LEAD AAS STANDARD SOLUTION 1000 MG/L PB IN DILUTED HNO3 TRACEABLE TO NIST MSDS



CAS-No.: MSDS

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identificatio	n of the substance/mixture and of the company/undertaking	
1.1. Product identifie		
Product form	: Mixture	
Product code	: A290N	
1.2. Relevant identif	ied uses of the substance or mixture and uses advised against	
1.2.1. Relevant identif	ied uses	
Use of the substance/mixt	ure : Laboratory chemicals	
1.2.2. Uses advised ag	-	
No additional information	available	
1.3. Details of the su	ipplier of the safety data sheet	
Labogens Fine Chem Indu		
1st Floor, Above Bank of	India, Guru Vihar , Rahon Road,	
Ludhiana Pb. (141007) +91 9316777775, +91 770	17855700	
sales@labogens.com - \		
1.4. Emergency tele	phone number	
Emergency number	: +91 7707855700 (9:00am - 6:00 pm)	
SECTION 2: Hazards ide	ntification	
2.1. Classification of	f the substance or mixture	
Classification according	to Regulation (EC) No. 1272/2008 [CLP]	
Corrosive to metals,	H290	
Category 1	1230	
Skin corrosion/irritation,	H315	
Category 2 Serious eye damage/eye	H319	
irritation, Category 2		
Hazardous to the aquatic	H412	
environment — Chronic		

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

Hazard, Category 3

Safety Data Sheet

2.2. Label elements

Labelling according to Regulation (Hazard pictograms (CLP)	EC) No. 1272/2008 [CLP] : GHS05
Signal word (CLP) Hazard statements (CLP)	 Warning H290 - May be corrosive to metals. H315 - Causes skin irritation. H319 - Causes serious eye irritation. H412 - Harmful to aquatic life with long lasting effects. H310 - Fatal in contact with skin.
Precautionary statements (CLP)	 P280 - Wear protective clothing, protective gloves, eye protection, face protection. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a POISON CENTER or doctor.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1.	Substances	
Not ap	plicable	

3.2. Mixtures

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
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
LEAD NITRATE AR 99.5% substance listed as REACH Candidate (Lead dinitrate)	(CAS-No.) 10099-74-8	0.01 - 1	Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400

Full text of H-statements: see section 16

Safety Data Sheet

SECTION 4: First aid measures

4.1. Description of first aid measures	
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.
First-aid measures after skin contact	: Wash with plenty of 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.
4.2. Most important symptoms and e	effects, both acute and delayed
Symptoms/effects after skin contact	: Causes skin irritation. Fatal in contact with skin.
Symptoms/effects after eye contact	: Causes serious eye irritation.
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.
5.0 On a sight because a minimum forms the	
5.2. Special hazards arising from the	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	S
6.1. Personal precautions, protective	e equipment and emergency procedures
	equipment and emergency procedures
6.1.1. For non-emergency personnel	
••••	
Emergency procedures	: Evacuate unnecessary personnel.
••••	: Evacuate unnecessary personnel.
Emergency procedures	 Evacuate unnecessary personnel. Use personal protective equipment as required.
Emergency procedures 6.1.2. For emergency responders Protective equipment	
Emergency procedures 6.1.2. For emergency responders	: Use personal protective equipment as required.
Emergency procedures 6.1.2. For emergency responders Protective equipment	: Use personal protective equipment as required.
Emergency procedures 6.1.2. For emergency responders Protective equipment Emergency procedures	: Use personal protective equipment as required.: Stop release. Stop leak if safe to do so.
Emergency procedures 6.1.2. For emergency responders Protective equipment Emergency procedures 6.2. Environmental precautions	 Use personal protective equipment as required. Stop release. Stop leak if safe to do so.
Emergency procedures 6.1.2. For emergency responders Protective equipment Emergency procedures 6.2. Environmental precautions Very toxic to aquatic life with long lasting ef	 Use personal protective equipment as required. Stop release. Stop leak if safe to do so.
Emergency procedures 6.1.2. For emergency responders Protective equipment Emergency procedures 6.2. Environmental precautions Very toxic to aquatic life with long lasting ef 6.3. Methods and material for contai Methods for cleaning up	 Use personal protective equipment as required. Stop release. Stop leak if safe to do so.
Emergency procedures 6.1.2. For emergency responders Protective equipment Emergency procedures 6.2. Environmental precautions Very toxic to aquatic life with long lasting ef 6.3. Methods and material for contai Methods for cleaning up 6.4. Reference to other sections	 Use personal protective equipment as required. Stop release. Stop leak if safe to do so.
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Emergency procedures 6.1.2. For emergency responders Protective equipment Emergency procedures 6.2. Environmental precautions Very toxic to aquatic life with long lasting ef 6.3. Methods and material for contai Methods for cleaning up 6.4. Reference to other sections No additional information available SECTION 7: Handling and storage	 Use personal protective equipment as required. Stop release. Stop leak if safe to do so.
Emergency procedures 6.1.2. For emergency responders Protective equipment Emergency procedures 6.2. Environmental precautions Very toxic to aquatic life with long lasting ef 6.3. Methods and material for contai 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	 Use personal protective equipment as required. Stop release. Stop leak if safe to do so. fects. nment and cleaning up On land, sweep or shovel into suitable containers. Collect spillage.

