

# IC-BR-10M Bromide (10,000µg/mL in H2O)

**High-Purity Standards** 

Chemwatch Hazard Alert Code: 0

Catalogue number: IC-BR-10M Version No: 1.1 Issue Date: **08/22/2016** Print Date: **08/22/2016** 

Safety Data Sheet according to OSHA HazCom Standard (2012) requirements

Date: **08/22/2016** S GHS USA FN

#### **SECTION 1 IDENTIFICATION**

#### **Product Identifier**

Product name	IC-BR-10M Bromide (10,000µg/mL in H2O)
Synonyms	10,000μg/mL Bromide in H2O
Other means of identification	IC-BR-10M

#### Recommended use of the chemical and restrictions on use

Relevant identified uses	Use according to manufacturer's directions.

### Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Registered company name	High-Purity Standards
Address	PO Box 41727 SC 29423 United States
Telephone	843-767-7900
Fax	843-767-7906
Website	highpuritystandards.com
Email	Not Available

### **Emergency phone number**

Association / Organisation	INFOTRAC
Emergency telephone numbers	1-800-535-5053
Other emergency telephone numbers	1-352-323-3500

## **SECTION 2 HAZARD(S) IDENTIFICATION**

## Classification of the substance or mixture

Classification	Not Applicable
Classification	Not Applicable

### Label elements

GHS label elements	Not Applicable		
SIGNAL WORD	NOT APPLICABLE		

## Hazard statement(s)

Not Applicable

## Hazard(s) not otherwise specified

Not Applicable

#### Precautionary statement(s) Prevention

Not Applicable

## Precautionary statement(s) Response

Not Applicable

#### Precautionary statement(s) Storage

Not Applicable

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#### Precautionary statement(s) Disposal

Not Applicable

### **SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS**

#### Substances

See section below for composition of Mixtures

#### **Mixtures**

CAS No	%[weight]	Name
7647-15-6	1	sodium bromide
7732-18-5	balance	water

### **SECTION 4 FIRST-AID MEASURES**

### Description of first aid measures

Eye Contact  If this product comes in contact with eyes:  Wash out immediately with water.  If this product comes in contact with eyes:  Wash out immediately with water.  If irritation continues, seek medical attention.  Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.		
Skin Contact	If skin contact occurs:	
Inhalation  Inhalation  Inhalation  If fumes, aerosols or combustion products are inhaled remove from contaminated area.  Other measures are usually unnecessary.		
Ingestion	<ul> <li>Immediately give a glass of water.</li> <li>First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>	

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

See Section 11

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

Treat symptomatically.

## **SECTION 5 FIRE-FIGHTING MEASURES**

Fire Incompatibility

## Extinguishing media

▶ There is no restriction on the type of extinguisher which may be used

None known.

Use extinguishing media suitable for surrounding area.

## Special hazards arising from the substrate or mixture

Special protective equipm	ent and precautions for fire-fighters			
Fire Fighting  • Alert Fire Brigade and tell them location and nature of hazard.				
Fire/Explosion Hazard	► Non combustible.			

### **SECTION 6 ACCIDENTAL RELEASE MEASURES**

## Personal precautions, protective equipment and emergency procedures

May emit corrosive fumes.

See section 8

#### **Environmental precautions**

See section 12

### Methods and material for containment and cleaning up

Minor Spills	► Clean up all spills immediately.
Major Spills	Moderate hazard.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

## **SECTION 7 HANDLING AND STORAGE**

## Precautions for safe handling

Safe handling

► Avoid all personal contact, including inhalation.

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	▶ DO NOT allow clothing wet with material to stay in contact with skin		
Other information			
Conditions for safe storage, including any incompatibilities			
Suitable container	► Polyethylene or polypropylene container.		

## **SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

## **Control parameters**

OCCUPATIONAL EXPOSURE LIMITS (OEL)

Storage incompatibility

INGREDIENT DATA

Not Available

#### **EMERGENCY LIMITS**

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3	
sodium bromide	Sodium bromide	0.3 mg/m3	3.3 mg/m3	690 mg/m3	
Ingredient	Original IDLH		Revised IDLH		
sodium bromide	Not Available		Not Available		
water	Not Available		Not Available		

### **Exposure controls**

Appropriate engineering controls	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard.
Personal protection	
Eye and face protection	► Safety glasses with side shields.
Skin protection	See Hand protection below
Hands/feet protection	<ul> <li>Wear chemical protective gloves, e.g. PVC.</li> <li>The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer.</li> </ul>
Body protection	See Other protection below
Other protection	▶ Overalls.
Thermal hazards	Not Available

# **SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

## Information on basic physical and chemical properties

Appearance	colorless		
Physical state	Liquid	Relative density (Water = 1)	Not Available
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Available	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water (g/L)	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

### **SECTION 10 STABILITY AND REACTIVITY**

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Reactivity	See section 7
Chemical stability	► Unstable in the presence of incompatible materials.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

