



LEAD (II) NITRATE CPECTROSOL® 0.5M (1N) STANDARD SOLUTION IN ACCORDANCE WITH NIST

MATERIAL SAFETY DATA SHEET SDS/MSDS

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Lead (II) Nitrate CPECTROSOL® 0.5M (1N) Standard Solution In accordance with NIST

Product Code : 860140

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Industrial & for professional use only.

1.3 Details of the supplier of the safety data sheet

Company : Central Drug House (P) Ltd

7/28 Vardaan House Ansari Road Daryaganj New Delhi-110002

INDIA

Telephone : +91 11 49404040

Email : <u>care@cdhfinechemical.com</u>

1.4 Emergency telephone number

Emergency Phone # : +91 11 49404040 (9:00am - 6:00 pm) [Office hours]

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Repr.Cat.2; R61 Repr.Cat.3;

R62 Xn; R20/22 N; R51/53 R33

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects No additional information available

2.2. Label elements

Labelling according to Directive 67/548/EEC or 1999/45/EC

Hazard symbols





2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Directive 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Water	(CAS-No.) 7732-18- 5 (EC-No.) 231-791-2	75 - 99	Not classified	Not classified
Lead (II) nitrate substance listed as REACH Candidate (Lead dinitrate)	(CAS-No.) 10099- 74-8 (EC-No.) 233-245-9 (EC Index-No.) 082001-00-6	15 - 25	Repr.Cat.1; R61 Repr.Cat.3; R62 Xn; R20/22 N; R50/53 R33	Repr. 1A, H360D Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Oral), H302 Repr. 2, H361f Aquatic Acute 1, H400 Aquatic Chronic 1, H410 STOT RE 2, H373

Full text of R- and H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Give oxygen or

artificial respiration if necessary.

First-aid measures after skin contact : Wash skin with plenty of water. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously

with water for several minutes. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth out with water. If you feel unwell, seek medical advice.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects : May damage fertility or the unborn child. May cause damage to organs through

prolonged or repeated exposure.

Symptoms/effects after inhalation : Harmful if inhaled.
Symptoms/effects after ingestion : Harmful if swallowed.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).

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.

Explosion hazard : Heating may cause a fire or explosion.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Avoid contact with skin, eyes and clothing.

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 containment and cleaning up

Methods for cleaning up : Clean contaminated surfaces with an excess of water.

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.

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, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep container tightly closed.

7.3. Specific end use(s)

No additional information available

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 properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Colour : Clear Colorless.

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

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 reactions

No additional information available

10.4. Conditions to avoid

Direct sunlight. Heat. Overheating.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Irritation : Not classified
Corrosivity : Not classified
Sensitisation : Not classified
Repeated dose toxicity : Not classified
Carcinogenicity : Not classified
Mutagenicity : Not classified
Toxicity for reproduction : Not classified

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 (II) nitrate (10099-74-8)

This substance/mixture does not meet the PBT criteria of REACH regulation, annex

XII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

No additional information availabl

SECTION 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) : 3122 UN-No. (IMDG) : 3122 UN-No. (IATA) : 3122 UN-No. (ADN) : 3122 UN-No. (RID) : 3122

14.2. UN proper shipping name

Proper Shipping Name (ADR) : TOXIC LIQUID, OXIDIZING, N.O.S.

Proper Shipping Name (IMDG) : TOXIC LIQUID, OXIDIZING, N.O.S.

Proper Shipping Name (IATA) : Toxic liquid, oxidizing, n.o.s.

Proper Shipping Name (ADN) : TOXIC LIQUID, OXIDIZING, N.O.S.
Proper Shipping Name (RID) : TOXIC LIQUID, OXIDIZING, N.O.S.

Transport document description (ADR) : UN 3122 TOXIC LIQUID, OXIDIZING, N.O.S., 6.1 (5.1), II, (D/E),

ENVIRONMENTALLY HAZARDOUS

Transport document description (IMDG) : UN 3122 TOXIC LIQUID, OXIDIZING, N.O.S., 6.1 (5.1), II, MARINE

POLLUTANT/ENVIRONMENTALLY HAZARDOUS

Transport document description (IATA) : UN 3122 Toxic liquid, oxidizing, n.o.s., 6.1, II, ENVIRONMENTALLY HAZARDOUS Transport document description (ADN) : UN 3122 TOXIC LIQUID, OXIDIZING, N.O.S., 6.1 (5.1), II, ENVIRONMENTALLY

HAZARDOUS

Transport document description (RID) : UN 3122 TOXIC LIQUID, OXIDIZING, N.O.S., 6.1 (5.1), II, ENVIRONMENTALLY

