## ZINC (ZN) ICP STANDARD SOLUTION 10 GM/L IN DILUTE HCL TRACEABLE TO NIST **MSDS**

### CAS No: MSDS



### MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identification	n of the substance/mixture and of the company/undertaking
1.1. Product identifie	
Product form	: Mixture
Product code	: : 1164H
1.2. Relevant identified	ed uses of the substance or mixture and uses advised against
1.2.1. Relevant identified	ed uses
Use of the substance/mixtu	ure : Laboratory chemicals, Manufacture of substances
1.2.2. Uses advised ag	ainst
No additional information a	
1.3. Details of the su	pplier of the safety data sheet
Labogens Fine Chem Indu	istries
1st Floor, Above Bank of I Ludhiana Pb. (141007)	India, Guru Vihar , Rahon Road,
+91 9316777775, +91 770	7855700
sales@labogens.com - w	
1.4. Emergency telep	phone number
Emergency number	: +91 7707855700 (9:00am - 6:00 pm)
SECTION 2: Hazards iden	ntification
2.1. Classification of	the substance or mixture
	to Regulation (EC) No. 1272/2008 [CLP]
-	
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye	H319
irritation, Category 2 Specific target organ	H335
toxicity — Single	
exposure, Category 3, Respiratory tract irritation	
Full text of classification ca	ategories 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

SECTIO	IN 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
Zinc powder - zinc dust (pyrophoric)	(CAS No) 7440-66-6 (EC no) 231-175-3 (EC index no) 030-001-00-1	1 - 5	Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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 breathin Immediately call a POISON CENTER or doctor/physician.	ıg.
www.l.abagana.com	11/10/2016	2/10

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First-aid measures after skin contact	<ul> <li>Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician.</li> </ul>
First-aid measures after eye contact	<ul> <li>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.</li> </ul>
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 inhalation	: May cause respiratory irritation.
Symptoms/injuries after skin contact	: Causes skin irritation.
Symptoms/injuries after eye contact	: Causes serious eye irritation.
4.3. Indication of any immediate me	dical attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Foam. Dry powder. Carbon dioxide.
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 a la companya de l
6.1 Porsonal procautions protectiv	a aquipment and amergency procedures
	e equipment and emergency procedures
6.1.1. For non-emergency personnel	
	e equipment and emergency procedures : Evacuate unnecessary personnel.
6.1.1. For non-emergency personnel	
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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	
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

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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.	
10.2 Possibility of bozordous rossi	010
<b>10.3. Possibility of hazardous reacti</b> No additional information available	015
10.4. Conditions to avoid	
Direct sunlight. Air contact.	
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	ifects
Acute toxicity	: Not classified
Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation Germ cell mutagenicity	: Not classified : Not classified
Carcinogenicity	: Not classified
Carcinogenicity	
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Creating target argen tovisity (repeated	· Not clossified
Specific target organ toxicity (repeated exposure)	: Not classified
. ,	
Aspiration hazard	: Not classified

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SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - water	: Harmful to aquatic life with long lasting effects.
12.2. Persistence and degradability	
ZINC (Zn) ICP STANDARD SOLUTION	10 GM/L IN DILUTE HCI traceable to NIST
Persistence and degradability	May cause long-term adverse effects in the environment.
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	ssment
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerations	
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	Danger labels (ADN)	: 8
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8		
	RID	
	Transport hazard class(es) (RID)	
anger labels (RID) : 8	Danger labels (RID)	: 8
8		8
		$\mathbf{\nabla}$
4.4. Packing group	4.4. Packing group	

14.4.	Packing group	
Packing	group (ADR)	: 111
Packing	group (IMDG)	: 111
Packing	group (IATA)	: 111

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Other information

Packing	g group (ADN)	: 111
Packing	g group (RID)	: 111
14.5.	Environmental hazards	