## **SECTION 11 TOXICOLOGICAL INFORMATION**

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ormation on toxicologic				
Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models).			
Ingestion	The material has NOT been classified by EC Directives or other classification s	The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion".		
Skin Contact	Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions.  There is some evidence to suggest that this material can cause inflammation of the skin on contact in some persons.			
Eye	Although the liquid is not thought to be an irritant (as classified by EC Directives by tearing or conjunctival redness (as with windburn).	s), direct contact with the eye ma	y produce transient discomfort characterised	
Chronic	Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course.			
IC-BR-10M Bromide (10,000µg/mL in H2O)	TOXICITY  Not Available	IRRITATION  Not Available		
sodium bromide	TOXICITY  Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup> Oral (rat) LD50: 2500 mg/kg <sup>[2]</sup>		IRRITATION Nil reported	
	TOXICITY		IRRITATION	

Legend:	

water

Oral (rat) LD50: >90000 mg/kg<sup>[2]</sup>

1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.\* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

SODIUM BROMIDE	Asthma-like symptoms may continue for months or even years after exposure to the material ceases.		
WATER	No significant acute toxicological data identified in literature se	earch.	
Acute Toxicity	0	Carcinogenicity	0
Acute Toxicity	G	Carcinogenicity	
Skin Irritation/Corrosion	$\circ$	Reproductivity	$\circ$
Serious Eye Damage/Irritation	0	STOT - Single Exposure	0
Respiratory or Skin sensitisation	0	STOT - Repeated Exposure	0
Mutagenicity	0	Aspiration Hazard	0

Legend:

X − Data available but does not fill the criteria for classification
 ✓ − Data required to make classification available

Not Available

O - Data Not Available to make classification

# **SECTION 12 ECOLOGICAL INFORMATION**

### Toxicity

TOXICITY					
Ingredient	Endpoint	Test Duration (hr)	Species	Value	Source
sodium bromide	BCF	144	Crustacea	53.11mg/L	4
sodium bromide	LC50	96	Fish	0.19mg/L	4
sodium bromide	EC50	48	Crustacea	0.0000067mg/L	5
sodium bromide	EC50	48	Crustacea	0.0000076mg/L	5
sodium bromide	NOEC	384	Crustacea	2.8mg/L	2
sodium bromide	EC50	72	Algae or other aquatic plants	>400mg/L	2
water	EC50	384	Crustacea	199.179mg/L	3
water	EC50	96	Algae or other aquatic plants	8768.874mg/L	3

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water	LC50	96	Fish	897.520mg/L	3
Legend:	Aquatic Toxicity Data (E	, ,	egistered Substances - Ecotoxicological Infon lase - Aquatic Toxicity Data 5. ECETOC Aqua	, ,	

#### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
sodium bromide	HIGH	HIGH
water	LOW	LOW

#### **Bioaccumulative potential**

Ingredient	Bioaccumulation
sodium bromide	LOW (LogKOW = -0.3713)
water	LOW (LogKOW = -1.38)

#### Mobility in soil

Ingredient	Mobility
sodium bromide	LOW (KOC = 14.3)
water	LOW (KOC = 14.3)

#### **SECTION 13 DISPOSAL CONSIDERATIONS**

#### Waste treatment methods

Product / Packaging disposal

Legislation addressing waste disposal requirements may differ by country, state and/ or territory.

- ▶ DO NOT allow wash water from cleaning or process equipment to enter drains.
- ► Recycle wherever possible.

### **SECTION 14 TRANSPORT INFORMATION**

### Labels Required

Marine Pollutant No

Land transport (DOT): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

#### Transport in bulk according to Annex II of MARPOL and the IBC code

Source	Product name	Pollution Category	Ship Type
IMO MARPOL (Annex II) - List of Noxious Liquid Substances Carried in Bulk	Sodium bromide solution (less than 50%) (*)	Υ	3

## **SECTION 15 REGULATORY INFORMATION**

Safety, health and environmental regulations / legislation specific for the substance or mixture

SODIUM BROMIDE(7647-15-6) IS FOUND ON THE FOLLOWING REGULATORY LISTS

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

WATER(7732-18-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

## **Federal Regulations**

## Superfund Amendments and Reauthorization Act of 1986 (SARA)

### SECTION 311/312 HAZARD CATEGORIES

Immediate (acute) health hazard	No
Delayed (chronic) health hazard	No
Fire hazard	No
Pressure hazard	No
Reactivity hazard	No

US. EPA CERCLA HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES (40 CFR 302.4)

None Reported

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### **State Regulations**

#### US. CALIFORNIA PROPOSITION 65

None Reported

National Inventory	Status
Australia - AICS	Y
Canada - DSL	Υ
Canada - NDSL	N (sodium bromide; water)
China - IECSC	Y
Europe - EINEC / ELINCS / NLP	Υ
Japan - ENCS	N (water)
Korea - KECI	Υ
New Zealand - NZIoC	Y
Philippines - PICCS	Y
USA - TSCA	Y
Legend:	Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

## **SECTION 16 OTHER INFORMATION**

#### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment.

#### **Definitions and abbreviations**

PC-TWA: Permissible Concentration-Time Weighted Average

PC-STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit。

IDLH: Immediately Dangerous to Life or Health Concentrations

OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level

LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value LOD: Limit Of Detection

OTV: Odour Threshold Value

BCF: BioConcentration Factors

BEI: Biological Exposure Index

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