### CESIUM (CS) ICP STANDARD SOLUTION 10 GM/L IN DILUTE HNO3 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	: I120N		
1.2. Relevant identified uses of th	e 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 against			
No additional information available			
1.3. Details of the supplier of the safety data sheet			
SPAN LAB			
UNIT NO. 14,SKY INDUSTRIAL ESTATE,WALIV, VASAI (E)			
401208 Mumbai - INDIA 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, H315 Category 2 Serious eye damage/eye H319 irritation, Category 2

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)	: H315 - Causes skin irritation H319 - Causes serious eye irritation
Precautionary statements (CLP)	: 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 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
CESIUM NITRATE AR 99.5%	(CAS No) 7789-18-6	1 - 5	Ox. Sol. 1, H271 Eye Irrit. 2, H319 Skin Irrit. 2, H315 STOT SE 3, H335
Nitric acid	(CAS No) 7697-37-2 (EC no) 231-714-2 (EC index no) 007-004-00-1	1 - 5	Ox. Liq. 1, H271 Skin Corr. 1A, H314

Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1.	Description of first aid measures	5	
First-aid	measures after inhalation		Assure fresh air breathing. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

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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	effects, both acute and delayed
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	: Dry powder. Carbon dioxide. Foam. Water spray.
Unsuitable extinguishing media	: Do not use a heavy water stream.
Chourable extinguishing media	
5.2. Special hazards arising from the	e substance or mixture
No additional information available	
F.O. Ashina fan finsfinkten	
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 Emergency procedures	: Evacuate unnecessary personnel.
Emergency procedures	. Evacuate unnecessary personner.
6.1.2. For emergency responders	
Protective equipment	: Use personal protective equipment as required.
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for contai	nment and cleaning up
Methods for cleaning up	: Collect spillage. On land, sweep or shovel into suitable containers.
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	: Avoid contact with skin and eyes. Do not breathe vapours. Provide good ventilation
r rooddione for oare nariding	in process area to prevent formation of vapour.
Hygiene measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
7.2. Conditions for safe storage, inc	luding any incompatibilities
Storage conditions	: Store in a well-ventilated place. Keep container tightly closed. Store in original
<b>0</b>	container.
7.3. Specific end use(s)	
No additional information available	

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

Hand protection:protective glovesEye protection:Chemical goggles or safety glassesSkin and body protection:Wear suitable protective clothingRespiratory protection:Wear respiratory protectionSECTION 9: Physical and chemical propertiesPhysical and chemical propertiesOduritiesColouriesColouriesOdurities <td c<="" th=""></td>	
Skin and body protection       : Wear suitable protective clothing         Respiratory protection       : Wear respiratory protection         SECTION 9: Physical and chemical properties         9.1. Information on basic physical arrow chemical properties         Physical state       : Liquid         Colour       : Colourless.         Odour       : No data available         Odour threshold       : No data available         pH       : No data available         Relative evaporation rate (butylacetate=)       : No data available         Melting point       : No data available         Freezing point       : No data available         Filesh point       : No data available         Flash point       : No data available         Flas	
Respiratory protection       : Wear respiratory protection         SECTION 9: Physical and chemical properties         9.1. Information on basic physical and chemical properties         Physical state       : Liquid         Colour       : Colourless.         Odour       : No data available         Odour threshold       : No data available         pH       : No data available         Relative evaporation rate (butylacetate=1)       : No data available         Freezing point       : No data available         Foreing point       : No data available         Falsh point       : No data available         Flash point       : No data available         Flash point       : No data available         Auto-ignition temperature       : No data available	
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Flash point       : No data available         Auto-ignition temperature       : 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			
0.2 Other information				
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. Air contact. Moisture.				
10.5. Incompatible materials				
No additional information available				
10.6. Hazardous decomposition products				
No additional information available				
SECTION 11: Toxicological information	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	: Not classified			
exposure)				
Specific target organ toxicity (repeated	: Not classified			
exposure)				
Aspiration hazard	: 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	litional information available	

