

# IC-BR-10 Bromide (10µg/mL in H2O)

**High-Purity Standards** 

Catalogue number: IC-BR-10

Version No: 1.1

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

Chemwatch Hazard Alert Code: 0

Issue Date: **04/27/2017**Print Date: **04/27/2017**S GHS USA FN

# **SECTION 1 IDENTIFICATION**

#### **Product Identifier**

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

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

Relevant identified uses	Use according to manufacturer's directions.
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## 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**

Associ	ation / Organisation	INFOTRAC
Er	nergency telephone numbers	1-800-535-5053
Other er	mergency telephone numbers	1-352-323-3500

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

## Classification of the substance or mixture

Classification	Not Applicable
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# Label elements

Hazard pictogram(s)	Not Applicable	
SIGNAL WORD	NOT APPLICABLE	
	L	

## 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

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

#### Substances

See section below for composition of Mixtures

#### Mixtures

CAS No	%[weight]	Name	
7647-15-6	0.001 (as Br)	sodium bromide	
7732-18-5	balance	<u>water</u>	

## **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 irritation continues, seek medical attention.  • Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.	
Skin Contact	If skin or hair contact occurs:  ► Flush skin and hair with running water (and soap if available).  ► Seek medical attention in event of irritation.	
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**

## Extinguishing media

- ▶ There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

# Special hazards arising from the substrate or mixture

Fire Incompatibility	None known.		
Special protective equipment and precautions for fire-fighters			
<ul> <li>Use water delivered as a fine spray to control fire and cool adjacent area.</li> <li>Do not approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> <li>If safe to do so, remove containers from path of fire.</li> <li>Equipment should be thoroughly decontaminated after use.</li> </ul>			
Fire/Explosion Hazard	<ul> <li>Non combustible.</li> <li>Not considered a significant fire risk, however containers may burn.</li> </ul>		

## **SECTION 6 ACCIDENTAL RELEASE MEASURES**

# Personal precautions, protective equipment and emergency procedures

See section 8

## **Environmental precautions**

See section 12

## Methods and material for containment and cleaning up

# Minor Spills

- ► Clean up all spills immediately.
- Avoid breathing vapours and contact with skin and eyes.
- ► Control personal contact with the substance, by using protective equipment.
- Contain personal contact with the substance, by using protective equip
   Contain and absorb spill with sand, earth, inert material or vermiculite.
- ▶ Wipe up
- ▶ Place in a suitable, labelled container for waste disposal.

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## **Major Spills**

- Clear area of personnel and move upwind.
- Alert Fire Brigade and tell them location and nature of hazard.
- Control personal contact with the substance, by using protective equipment.
- Prevent spillage from entering drains, sewers or water courses. Recover product wherever possible.
- Put residues in labelled containers for disposal.
- ▶ If contamination of drains or waterways occurs, advise emergency services.

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

## **SECTION 7 HANDLING AND STORAGE**

#### Precautions for safe handling

- Limit all unnecessary personal contact.
- Wear protective clothing when risk of exposure occurs.
- Use in a well-ventilated area.
- Avoid contact with incompatible materials.
- When handling, DO NOT eat, drink or smoke Keep containers securely sealed when not in use.
- Safe handling
- Avoid physical damage to containers.
- Always wash hands with soap and water after handling.
- Work clothes should be laundered separately
- Use good occupational work practice.
- Observe manufacturer's storage and handling recommendations contained within this SDS.
- Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.

Other information

## Conditions for safe storage, including any incompatibilities

## Suitable container

- ► Polyethylene or polypropylene container.
- Packing as recommended by manufacturer
- ► Check all containers are clearly labelled and free from leaks

Storage incompatibility

Avoid contamination of water, foodstuffs, feed or seed

None known

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

## **Control parameters**

#### OCCUPATIONAL EXPOSURE LIMITS (OEL)

#### INGREDIENT DATA

Not Available

## **EMERGENCY LIMITS**

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
sodium bromide	Sodium bromide	12 mg/m3	130 mg/m3	830 mg/m3
Ingredient	Original IDLH		Revised IDLH	
sodium bromide	Not Available		Not Available	
water	Not Available		Not Available	

## **Exposure controls**

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.

The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use.

Employers may need to use multiple types of controls to prevent employee overexposure.

General exhaust is adequate under normal operating conditions. If risk of overexposure exists, wear SAA approved respirator. Correct fit is essential to obtain adequate protection. Provide adequate ventilation in warehouse or closed storage areas. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.

#### Appropriate engineering controls

Type of Contaminant:	Air Speed:
solvent, vapours, degreasing etc., evaporating from tank (in still air)	0.25-0.5 m/s (50-100 f/min)
aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation)	0.5-1 m/s (100-200 f/min.)
direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion)	1-2.5 m/s (200-500 f/min)
grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity into zone of very high rapid air motion).	2.5-10 m/s (500-2000 f/min.)

