arising from the Chemical**

**Combustion/explosion hazards** Not combustible.

**Hazardous Combustion Products** Bromine.

**Explosion Data**

**Sensitivity to mechanical impact** None.

**Sensitivity to static discharge** None.

**Protective Equipment and Precautions for Firefighters**

In the event of fire and/or explosion do not breathe fumes. Wear self contained breathing apparatus for fire fighting if necessary.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Avoid contact with skin, eyes and clothing. Wear suitable protective equipment.

**Environmental Precautions**

**Environmental precautions** Prevent further leakage or spillage if safe to do so.

**Methods and material for containment and cleaning up**

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for Cleaning up** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Take up small spills with dry chemical absorbent. Large spills may be taken up with pump or vacuum and finished off with dry chemical absorbent. Large spills should be collected mechanically (remove by pumping) for disposal. May require excavation of contaminated soil.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin and eyes.

**Conditions for safe storage, including any incompatibilities**

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible Materials** None known based on information supplied.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

**Exposure Guidelines**

**Appropriate engineering controls**

**Engineering Controls** Ensure adequate ventilation.

**Individual protection measures, such as personal protective equipment**

**Eye/face Protection** Chemical goggles or safety glasses.

**Skin Protection** Wear protective gloves/clothing.

**Respiratory protection** None under normal conditions.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

<b>Appearance</b>	Liquid
<b>Color</b>	Clear. Light yellow to water white.
<b>Odor</b>	Mild.
<b>Odor Threshold</b>	No information available
<b>Molecular Weight</b>	No information available
<b>pH</b>	Not available
<b>Melting point/freezing point</b>	No information available
<b>Boiling Point/Range</b>	~ 112 °C / 234 °F
<b>Flash Point</b>	Non flammable.
<b>Evaporation Rate</b>	No information available
<b>Flammability (solid, gas)</b>	No information available
<b>Flammability Limit in Air</b>	
<b>Upper flammability limit:</b>	No information available
<b>Lower flammability limit:</b>	No information available
<b>Vapor Pressure</b>	2333.135 (20°C for aqueous portion)

<b>Vapor Density</b>	No information available
<b>Relative density</b>	1.41 (21°C)
<b>Solubility(ies)</b>	
<b>Water Solubility</b>	Miscible.
<b>Solubility in other solvents</b>	No information available
<b>Partition coefficient</b>	
<b>Autoignition temperature</b>	No information available
<b>Decomposition temperature</b>	No information available
<b>Viscosity, kinematic</b>	No information available
<b>Dynamic viscosity</b>	2 cP (21°C)
<b>Explosive Properties</b>	No information available
<b>Oxidizing Properties</b>	No information available

**10. STABILITY AND REACTIVITY**

<b>Reactivity Hazard</b>	No data available
<b>Stability</b>	Stable.
<b>Hazardous Reactions</b>	No hazardous reaction expected under normal handling.
<b>Hazardous Polymerization</b>	None under normal processing.
<b>Conditions to Avoid</b>	Avoid extremely high heat.
<b>Materials to avoid</b>	Avoid strong acids and oxidizing agents. Avoid contact with common metals such as aluminum, iron, copper, brass and steel.
<b>Hazardous decomposition products</b>	Bromine.

**11. TOXICOLOGICAL INFORMATION**

Information on likely routes of exposure

<b>Inhalation</b>	Not an expected route of exposure.
<b>Eye contact</b>	Not irritating.
<b>Skin Contact</b>	Not irritating.
<b>Ingestion</b>	Not expected to be acutely toxic.

Potential Health Effects

**Acute Effects**

**Skin corrosion/irritation** Not irritating.

**Serious eye damage/eye irritation** No eye irritation.

**Respiratory irritation :** Not irritating.

**Sensitization** Not a skin sensitizer.

Chronic Effects

**Mutagenic Effects** No information available.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	ACGIH Carcinogens	IARC	NTP	OSHA Carcinogens
Sodium bromide	7647-15-6	-	-	-	-

**Reproductive Effects** No information available.  
**STOT - single exposure** No information available.  
**STOT - repeated exposure** No information available.  
**Chronic Effects** None known  
**Aspiration hazard** No information available.

**Numerical measures of toxicity**

**Product Information** No information available

The following values are calculated based on chapter 3.1 of the GHS document .

**ATEmix (oral)** 8500 mg/kg  
**ATEmix (dermal)** 5002 mg/kg

**Component Information** No information available

Component	Rat Oral LD50 :	Rabbit Dermal LD50 :	Rat Inhalation LC50:
Sodium bromide 7647-15-6	4200 mg/kg bw	>2000 mg/kg bw	-

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Component	Freshwater Algae EC50/72h :	Freshwater Fish LC50/96h :	Water Flea EC50/48h :
Sodium bromide (CAS #: 7647-15-6)	440 mg/l	440 mg/l	1000 mg/l

**Persistence/Degradability** No information available.  
**Bioaccumulation/ Accumulation** No information available.  
**Mobility in Environmental Media** No information available.  
**Other adverse effects** No information available

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

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

**Contaminated Packaging** Do not reuse container.

**14. TRANSPORT INFORMATION**

**DOT**

Proper Shipping Name NOT REGULATED FOR TRANSPORTATION  
 Hazard Class Not regulated  
 UN No. Not regulated  
 Packing Group Not regulated  
 Description Not regulated

**IMDG/IMO**

IMO Class Not regulated  
 Packing Group Not regulated  
 UN-No Not regulated  
 IMO Labelling and Marking Not regulated  
 Proper Shipping Name Not regulated  
 EmS Not regulated  
 Marpol - Annex II Not regulated  
 Marpol - Annex III Not regulated  
 Transport Description Not regulated

**IATA/ICAO**

IATA/ICAO Class Not regulated  
 Packing Group Not regulated  
 UN-No Not regulated  
 IATA/ICAO Labelling/Marking Not regulated  
 Passenger Aircraft Not regulated  
 Cargo aircraft only Not regulated  
 Proper shipping name Not regulated  
 Transport Description Not regulated

<b>15. REGULATORY INFORMATION</b>											
International Inventories	TSCA	DSL	NDSL	AICS	EINECS	ELINCS	ENCS	KECL	PICCS	IECSC	NZIoC
SANIBROM® 40 Biocide	X	X	-	X	X	-	X	X	X	X	X

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazardous Categorization**

Acute Health Hazard No  
 Chronic Health Hazard No  
 Fire Hazard No  
 Sudden Release of Pressure Hazard No  
 Reactive Hazard No

**Reportable and Threshold Planning Quantities**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

**State Right-to-Know**

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

**WHMIS Hazards**

Non-controlled

**16. OTHER INFORMATION**

<b>NFPA</b>	Health 0	Flammability 0	Instability 0	Physical Hazards -
<b>HMIS</b>	Health 0	Flammability 0	Physical Hazards 0	

**Prepared By** Health & Environment Department  
Albemarle Corporation

FOR ADDITIONAL NONEMERGENCY PRODUCT INFORMATION, CONTACT:

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ALBEMARLE CORPORATION  
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BATON ROUGE, LA. 70801  
(800) 535-3030

**Preparation Date :** 29-May-2008

**Revision Date:** 28-Oct-2014

**Disclaimer:**

The information contained herein is accurate to the best of our knowledge. The Company makes no warranty of any kind, express or implied, concerning the safe use of this material in your process or in combination with other substances.

**End of Safety Data Sheet**