Dangerous for the environment	: No			
Marine pollutant	: No			

: No

: No supplementary information available

#### 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
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	80
	1789
Tunnel restriction code (ADR)	: E
EAC code	: 2R
	: 2R
- Transport by sea	
- Transport by sea Special provision (IMDG)	: 223
- Transport by sea Special provision (IMDG) Limited quantities (IMDG)	: 223 : 5 L
- Transport by sea Special provision (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG)	: 223 : 5 L : E1
- Transport by sea Special provision (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG)	: 223 : 5 L : E1 : P001, LP01
- Transport by sea Special provision (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG)	: 223 : 5 L : E1
- Transport by sea Special provision (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) Tank instructions (IMDG)	: 223 : 5 L : E1 : P001, LP01 : IBC03
- Transport by sea Special provision (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG)	: 223 : 5 L : E1 : P001, LP01 : IBC03 : T4
- Transport by sea Special provision (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) EmS-No. (Fire)	: 223 : 5 L : E1 : P001, LP01 : IBC03 : T4 : TP1
- Transport by sea Special provision (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) EmS-No. (Fire) EmS-No. (Spillage)	: 223 : 5 L : E1 : P001, LP01 : IBC03 : T4 : TP1 : F-A
- Transport by sea Special provision (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) EmS-No. (Fire)	: 223 : 5 L : E1 : P001, LP01 : IBC03 : T4 : TP1 : F-A : S-B
- Transport by sea Special provision (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) EmS-No. (Fire) EmS-No. (Spillage) Stowage category (IMDG) MFAG-No	: 223 : 5 L : E1 : P001, LP01 : IBC03 : T4 : TP1 : F-A : S-B : C
<ul> <li>Transport by sea</li> <li>Special provision (IMDG)</li> <li>Limited quantities (IMDG)</li> <li>Excepted quantities (IMDG)</li> <li>Packing instructions (IMDG)</li> <li>IBC packing instructions (IMDG)</li> <li>IBC packing instructions (IMDG)</li> <li>Tank instructions (IMDG)</li> <li>Tank special provisions (IMDG)</li> <li>Tank special provisions (IMDG)</li> <li>EmS-No. (Fire)</li> <li>EmS-No. (Spillage)</li> <li>Stowage category (IMDG)</li> <li>MFAG-No</li> <li>Air transport</li> </ul>	: 223 : 5 L : E1 : P001, LP01 : IBC03 : T4 : TP1 : F-A : S-B : C : 157
<ul> <li>Transport by sea</li> <li>Special provision (IMDG)</li> <li>Limited quantities (IMDG)</li> <li>Excepted quantities (IMDG)</li> <li>Packing instructions (IMDG)</li> <li>IBC packing instructions (IMDG)</li> <li>IBC packing instructions (IMDG)</li> <li>Tank instructions (IMDG)</li> <li>Tank special provisions (IMDG)</li> <li>Tank special provisions (IMDG)</li> <li>EmS-No. (Fire)</li> <li>EmS-No. (Spillage)</li> <li>Stowage category (IMDG)</li> <li>MFAG-No</li> <li>Air transport</li> <li>PCA Excepted quantities (IATA)</li> </ul>	: 223 : 5 L : E1 : P001, LP01 : IBC03 : T4 : TP1 : F-A : S-B : C : 157 : E1
<ul> <li>Transport by sea</li> <li>Special provision (IMDG)</li> <li>Limited quantities (IMDG)</li> <li>Excepted quantities (IMDG)</li> <li>Packing instructions (IMDG)</li> <li>IBC packing instructions (IMDG)</li> <li>IBC packing instructions (IMDG)</li> <li>Tank instructions (IMDG)</li> <li>Tank special provisions (IMDG)</li> <li>Tank special provisions (IMDG)</li> <li>EmS-No. (Fire)</li> <li>EmS-No. (Spillage)</li> <li>Stowage category (IMDG)</li> <li>MFAG-No</li> <li>Air transport</li> <li>PCA Excepted quantities (IATA)</li> <li>PCA Limited quantities (IATA)</li> </ul>	: 223 : 5 L : E1 : P001, LP01 : IBC03 : T4 : TP1 : F-A : S-B : C : 157 : E1 : Y841
<ul> <li>Transport by sea</li> <li>Special provision (IMDG)</li> <li>Limited quantities (IMDG)</li> <li>Excepted quantities (IMDG)</li> <li>Packing instructions (IMDG)</li> <li>IBC packing instructions (IMDG)</li> <li>IBC packing instructions (IMDG)</li> <li>Tank instructions (IMDG)</li> <li>Tank special provisions (IMDG)</li> <li>Tank special provisions (IMDG)</li> <li>EmS-No. (Fire)</li> <li>EmS-No. (Spillage)</li> <li>Stowage category (IMDG)</li> <li>MFAG-No</li> <li>Air transport</li> <li>PCA Excepted quantities (IATA)</li> <li>PCA Limited quantity</li> </ul>	: 223 : 5 L : E1 : P001, LP01 : IBC03 : T4 : TP1 : F-A : S-B : C : 157 : E1
<ul> <li>Transport by sea</li> <li>Special provision (IMDG)</li> <li>Limited quantities (IMDG)</li> <li>Excepted quantities (IMDG)</li> <li>Packing instructions (IMDG)</li> <li>IBC packing instructions (IMDG)</li> <li>IBC packing instructions (IMDG)</li> <li>Tank instructions (IMDG)</li> <li>Tank special provisions (IMDG)</li> <li>EmS-No. (Fire)</li> <li>EmS-No. (Spillage)</li> <li>Stowage category (IMDG)</li> <li>MFAG-No</li> <li>Air transport</li> <li>PCA Excepted quantities (IATA)</li> <li>PCA limited quantity max net quantity (IATA)</li> </ul>	: 223 : 5 L : E1 : P001, LP01 : IBC03 : T4 : TP1 : F-A : S-B : C : 157 : E1 : Y841 : 1L
<ul> <li>Transport by sea</li> <li>Special provision (IMDG)</li> <li>Limited quantities (IMDG)</li> <li>Excepted quantities (IMDG)</li> <li>Packing instructions (IMDG)</li> <li>IBC packing instructions (IMDG)</li> <li>IBC packing instructions (IMDG)</li> <li>Tank instructions (IMDG)</li> <li>Tank special provisions (IMDG)</li> <li>Tank special provisions (IMDG)</li> <li>EmS-No. (Fire)</li> <li>EmS-No. (Spillage)</li> <li>Stowage category (IMDG)</li> <li>MFAG-No</li> <li>Air transport</li> <li>PCA Excepted quantities (IATA)</li> <li>PCA Limited quantity</li> </ul>	: 223 : 5 L : E1 : P001, LP01 : IBC03 : T4 : TP1 : F-A : S-B : C : 157 : E1 : Y841