Within each range the appropriate value depends on:

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Lower end of the range	Upper end of the range
1: Room air currents minimal or favourable to capture	1: Disturbing room air currents
2: Contaminants of low toxicity or of nuisance value only	2: Contaminants of high toxicity
3: Intermittent, low production.	3: High production, heavy use
4: Large hood or large air mass in motion	4: Small hood - local control only

Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min.) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.

#### Personal protection







Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]

# Eye and face protection

#### Safety glasses with side shields Chemical goggles.

Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH

#### Skin protection

#### See Hand protection below

Wear general protective gloves, eg. light weight rubber gloves.

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. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.

Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended.

Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include:

- frequency and duration of contact
- chemical resistance of glove material,
- glove thickness and
- dexterity

#### Hands/feet protection

Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent).

- When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.
- When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.
- Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use.
- Contaminated gloves should be replaced.

For general applications, gloves with a thickness typically greater than 0.35 mm, are recommended.

It should be emphasised that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material. Therefore, glove selection should also be based on consideration of the task requirements and knowledge of breakthrough times.

Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers' technical data should always be taken into account to ensure selection of the most appropriate glove for the task.

Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example:

- Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, then disposed of.
- Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential

Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended.

# **Body protection**

See Other protection below

No special equipment needed when handling small quantities.

#### Other protection

OTHERWISE: Overalls.

Barrier cream.

Eyewash unit.

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

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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**

Reactivity	See section 7
Chemical stability	Product is considered stable and hazardous polymerisation will not occur.
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**

## Information on toxicological effects

The material is not thought to produce acheres health effects or irritation of the respiratory tract (as classified by EC Directives using arimal models). Newtheless, good hygiene produce requires that exposure be kept to a minimum and that suitable on an occupational setting.    The material is not thought to produce acheres health effects or skin initiation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene produce requires that exposure be kept to a minimum and that suitable of measures be used in an occupational setting.    Skin Contact							
saimed or human evidence.  Skin Contact The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.  Although the liquid is not thought to be an initiant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival retheress (as with windburn).  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.  TOXICITY  INTRITATION  Not Available  TOXICITY  Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup> Oral (rat) LD50: >2000 mg/kg <sup>[2]</sup> TOXICITY  INTRITATION  Not Available  TOXICITY  Not Available  TOXICITY  INTRITATION  Not Available  TOXICITY  Not Available  TOXICITY  INTRITATION  Not Available  TOXICITY  Not Available  TOXICITY  Not Available  TOXICITY  Not Available  TOXICITY  Not Available	Inhaled						
Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.  Although the liquid is not thought to be an intrant (as classified by EC Directives), direct contact with the eye may produce transient discordior characterised by tearing or conjunctival redness (as with windburn).  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-10 Bromide (10µg/mL in H2O)  TOXICITY  Not Available  TOXICITY  Domail (rabbit) LD50: >2000 mg/kg <sup>12</sup> Poral (rat) LD50: >2000 mg/kg <sup>12</sup> TOXICITY  IRRITATION  Not Available  TOXICITY  Not Available  TOXICITY  IRRITATION  Not Available  TOXICITY  Not Available  TOXICITY  Not Available  TOXICITY  IRRITATION  Not Available  TOXICITY  Not Available  TOXICITY	Ingestion						
by tearing or conjunctual redness (as with windburn).  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-10 Bromide (10µg/mL in H2O)  TOXICITY IRRITATION  Not Available  TOXICITY IRRITATION  Dermal (rabbit) LD50: >2000 mg/kg <sup>11</sup> Not Available  TOXICITY IRRITATION  Dermal (rabbit) LD50: >2000 mg/kg <sup>11</sup> Not Available  TOXICITY IRRITATION  Not Available  Toxicity Not Available  Ashma-like symptoms may continue for months or even years after exposure to the material ends.  WATER No significant acute toxicological data identified in literature search.  Acute Toxicity Serious Eye Damage/firitation  Respiratory or Skin Serious Eye STOT - Single Exposure  STOT - Single Exposure	Skin Contact						
IC-BR-10 Bromide (10µg/mL in H2O)   TOXICITY   IRRITATION   Not Available   Not Available	Eye						
Not Available     TOXICITY	Chronic			o the health (as classified b	by EC Directives using animal models);		
Not Available     TOXICITY							
TOXICITY	IC-BR-10 Bromide	TOXICITY	IRRIT	TATION			
Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup>   Not Available	(10μg/mL in H2O)	Not Available	Not A	Available			
Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup>   Not Available							
TOXICITY Not Available  Legend:  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 ends.  No significant acute toxicological data identified in literature search.  Acute Toxicity Skin Irritation/Corrosion Serious Eye Damage/Irritation Respiratory or Skin sensitisation  Respiratory or Skin sensitisation					-		
water    TOXICITY   Not Available   Not Available	sodium bromide	Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup>			Not Available		
Not Available   Not Available   Not Available		Oral (rat) LD50: 2500 mg/kg <sup>[2]</sup>					
Not Available   Not Available   Not Available							
Legend:  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 ends.  WATER  No significant acute toxicological data identified in literature search.  Carcinogenicity  Skin Irritation/Corrosion  Serious Eye Damage/Irritation  Respiratory or Skin sensitisation  STOT - Repeated Exposure	water	water					
extracted from RTECS - Register of Toxic Effect of chemical Substances  SODIUM BROMIDE							
WATER No significant acute toxicological data identified in literature search.  Acute Toxicity Carcinogenicity Skin Irritation/Corrosion Reproductivity Serious Eye Damage/Irritation STOT - Single Exposure STOT - Repeated Exposure STOT - Repeated Exposure	Legend:			e obtained from manufactu	rer's SDS. Unless otherwise specified data		
WATER No significant acute toxicological data identified in literature search.  Acute Toxicity Carcinogenicity Reproductivity Skin Irritation/Corrosion Serious Eye Damage/Irritation STOT - Single Exposure STOT - Repeated Exposure STOT - Repeated Exposure							
Acute Toxicity  Skin Irritation/Corrosion  Serious Eye Damage/Irritation  Respiratory or Skin sensitisation  STOT - Repeated Exposure	SODIUM BROMIDE	Asthma-like symptoms may continue for months or even years	s after exposure to the mat	iterial ends.			
Skin Irritation/Corrosion  Serious Eye Damage/Irritation  Respiratory or Skin sensitisation  STOT - Repeated Exposure	WATER	No significant acute toxicological data identified in literature	search.				
Serious Eye Damage/Irritation  Respiratory or Skin sensitisation  STOT - Single Exposure STOT - Repeated Exposure	Acute Toxicity	0	Carcino	ogenicity 🛇			
Damage/Irritation  Respiratory or Skin sensitisation  STOT - Single Exposure  STOT - Repeated Exposure	Skin Irritation/Corrosion	0	Reprod	ductivity			
sensitisation S101 - Repeated Exposure		0	STOT - Single Ex	exposure 🛇			
Mutagenicity   Aspiration Hazard		0	STOT - Repeated Ex	xposure			
	Mutagenicity	0	Aspiration	n Hazard			