12.4. **Mobility in soil** 

No additional information available

#### **Results of PBT and vPvB assessment** 12.5.

No additional information available

12.6.	Other adverse effects			
	ditional information available			
SECT	ON 13: Disposal considerations			
13.1.	Waste treatment methods			
No ad	ditional information available			
SECT	ON 14: Transport information			
In acc	ordance with ADR / RID / IMDG / IATA	/ ADN		
14.1.	UN number			
		0004		

UN-No. (ADR)	: 3264
UN-No. (IMDG)	: 3264
UN-No.(IATA)	: 3264
UN-No.(ADN)	: 3264
UN-No. (RID)	: 3264

14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
Proper Shipping Name (IMDG)	: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
Proper Shipping Name (IATA)	: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
Proper Shipping Name (ADN)	: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
Proper Shipping Name (RID)	: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
Transport document description (ADR)	: UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., 8, III, (E)
Transport document description (IMDG)	: UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., 8, III
Transport document description (IATA)	: UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., 8, III
Transport document description (ADN)	: UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., 8, III
Transport document description (RID)	: UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., 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
	<u>^</u>
	8
ΙΑΤΑ	
Transport hazard class(es) (IATA)	: 8
Hazard labels (IATA)	: 8
	8
	₩.
ADN	
Transport hazard class(es) (ADN)	: 8
Danger labels (ADN)	: 8
	8
RID	
Transport hazard class(es) (RID)	: 8
Danger labels (RID)	: 8
14.4. Packing group	
Packing group (ADR)	: 111
Packing group (IMDG)	: 111
Packing group (IATA)	: 111
/	

: 111

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Packing group (RID)	: 111
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) : 274 Limited quantities (ADR) : 5L Excepted quantities (ADR) : E1 : P001, IBC03, LP01, R001 Packing instructions (ADR) Mixed packing provisions (ADR) : MP19 Portable tank and bulk container : T7 instructions (ADR) Portable tank and bulk container special : TP1, TP28 provisions (ADR) Tank code (ADR) : L4BN Vehicle for tank carriage : AT Transport category (ADR) : 3 Special provisions for carriage - Packages : V12 (ADR) Hazard identification number (Kemler No.) : 80 Orange plates 80 3264 : E Tunnel restriction code (ADR) EAC code : 2X APP code : B - Transport by sea Special provision (IMDG) : 223, 274 : 5 L Limited quantities (IMDG) Excepted quantities (IMDG) : E1 Packing instructions (IMDG) : P001, LP01 IBC packing instructions (IMDG) : IBC03 Tank instructions (IMDG) : T7 : TP1, TP28 Tank special provisions (IMDG)

: F-A

: S-B

: SW2

: 154

: E1

: 1L

: 852

: Y841

: A

EmS-No. (Fire)

MFAG-No

- Air transport

EmS-No. (Spillage)

Stowage category (IMDG)

Stowage and handling (IMDG)

PCA Excepted quantities (IATA)

PCA limited quantity max net quantity

PCA Limited quantities (IATA)

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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		
Classification code (ADN)	:	C1
Special provisions (ADN)	:	274
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)	:	274
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)	:	Т7
Portable tank and bulk container special	:	TP1, TP28
provisions (RID)		
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

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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. BlmSchV (Hazardous Incident Ordinance)

15.2. Chemical safety assessment

No additional information available

#### **SECTION 16: Other information**

#### Full text of H- and EUH-phrases:

Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Ox. Liq. 1	Oxidising Liquids, Category 1	
Ox. Sol. 1	Oxidising Solids, Category 1	
Skin Corr. 1A	Skin corrosion/irritation, Category 1A	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation	
H271	May cause fire or explosion; strong oxidiser	
H314	Causes severe skin burns and eye damage	
H315	Causes skin irritation	
H319	Causes serious eye irritation	
H335	May cause respiratory irritation	

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