BARIUM (BA) ICP STANDARD SOLUTION 10 GM/L IN DILUTE HCL TRACEABLE TO NIST MSDS



CAS No: MSDS

MATERIAL SAFETY DATA SHEET (MSDS)

1.1. Product identifier			
Product form	: Mixture		
	:		
Product code	: I800H		
1.2. Relevant identified	uses of the substance or mixture and uses advised against		
1.2.1. Relevant identified	uses		
Use of the substance/mixture	: Laboratory chemicals, Manufacture of substances		
4.0.0 Uses advised analy			
1.2.2. Uses advised against			
No additional informat	ion available		
1.3. Details of the supp	lier of the safety data sheet		
SPAN LAB			
SFAN LAD			

PH: +91 9820509929 info@spanlab.in www.spanlab.in

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation,H315Category 2Serious eye damage/eyeH319irritation, Category 2Specific target organH335toxicity — Singleexposure, Category 3,Respiratory tract irritation

Full text of classification categories and H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

Safety Data Sheet

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)	: GHS07
Signal word (CLP)	: Warning
Hazard statements (CLP)	 H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation
Precautionary statements (CLP)	: P261 - Avoid breathing dust/fume/gas/mist/vapours/spray P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients			
3.1.	Substance		
Not appl	icable		

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Water	(CAS No) 7732-18-5 (EC no) 231-791-2	75 - 99	Not classified
Hydrochloric acid	(CAS No) 7647-01-0 (EC no) 231-595-7 (EC index no) 017-002-01-X	5 - 10	Skin Corr. 1B, H314 STOT SE 3, H335
BARIUM CHLORIDE(DIHYDRATED) EXTRA PURE 99%	(CAS No) 10326-27-9	1 - 5	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Inhalation), H332

