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

CAS No: MSDS



MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identification	of the substance/mixture and of the company/undertaking	
1.1. Product identifier		
Product form	: Mixture	
Product code	: : 1800H	
Floduci code	. 180011	
1.2. Relevant identified	d uses of the substance or mixture and uses advised against	
1.2.1. Relevant identified	d uses	
Use of the substance/mixture	e : Laboratory chemicals, Manufacture of substances	
1.2.2. Uses advised agai	inst	
1.2.2. Uses advised again No additional information available.		
	plier of the safety data sheet	
Labogens Fine Chem Indust 1st Floor Above Bank of Ind	tries dia, Guru Vihar , Rahon Road,	
Ludhiana Pb. (141007)		
+91 9316777775, +91 77078		
sales@labogens.com - ww	<u>vw.Labogens.com</u>	
1.4. Emergency teleph	ione number	
Emergency number	: +91 7707855700 (9:00am - 6:00 pm)	
SECTION 2: Hazards ident	ification	
2.1. Classification of t	he substance or mixture	
	o Regulation (EC) No. 1272/2008 [CLP]	
-		
Skin corrosion/irritation, H Category 2	H315	
Serious eye damage/eye	H319	
irritation, Category 2 Specific target organ	H335	
toxicity — Single		
exposure, Category 3, Respiratory tract irritation		
	egories and H statements : see section 16	

Adverse physicochemical, human health and environmental effects

No additional information available

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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 app	licable			

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 measure	S
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.

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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	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.
4.3. Indication of any immediate me No additional information available	edical attention and special treatment needed
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 th	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	es
6.1. Personal precautions, protectiv	ve equipment and emergency procedures
6.1. Personal precautions, protective6.1.1. For non-emergency personnel	/e equipment and emergency procedures
	 e equipment and emergency procedures Evacuate unnecessary 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	
6.1.1. 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 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 contact 	 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 conta 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 conta 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. inment 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,
 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 conta 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. inment and cleaning up On land, sweep or shovel into suitable containers. Collect spillage. : Avoid contact with skin and eyes. Do not breathe vapours.
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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 conta 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 Hygiene measures 7.2. Conditions for safe storage, incompared 	 Evacuate unnecessary personnel. Use personal protective equipment as required. imment 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. cuding any incompatibilities
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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	perties
9.1. Information on basic physical a	
Physical state	: 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

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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 reaction	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	ifacte			
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 exposure)	: Not classified			
Aspiration hazard	: Not classified			

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SECTION 12: Ecological information				
12.1. Toxicity				
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				
No additional information available	soment			
12.6. Other adverse effects				
No additional information available				
SECTION 13: Disposal considerations				
13.1. Waste treatment methods				
Product/Packaging disposal	: Dispose of contents/container to			
recommendations				
SECTION 14: Transport information				
In accordance with ADR / RID / IMDG / IA	TA / ADN			
14.1. UN number				
UN-No. (ADR)	: 1789			
UN-No. (IMDG)	: 1789			
UN-No.(IATA)	: 1789			
UN-No.(ADN)	: Not regulated			
UN-No. (RID)	: Not regulated			
14.2. UN proper shipping name				
Proper Shipping Name (ADR)				
Proper Shipping Name (IMDG)				
Proper Shipping Name (IATA)	: HYDROCHLORIC ACID			
Proper Shipping Name (ADN)	: Not regulated			
Proper Shipping Name (RID) : Not regulated Transport document description (ADR) : UN 1789 HYDROCHLORIC ACID, 8, III, (E)				
Transport document description (ADR): UN 1789 HYDROCHLORIC ACID, 8, III, (E)Transport document description (IMDG): UN 1789 HYDROCHLORIC ACID, 8, III				
Transport document description (IMDG)	: UN 1789 HYDROCHLORIC ACID, 8, III : UN 1789 HYDROCHLORIC ACID, 8, III			

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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		
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)	: 111		
Packing group (ADN)	: Not regulated		
Packing group (RID)	: Not regulated		
14.5. Environmental hazards	· No		
Dangerous for the environment	: No		
Marine pollutant Other information	: No		
	: No supplementary information available		
14.6. Special precautions for user			
- Overland transport			
Classification code (ADR)	: C1		
Special provision (ADR)	: 520		
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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)	:	Τ4
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	:	Q ()
		80 1789
Tunnel restriction code (ADR)		E
EAC code		2R
	•	21
- Transport by sea		
Special provision (IMDG)	:	223
Limited quantities (IMDG)	:	5 L
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)	:	С
MFAG-No	:	157
- Air transport		
PCA Excepted quantities (IATA)	:	E1
PCA Limited quantities (IATA)	:	Y841
PCA limited quantity max net quantity (IATA)	:	1L
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

- 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

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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 : 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

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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