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CAO packing instructions (IATA)	:	856
CAO max net quantity (IATA)	:	60L
Special provision (IATA)	:	A3
ERG code (IATA)	:	8L
- Inland waterway transport		
Classification code (ADN)	:	C1
Special provisions (ADN)	:	520
Limited quantities (ADN)	:	5 L
Excepted quantities (ADN)	:	E1
Carriage permitted (ADN)	:	Т
Equipment required (ADN)	:	PP, EP
Number of blue cones/lights (ADN)	:	0
- Rail transport		
Classification code (RID)	:	C1
Special provision (RID)		520
Limited quantities (RID)		5L
Excepted quantities (RID)		E1
Packing instructions (RID)	:	P001, IBC03, LP01, R001
Mixed packing provisions (RID)		MP19
Portable tank and bulk container instructions (RID)	:	Τ4
Portable tank and bulk container special provisions (RID)	:	TP1
Tank codes for RID tanks (RID)	:	L4BN
Transport category (RID)	:	3
Special provisions for carriage – Packages (RID)	:	W12
Colis express (express parcels) (RID)	:	CE8
Hazard identification number (RID)	:	80

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

Not applicable

**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)

### Safety Data Sheet

12th Ordinance Implementing the Federal : Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance) Immission Control Act - 12.BImSchV

### Denmark

Recommendations Danish Regulation : Young peo

: 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:

Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1			
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1			
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2			
Skin Corr. 1B				
Skin Irrit. 2				
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation			
H314	Causes severe skin burns and eye damage Causes skin irritation			
H315				
H319	Causes serious eye irritation			
H335	May cause respiratory irritation			
H400	Very toxic to aquatic life			
H410	Very toxic to aquatic life with long lasting effects			

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