Full text of H-phrases: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

Safety Data Sheet

First-aid measures after skin contact	: Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. Immediately call a POISON CENTER or doctor/physician.
First-aid measures after eye contact	 Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.
4.2. Most important symptoms and o	effects, both acute and delayed
Symptoms/injuries after skin contact	: Causes skin irritation.
Symptoms/injuries after eye contact	: Causes serious eye irritation.
Symptoms/injuries after ingestion	: Swallowing a small quantity of this material will result in serious health hazard.
	dical attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Carbon dioxide. Dry powder. Foam. Water spray.
Unsuitable extinguishing media	: Do not use extinguishing media containing water.
5.2. Special hazards arising from the	e substance or mixture
No additional information available	
5.3. Advice for firefighters	
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release measure	S
6.1. Personal precautions, protective	e equipment and emergency procedures
	e equipment and emergency procedures
	e equipment and emergency procedures : Evacuate unnecessary personnel.
6.1.1. For non-emergency personnel	
6.1.1. For non-emergency personnel Emergency procedures	
6.1.1. For non-emergency personnel Emergency procedures6.1.2. For emergency responders	: Evacuate unnecessary personnel.
 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment 	: Evacuate unnecessary personnel.
 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment 6.2. Environmental precautions 	 Evacuate unnecessary personnel. Use personal protective equipment as required.
 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment 6.2. Environmental precautions Avoid release to the environment. 	 Evacuate unnecessary personnel. Use personal protective equipment as required.
 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment 6.2. Environmental precautions Avoid release to the environment. 6.3. Methods and material for contain 	 Evacuate unnecessary personnel. Use personal protective equipment as required.
 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment 6.2. Environmental precautions Avoid release to the environment. 6.3. Methods and material for contait Methods for cleaning up 	 Evacuate unnecessary personnel. Use personal protective equipment as required.
 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment 6.2. Environmental precautions Avoid release to the environment. 6.3. Methods and material for contain Methods for cleaning up 6.4. Reference to other sections 	 Evacuate unnecessary personnel. Use personal protective equipment as required.
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 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment 6.2. Environmental precautions Avoid release to the environment. 6.3. Methods and material for contain Methods for cleaning up 6.4. Reference to other sections No additional information available SECTION 7: Handling and storage 7.1. Precautions for safe handling 	 Evacuate unnecessary personnel. Use personal protective equipment as required. nment and cleaning up On land, sweep or shovel into suitable containers. Collect spillage.
 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment 6.2. Environmental precautions Avoid release to the environment. 6.3. Methods and material for contain Methods for cleaning up 6.4. Reference to other sections No additional information available SECTION 7: Handling and storage 	 Evacuate unnecessary personnel. Use personal protective equipment as required.
 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment 6.2. Environmental precautions Avoid release to the environment. 6.3. Methods and material for contain Methods for cleaning up 6.4. Reference to other sections No additional information available SECTION 7: Handling and storage 7.1. Precautions for safe handling Precautions for safe handling 	 Evacuate unnecessary personnel. Use personal protective equipment as required. nment and cleaning up On land, sweep or shovel into suitable containers. Collect spillage. : Avoid contact with skin and eyes. Do not breathe vapours. : Avoid contact with skin and eyes. Do not breathe vapours. : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment 6.2. Environmental precautions Avoid release to the environment. 6.3. Methods and material for contain Methods for cleaning up 6.4. Reference to other sections No additional information available SECTION 7: Handling and storage 7.1. Precautions for safe handling Precautions for safe handling Hygiene measures 	 Evacuate unnecessary personnel. Use personal protective equipment as required. nment and cleaning up On land, sweep or shovel into suitable containers. Collect spillage. : Avoid contact with skin and eyes. Do not breathe vapours. : Avoid contact with skin and eyes. Do not breathe vapours. : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment 6.2. Environmental precautions Avoid release to the environment. 6.3. Methods and material for contain Methods for cleaning up 6.4. Reference to other sections No additional information available SECTION 7: Handling and storage 7.1. Precautions for safe handling Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, inc 	 Evacuate unnecessary personnel. Use personal protective equipment as required. nment and cleaning up On land, sweep or shovel into suitable containers. Collect spillage. Avoid contact with skin and eyes. Do not breathe vapours. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. uding any incompatibilities
 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment 6.2. Environmental precautions Avoid release to the environment. 6.3. Methods and material for contain Methods for cleaning up 6.4. Reference to other sections No additional information available SECTION 7: Handling and storage 7.1. Precautions for safe handling Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, inc Storage conditions 	 Evacuate unnecessary personnel. Use personal protective equipment as required. nment and cleaning up On land, sweep or shovel into suitable containers. Collect spillage. Avoid contact with skin and eyes. Do not breathe vapours. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. uding any incompatibilities

Safety Data Sheet

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls	
Hand protection	: Protective gloves
Eye protection	: Chemical goggles or face shield
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: Wear respiratory protection
SECTION 9: Physical and chemical prop	erties
9.1. Information on basic physical a Physical state	nd chemical properties : Liquid
Colour	: Clear colourless.
Odour	: No data available
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available

Safety Data Sheet	
Oxidising properties	: No data available
Explosive limits	: No data available
9.2. Other information No additional information available	
SECTION 10: Stability and reactivity	
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
Stable under normal conditions.	
10.3. Possibility of hazardous reacti	ons
No additional information available	
10.4. Conditions to avoid	
No additional information available	
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition pro	ducts
No additional information available	
SECTION 11: Toxicological information	
11.1. Information on toxicological ef	
Acute toxicity	: Not classified
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single	: May cause respiratory irritation.
exposure)	
Specific target organ toxicity (repeated	: Not classified
exposure)	. NUL GIASSIIICU
Aspiration hazard	: Not classified

Safety Data Sheet

SECTION 12:	