HAZARDOUS

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 6.1 (5.1)
Danger labels (ADR) : 6.1, 5.1



IMDG

Transport hazard class(es) (IMDG) : 6.1 (5.1)





Danger labels (IMDG)

IATA

Transport hazard class(es) (IATA) : 6.1 (5.1) Hazard labels (IATA) : 6.1, 5.1



ADN

Transport hazard class(es) (ADN) : 6.1 (5.1)
Danger labels (ADN) : 6.1, 5.1



RID

Transport hazard class(es) (RID) : 6.1 (5.1)
Danger labels (RID) : 6.1, 5.1



Packing instructions (ADR) P001, IBC02

Mixed packing provisions (ADR) : MP15
Tank code (ADR) : L4BH

Tank special provisions (ADR) : TU15, TE19

Vehicle for tank carriage : AT

14.4. Packing group

Packing group (ADR) : II

Packing group (IMDG) : II

Packing group (IATA) : II

Packing group (ADN) : II

Packing group (RID) : II

14.5. Environmental hazards

Dangerous for the environment : Yes

Marine pollutant : Yes

Other information : No supplementary information available

14.6. Special precautions for user

- Overland transport

Classification code (ADR) : TO1

: 274 Special provisions (ADR) Limited quantities (ADR) : 100ml Excepted quantities (ADR) : E4 Transport category (ADR) : 2

Special provisions for carriage - Loading,

unloading and handling (ADR)

Special provisions for carriage - Operation : S9, S19

(ADR)

Hazard identification number (Kemler No.) : 65

: CV13, CV28

65

Orange plates

: D/E Tunnel restriction code (ADR) EAC code : 2WE APP code : B

- Transport by sea

Special provisions (IMDG) : 274 Packing instructions (IMDG) : P001 IBC packing instructions (IMDG) : IBC02 EmS-No. (Fire) : F-A EmS-No. (Spillage) : S-Q Stowage category (IMDG) : C

Properties and observations (IMDG) : Toxic if swallowed, by skin contact or by inhalation.

MFAG-No : 142

- Air transport

: E4 PCA Excepted quantities (IATA) PCA Limited quantities (IATA) : Y641 PCA limited quantity max net quantity : 1L

(IATA)

PCA packing instructions (IATA) : 653 PCA max net quantity (IATA) : 1L : 659 CAO packing instructions (IATA) : 5L CAO max net quantity (IATA) Special provisions (IATA) : A4, A137 ERG code (IATA) : 6X

- Inland waterway transport

Classification code (ADN) : TO1 Special provisions (ADN) : 274, 802 : 100 ml Limited quantities (ADN) Excepted quantities (ADN) : E4

Equipment required (ADN) : PP, EP, TOX, A

: VE02 Ventilation (ADN) Number of blue cones/lights (ADN) : 2

- Rail transport

Classification code (RID) : TO1 Special provisions (RID) : 274 : E4 Excepted quantities (RID)

Packing instructions (RID) : P001, IBC02

: MP15 Mixed packing provisions (RID) Tank codes for RID tanks (RID) L4BH Special provisions for RID tanks (RID) : TU15 Transport category (RID) : 2

.

Special provisions for carriage - Loading,

unloading and handling (RID)

: CW13, CW28, CW31

Colis express (express parcels) (RID) : CE5 Hazard identification number (RID) : 65

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 ≥ 0.1% or with a lower specific limit: Lead dinitrate (EC 233-245-9, CAS 10099-74-8)

Contains no REACH Annex XIV substances

15.1.2. National regulations

Germany

Reference to AwSV : Water hazard class (WGK) 3, Highly 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)

Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed : None of the components are listed

