### MAGNESIUM (MG) ICP STANDARD SOLUTION 10 GM/L IN DILUTE HNO3 TRACEABLE TO NIST MSDS

### CAS No: MSDS



### MATERIAL SAFETY DATA SHEET (MSDS)

1.1. Product identifier         Product form       :         Mixture       :         :       :         Product code       :         1.2. Relevant identified uses of the substance or mixture and uses advised against         1.2. Relevant identified uses         Use of the substance/mixture       :         Laboratory chemicals, Manufacture of substances         1.2. Uses advised against         No additional information available         1.3. Details of the supplier of the safety data sheet         Labores Fine Chem Industries         1st Floor, Above Bank of India, Guru Vihar, Rahon Road,         Ludhiana Pb. (141007)         +91 931677775, +91 7707855700         sales@labogens.com         1.4. Emergency telephone number         Emergency number         Emergency number         :       +91 7707855700 (9:00am - 6:00 pm)		
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2.1. Classification of the substance or mixture		
Classification according to Regulation (EC) No. 1272/2008 [CLP]		
Oxidising Liquids, H272		
Category 2 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]

GHS03 GHS07
: Danger
: H272 - May intensify fire; oxidiser H315 - Causes skin irritation H319 - Causes serious eye irritation
<ul> <li>P220 - Keep/Store away from clothing//combustible materials P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing</li> </ul>

#### 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
MAGNESIUM NITRATE AR (HEXAHYDRATE) 99%	(CAS No) 13446-18-9	10 - 15	Not classified
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. Ge 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 an	nd 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 n	nedical 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 a heavy water stream.
5.2. Special hazards arising from	the substance or mixture
Fire hazard	: May intensify fire; oxidiser.
5.3. Advice for firefighters	
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release measu	ures
6.1. Personal precautions, protec	tive equipment and emergency procedures
6.1.1. For non-emergency personne	əl
Emergency procedures	: Evacuate unnecessary personnel.
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 con	tainment and cleaning up
	tainment and cleaning up : On land, sweep or shovel into suitable containers. Collect spillage.
Methods for cleaning up	
Methods for cleaning up         6.4.       Reference to other sections         No additional information available	
Methods for cleaning up         6.4.       Reference to other sections         No additional information available	
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	: On land, sweep or shovel into suitable containers. Collect spillage.
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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	<ul> <li>: On land, sweep or shovel into suitable containers. Collect spillage.</li> <li>: Avoid contact with skin and eyes. Do not breathe vapours.</li> <li>: Wash hands and other exposed areas with mild soap and water before eating,</li> </ul>
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, i	<ul> <li>: On land, sweep or shovel into suitable containers. Collect spillage.</li> <li>: Avoid contact with skin and eyes. Do not breathe vapours.</li> <li>: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.</li> </ul>
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, i Storage conditions	<ul> <li>: On land, sweep or shovel into suitable containers. Collect spillage.</li> <li>: Avoid contact with skin and eyes. Do not breathe vapours.</li> <li>: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.</li> </ul>
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, i         Storage conditions	<ul> <li>: On land, sweep or shovel into suitable containers. Collect spillage.</li> <li>: Avoid contact with skin and eyes. Do not breathe vapours.</li> <li>: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.</li> </ul>

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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	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
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 reacti	ons
No additional information available	
10.4. Conditions to avoid	
Direct sunlight. Overheating. 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	
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
Aspiration hazard	

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SECTION 12: Ecological information
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#### 12.1. Toxicity

No additional information available

12.2.	Persistence and degradability
No add	itional information available
12.3.	Bioaccumulative potential
No add	itional information available
12.4.	Mobility in soil
No add	itional information available
12.5.	Results of PBT and vPvB assessment
No add	itional information available

12.6.	Other adverse effects
No addi	tional information available
SECTIO	ON 13: Disposal considerations
13.1.	Waste treatment methods

No additional information available

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number	
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, MARINE POLLUTANT
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) Danger labels (ADR)



#### IMDG

Transport hazard class(es) (IMDG) Danger labels (IMDG)



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#### ΙΑΤΑ

Transport hazard class(es) (IATA) Hazard labels (IATA)

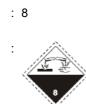


#### ADN

Transport hazard class(es) (ADN) Danger labels (ADN)

#### RID

Transport hazard class(es) (RID) Danger labels (RID)



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

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Special precautions for user

14.6.

Packing group (RID)	: 111	
14.5. Environmental hazards		
Dangerous for the environment	: No	
Marine pollutant	: Yes (IMDG only)	
Other information	: No supplementary information available	

14.0. Special precautions for user	
- Overland transport	
Classification code (ADR)	: C1
Special provision (ADR)	: 274
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	: T7
instructions (ADR)	
Portable tank and bulk container special provisions (ADR)	: TP1, TP28
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
	3264
Tunnel restriction code (ADR)	: E
EAC code	: 2X
APP code	: B
- Transport by sea	
Special provision (IMDG)	: 223, 274
Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P001, LP01
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T7
Tank special provisions (IMDG)	: TP1, TP28
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-B
Stowage category (IMDG)	: A
Stowage and handling (IMDG)	: SW2
MFAG-No	: 154
- 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

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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)	:	Τ7
Portable tank and bulk container special provisions (RID)	:	TP1, TP28
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

### Safety Data Sheet

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)

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. Liq. 2	Oxidising Liquids, Category 2
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H271	May cause fire or explosion; strong oxidiser
H272	May intensify fire; oxidiser
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H319	Causes serious eye 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