12.1. Toxicit	v
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No additional information available

12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB asses	semant
No additional information available	SSITCH
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Product/Packaging disposal recommendations	: Dispose of contents/container to
SECTION 14: Transport Information	
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IA	TA / ADN
	TA / ADN
	TA / ADN
In accordance with ADR / RID / IMDG / IA	TA / ADN : 1789
In accordance with ADR / RID / IMDG / IA 14.1. UN number	
In accordance with ADR / RID / IMDG / IA 14.1. UN number UN-No. (ADR)	: 1789
In accordance with ADR / RID / IMDG / IA 14.1. UN number UN-No. (ADR) UN-No. (IMDG)	: 1789 : 1789
In accordance with ADR / RID / IMDG / IA 14.1. UN number UN-No. (ADR) UN-No. (IMDG) UN-No.(IATA)	: 1789 : 1789 : 1789
In accordance with ADR / RID / IMDG / IA 14.1. UN number UN-No. (ADR) UN-No. (IMDG) UN-No.(IATA) UN-No.(ADN) UN-No. (RID)	: 1789 : 1789 : 1789 : 1789 : Not regulated
In accordance with ADR / RID / IMDG / IA 14.1. UN number UN-No. (ADR) UN-No. (IMDG) UN-No. (IATA) UN-No. (ADN) UN-No. (RID) 14.2. UN proper shipping name	: 1789 : 1789 : 1789 : Not regulated : Not regulated
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Safety Data Sheet

14.3. Transport hazard class(es)			
ADR			
Transport hazard class(es) (ADR)	: 8		
Danger labels (ADR)	: 8		
IMDG			
Transport hazard class(es) (IMDG)	: 8		
Danger labels (IMDG)	: 8		
	: 8		
ΙΑΤΑ			
Transport hazard class(es) (IATA)	: 8		
Hazard labels (IATA)	: 8		
ADN Transport hazard class(es) (ADN)	: Not regulated		
RID			
Transport hazard class(es) (RID)	: Not regulated		
14.4. Packing group			
Packing group (ADR)	: 111		
Packing group (IMDG)	: 111		
Packing group (IATA)	: III - Nature undefand		
Packing group (ADN)	: Not regulated		
Packing group (RID)	: Not regulated		
14.5. Environmental hazards			
Dangerous for the environment	: No		
Marine pollutant	: No		
Other information	: No supplementary information available		
14.6. Special precautions for user			
- Overland transport			
Classification code (ADR)	: C1		
Special provision (ADR)	: 520		
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Safety Data Sheet

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Limited quantities (ADR)	: 5L
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P001, IBC03, LP01, R001
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T4
Portable tank and bulk container special provisions (ADR)	: TP1
Tank code (ADR)	: L4BN
Vehicle for tank carriage	: AT
Transport category (ADR)	: 3
Special provisions for carriage - Packages (ADR)	: V12
Hazard identification number (Kemler No.)	: 80
Orange plates	00
	80
	1789
Tunnel restriction code (ADR)	: E
EAC code	: 2R
Transport by see	
- Transport by sea	
Special provision (IMDG)	: 223 : 5 L
Limited quantities (IMDG)	
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P001, LP01
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-B
Stowage category (IMDG)	: C
MFAG-No	: 157
- Air transport	
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y841
PCA limited quantity max net quantity	: 1L
(IATA)	
PCA packing instructions (IATA)	: 852
PCA max net quantity (IATA)	: 5L
CAO packing instructions (IATA)	: 856
CAO max net quantity (IATA)	: 60L
Special provision (IATA)	: A3
ERG code (IATA)	: 8L
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- Inland waterway transport

Not regulated

- Rail transport

Not regulated

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

Safety Data Sheet

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no substances with Annex XVII restrictions Contains no REACH candidate substance

Contains no REACH Annex XIV substances.

15.1.2. National regulations

Germany	
AwSV/VwVwS Annex reference	: Water hazard class (WGK) 3, strongly hazardous to water (Classification according to AwSV, Annex 1)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)
Denmark	
Recommendations Danish Regulation	: Young people below the age of 18 years are not allowed to use the product

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-phrases:

Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
· · · ·	
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H301	Toxic if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation

Safety Data Sheet

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product