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Leaend:

🙏 – Data avaliable but does not till the criteria for classification

- Data available to make classification

Data Not Available to make classification

#### **SECTION 12 ECOLOGICAL INFORMATION**

#### Toxicity

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IC-BR-10 Bromide	ENDPOINT		TEST DURATION (HR)		SPECIES	VAL	LUE	SOUR	CE
(10µg/mL in H2O)	Not Applicable		Not Applicable		Not Applicable	Not	Applicable	Not Ap	plicable
	ENDPOINT	TES	T DURATION (HR)	SPECIES			VALUE		SOURC
	LC50	96		Fish			0.19mg/L		4
	EC50	48		Crustacea	Crustacea		0.0000067mg/L 5		5
sodium bromide	EC50	96		Algae or o	Algae or other aquatic plants		=5800.0-24000mg/L		1
	BCF	144		Crustacea	Crustacea		53.11mg/L		4
	EC50	48		Crustacea	a		0.0000076mg/L		5
	NOEC	384		Crustacea	a		2.8mg/L		4
water	ENDPOINT		TEST DURATION (HR)		SPECIES	VAL	LUE	SOUR	CE
Water	Not Applicable		Not Applicable		Not Applicable	Not	Applicable	Not Ap	plicable

## Persistence and degradability

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

(Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

(QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE

## **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. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked. A Hierarchy of Controls seems to be common - the user should investigate:

▶ Reduction

- ▶ Reuse
- ► Recycling
- ► Disposal (if all else fails)

This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate.

- ▶ DO NOT allow wash water from cleaning or process equipment to enter dra
  - It may be necessary to collect all wash water for treatment before disposal.
  - In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
  - Where in doubt contact the responsible authority.
  - Recycle wherever possible.
  - Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.
  - Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or incineration in a licensed apparatus (after admixture with suitable combustible material).
  - ▶ Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.

## **SECTION 14 TRANSPORT INFORMATION**

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#### **Labels Required**

NO **Marine Pollutant** 

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%) (*)	Y	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 - Pennsylvania - Hazardous Substance List

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

#### 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	Υ
Europe - EINEC / ELINCS / NLP	Y
Japan - ENCS	N (sodium bromide; water)
Korea - KECI	Υ
New Zealand - NZIoC	Υ
Philippines - PICCS	Υ
USA - TSCA	Υ
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. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

## **Definitions and abbreviations**

PC-TWA: Permissible Concentration-Time Weighted Average

 ${\sf PC-STEL} : {\sf Permissible Concentration-Short Term Exposure Limit}$ 

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

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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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