voortplanting giftige stoffen - Borstvoeding

NIET-limitatieve lijst van voor de voortplanting giftige stoffen –

Vruchtbaarheid

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling

: None of the components are listed

: 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

The requirements from the Danish Working Environment Authorities regarding work

with carcinogens must be followed during use and disposal

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of R-. 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 1 Hazardous to the aquatic environment — Chronic Hazard, Category 1 Repr. 1A Reproductive toxicity, Category 1A Repr. 2 Reproductive toxicity, Category 2 STOT RE 2 Specific target organ toxicity — Repeated exposure, Category 2 Harmful if swallowed. H332 Harmful if inhaled. H360D May damage the unborn child. H361f Suspected of damaging fertility. H373 May cause damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. R20/22 Harmful by inhalation and if swallowed R33 Danger of cumulative effects R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment R61 May cause harm to the unborn child R62 Possible risk of impaired fertility N Dangerous for the environment Xn Harmful	Full text of R-, H- and EUH-statements:				
Aquatic Acute 1 Hazardous to the aquatic environment — Acute Hazard, Category 1 Aquatic Chronic 1 Hazardous to the aquatic environment — Chronic Hazard, Category 1 Repr. 1A Reproductive toxicity, Category 1A Repr. 2 Reproductive toxicity, Category 2 STOT RE 2 Specific target organ toxicity — Repeated exposure, Category 2 Harmful if swallowed. H332 Harmful if inhaled. H360D May damage the unborn child. H361f Suspected of damaging fertility. H373 May cause damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. R20/22 Harmful by inhalation and if swallowed R33 Danger of cumulative effects R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment R61 May cause harm to the unborn child R62 Possible risk of impaired fertility N Dangerous for the environment	Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4			
Aquatic Chronic 1 Hazardous to the aquatic environment — Chronic Hazard, Category 1 Repr. 1A Reproductive toxicity, Category 1A Repr. 2 Reproductive toxicity, Category 2 STOT RE 2 Specific target organ toxicity — Repeated exposure, Category 2 H302 Harmful if swallowed. H332 Harmful if inhaled. H360D May damage the unborn child. H361f Suspected of damaging fertility. H373 May cause damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. R20/22 Harmful by inhalation and if swallowed R33 Danger of cumulative effects R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment R61 May cause harm to the unborn child R62 Possible risk of impaired fertility N Dangerous for the environment	Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4			
Repr. 1A Reproductive toxicity, Category 1A Repr. 2 Reproductive toxicity, Category 2 STOT RE 2 Specific target organ toxicity — Repeated exposure, Category 2 H302 Harmful if swallowed. H332 Harmful if inhaled. H360D May damage the unborn child. H361f Suspected of damaging fertility. H373 May cause damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. R20/22 Harmful by inhalation and if swallowed R33 Danger of cumulative effects R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment R61 May cause harm to the unborn child R62 Possible risk of impaired fertility N Dangerous for the environment	Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1			
Repr. 2 Reproductive toxicity, Category 2 STOT RE 2 Specific target organ toxicity — Repeated exposure, Category 2 H302 Harmful if swallowed. H332 Harmful if inhaled. H360D May damage the unborn child. H361f Suspected of damaging fertility. H373 May cause damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. R20/22 Harmful by inhalation and if swallowed R33 Danger of cumulative effects R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment R61 May cause harm to the unborn child R62 Possible risk of impaired fertility N Dangerous for the environment	Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1			
STOT RE 2 Specific target organ toxicity — Repeated exposure, Category 2 H302 Harmful if swallowed. H332 Harmful if inhaled. H360D May damage the unborn child. H361f Suspected of damaging fertility. H373 May cause damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. R20/22 Harmful by inhalation and if swallowed R33 Danger of cumulative effects R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment R61 May cause harm to the unborn child R62 Possible risk of impaired fertility N Dangerous for the environment	Repr. 1A	Reproductive toxicity, Category 1A			
H302 Harmful if swallowed. H332 Harmful if inhaled. H360D May damage the unborn child. H361f Suspected of damaging fertility. H373 May cause damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. R20/22 Harmful by inhalation and if swallowed R33 Danger of cumulative effects R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment R61 May cause harm to the unborn child R62 Possible risk of impaired fertility N Dangerous for the environment	Repr. 2	Reproductive toxicity, Category 2			
H332 Harmful if inhaled. H360D May damage the unborn child. H361f Suspected of damaging fertility. H373 May cause damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. R20/22 Harmful by inhalation and if swallowed R33 Danger of cumulative effects R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment R61 May cause harm to the unborn child R62 Possible risk of impaired fertility N Dangerous for the environment	STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2			
H360D May damage the unborn child. H361f Suspected of damaging fertility. H373 May cause damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. R20/22 Harmful by inhalation and if swallowed R33 Danger of cumulative effects R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment R61 May cause harm to the unborn child R62 Possible risk of impaired fertility N Dangerous for the environment	H302	Harmful if swallowed.			
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R61 May cause harm to the unborn child R62 Possible risk of impaired fertility N Dangerous for the environment	R50/53				
R62 Possible risk of impaired fertility N Dangerous for the environment	R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment			
N Dangerous for the environment	R61	May cause harm to the unborn child			
	R62	Possible risk of impaired fertility			
Xn Harmful	N	Dangerous for the environment			
	Xn	Harmful			

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Central Drug House (P) Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.cdhfinechemical.com for additional terms and conditions of sale.