# BARIUM (BA) ICP STANDARD SOLUTION 1 GM/L IN DILUTE HCL TRACEABLE TO NIST MSDS



# CAS No: MSDS

# MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identification of	f the substance/mixture and of the company/undertaking	
1.1. Product identifier		
Product form	: Mixture	
	:	
Product code	: I700H	
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	
1.2.2. Uses advised again	ist	
No additional information avai	lable	
1.3. Details of the suppl	Details of the supplier of the safety data sheet	
SPAN LAB		
UNIT NO. 14,SKY INDUSTRIAL ESTATE,WALIV, VASAI (E)		
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### **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

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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)	<ul> <li>H315 - Causes skin irritation</li> <li>H319 - Causes serious eye irritation</li> <li>H335 - May cause respiratory irritation</li> </ul>
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

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

### 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	1 - 5	Skin Corr. 1B, H314 STOT SE 3, H335
BARIUM CHLORIDE(DIHYDRATED) EXTRA PURE 99%	(CAS No) 10326-27-9	0.01 - 1	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Inhalation), H332

Full text of H-phrases: see section 16

SECT	ION 4: First aid measures				
4.1.	Description of first aid measures	S			
First-a	id measures after inhalation		athing. If breathing is c comfortable for breath	difficult, remove victim to ing.	fresh air and keep
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First-aid measures after skin contact	: Wash with plenty of soap and water. Wash contaminated clothing before reuse. Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Do not induce vomiting. Get medical advice/attention.
4.2. Most important symptoms and e	ffects, 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 med	lical attention and special treatment needed
Treat symptomatically.	
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	
5.2. Special hazards arising from the No additional information available	substance of mixture
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
6.1.1. For non-emergency personnel	
	: Evacuate unnecessary personnel.
6.1.1. For non-emergency personnel	
6.1.1. For non-emergency personnel Emergency procedures	
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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 safety glasses
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	: Liquid
Colour	: Clear colourless.
Odour	: No data available
Odour threshold	: No data available
pH	: 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

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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	
Direct sunlight. Overheating. Heat. Open f	lame.
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition proc	ducts
No additional information available	
SECTION 11: Toxicological information	
11.1. Information on toxicological ef	fects
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
Specific target organ toxicity (repeated exposure)	: Not classified
exposure)	
	: Not classified : Not classified

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### **SECTION 12: Ecological information**

12.1. Toxicity

No additional information available

	12.2.	Persistence	and	degradability	
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No additional information available

12.3.	Bioaccumulative potential		
No add	No additional information available		
12.4.	Mobility in soil		
No add	No additional information available		

	12.5. Results of PBT and vPvB ass	essment		
No additional information available				
	12.6. Other adverse effects			
	No additional information available			
	SECTION 13: Disposal considerations			
	OLOTION 10. Disposal considerations			
	13.1. Waste treatment methods			
	No additional information available			
	SECTION 14: Transport information			
	In accordance with ADR / RID / IMDG /	AIA/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)	: HYDROCHLORIC ACID
Proper Shipping Name (IMDG)	: HYDROCHLORIC ACID
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 (IMDG)	: UN 1789 HYDROCHLORIC ACID, 8, III
Transport document description (IATA)	: UN 1789 HYDROCHLORIC ACID, 8, III
14.3. Transport hazard class(es)	

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Transport hazard class(es) (ADR)	: 8
Danger labels (ADR)	: 8
	8
Transport hazard class(es) (IMDG)	: 8
Danger labels (IMDG)	: 8
ΙΑΤΑ	
Transport hazard class(es) (IATA)	: 8
Hazard labels (IATA)	: 8
Transport hazard class(es) (ADN)	: Not regulated
RID	
Transport hazard class(es) (RID)	: Not regulated
14.4. Packing group	
Dealing many (ADD)	. 10
Packing group (ADR)	: III
Packing group (IMDG)	: 111
Packing group (IMDG) Packing group (IATA)	: III : III
Packing group (IMDG) Packing group (IATA) Packing group (ADN)	: III : III : Not regulated
Packing group (IMDG) Packing group (IATA)	: III : III
Packing group (IMDG) Packing group (IATA) Packing group (ADN)	: III : III : Not regulated
Packing group (IMDG) Packing group (IATA) Packing group (ADN) Packing group (RID)	: III : III : Not regulated
Packing group (IMDG) Packing group (IATA) Packing group (ADN) Packing group (RID) 14.5. Environmental hazards	: III : III : Not regulated : Not regulated

## 14.6. Special precautions for user

- Overland transport	
Classification code (ADR)	: C1
Special provision (ADR)	: 520
Limited quantities (ADR)	: 5L
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P001, IBC03, LP01, R001
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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	· <b>80</b>
	1789
Tunnel restriction code (ADR)	: E
EAC code	: 2R
Transport by and	
- Transport by sea Special provision (IMDG)	: 223
Limited quantities (IMDG)	. 223 : 5L
Excepted quantities (IMDG)	: 5L : 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	
- 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
- Inland waterway transport	
Not regulated	
<u> </u>	

- 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	
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

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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