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7.2.	Conditions for safe storage,	including any incompatibilities
Storag	e conditions	: Store in a well-ventilated place. Keep container tightly closed.
7.3.	Specific end use(s)	
No ad	ditional information available	
SECT	ION 8: Exposure controls/perse	onal 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	: [In case of inadequate ventilation] wear respiratory protection.
SECTION 9: Physical and chemical prop	erties
9.1. Information on basic physical a	nd chemical properties
Physical state	: Liquid
Colour	: 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

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Log Pow : No data available Viscosity, kinematic : No data available Viscosity, dynamic : No data available Explosive properties : No data available Cxidising properties : No data available Explosive limits : No data available 9.2. Other information No adata available SECTION 10: Stability and reactivity 10.1. Reactivity No additional information available SECTION 10: Stability and reactivity 10.2. Chemical stability Stable under normal conditions. Stable under normal conditions. 10.3. Possibility of hazardous reactions No additional information available Stable under normal conditions. 10.4. Conditions to avoid Direct sunlight. Over the aterials No additional information available Stable 10.5. Incompatible materials No additional information available Stable 10.6. Hazardous decomposition products No additional information available Stact toxicity SECTION 11: Toxicological information Stact toxicity Stact toxicity	
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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	
STOT-single exposure : Not classified	
STOT-repeated exposure : 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 assessment

Component	
LEAD NITRATE AR 99.5% (10099-74-8)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects	12.6. Other adverse effects		
No additional information available			
SECTION 13: Disposal considera	ions		
13.1. Waste treatment method	<u>خ</u>		
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, ACID	IC, INORGANIC, N.O.S.	
Proper Shipping Name (IMDG)	: CORROSIVE LIQUID, ACID	IC, INORGANIC, N.O.S.	
Proper Shipping Name (IATA)	me (IATA) : Corrosive liquid, acidic, inorganic, n.o.s.		
Proper Shipping Name (ADN) : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.			
Proper Shipping Name (RID)	roper Shipping Name (RID) : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.		
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ransport document description (ADR)	: UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., 8, III, (E)		
ransport document description (IMDG)	: UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., 8, III		
ransport document description (IATA)	: UN 3264 Corrosive liquid, acidic, inorganic, n.o.s., 8, III		
ransport document description (ADN)	: UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., 8, III		
ransport document description (RID)	: UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., 8, III		
4.3. Transport hazard class(es)			
DR			
ransport hazard class(es) (ADR)	: 8		
anger labels (ADR)	: 8		
IDG			
ransport hazard class(es) (IMDG)	: 8		
anger labels (IMDG)	: 8		
	8		
	<u>^</u>		
ransport hazard class(es) (IATA)	: 8 : 8		
azard labels (IATA)	. 0		
DN			
ransport hazard class(es) (ADN) anger labels (ADN)	: 8 : 8		
ID			
ransport hazard class(es) (RID)	: 8 : 8		
anger labels (RID)	. 0		

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14.4. Packing group	
Packing group (ADR)	: III
Packing group (IMDG)	: III
Packing group (IATA)	: III
Packing group (ADN)	: III
Packing group (RID)	: III
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 provisions (ADR)	:	274
	Limited quantities (ADR)	:	51
	Excepted quantities (ADR)	:	E1
	Packing instructions (ADR)	:	P001, IBC03, LP01, R001
	Mixed packing provisions (ADR)	:	MP19
	Portable tank and bulk container instructions (ADR)	:	Τ7
	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	:	80
			3264
	Tunnel restriction code (ADR)		E
	EAC code		2X
	APP code	:	В
	- Transport by sea		
	Special provisions (IMDG)	:	223, 274
	Packing instructions (IMDG)	:	P001, LP01
	IBC packing instructions (IMDG)	:	IBC03
	Tank instructions (IMDG)	:	Τ7
	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
	Properties and observations (IMDG)	:	Causes burns to skin, eyes and mucous membranes.
	MFAG-No	:	154
	- Air transport		
	PCA Excepted quantities (IATA)	:	E1
_	www.labogens.com		Version: 1.0. 14/10/2016

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earery Bata encor	
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 provisions (IATA)	: A3, A803
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)	: T
Equipment required (ADN)	: PP, EP
Number of blue cones/lights (ADN)	: 0
- Rail transport	
Classification code (RID)	: C1
Special provisions (RID)	: 274
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P001, IBC03, LP01, R001
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T7
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 REACH substances with Annex XVII restrictions

Contains a substance on the REACH candidate list in concentration $\geq 0.1\%$ or with a lower specific limit: Lead dinitrate (CAS 10099-74-8)

Contains no REACH Annex XIV substances

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15.1.2. National regulations

Germany	
Reference to AwSV	: Water hazard class (WGK) 3, severe hazard 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)
Netherlands	
SZW-lijst van kankerverwekkende stoffen	: None of the components are listed
SZW-lijst van mutagene stoffen	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: None of the components are listed
Denmark	
Recommendations Danish Regulation	: Young people below the age of 18 years are not allowed to use the product
	Pregnant/breastfeeding women working with the product must not be in direct contact with the product

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:

Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Irrit. 2 Serious eye damage/eye irritation, Category 2	
Met. Corr. 1	Corrosive to metals, Category 1
Ox. Liq. 1	Oxidising Liquids, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H271	May cause fire or explosion; strong oxidiser.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.

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H400	Very toxic to aquatic life.
H412	Harmful 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