CAS-No.: 10099-74-8 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

:

CAS-No. : 10099-74-8 Product code : R170A

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

1.2.1. Relevant identified uses

Industrial/Professional use spec : Industrial

For professional use only

Use of the substance/mixture : Laboratory chemicals

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

LOBA CHEMIE PVT.LTD.

107 Wode House Road, Jehangir Villa, Colaba

400005 Mumbai - INDIA

T +91 22 6663 6663 - F +91 22 6663 6699 <u>info@lobachemie.com</u> - <u>www.lobachemie.com</u>

1.4. Emergency telephone number

Emergency number : + 91 22 6663 6663 (9:00am - 6:00 pm)

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

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2.2. Label elements

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

Hazard symbols





T - Toxic

N -Dangerous for the environment

R-phrases

: R20/22 - Harmful by inhalation and if swallowed

R33 - Danger of cumulative effects

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

S-phrases

: S4 - Keep away from living quarters

S28 - After contact with skin, wash immediately with plenty of ... (to be specified by

the manufacturer)

S35 - This material and its container must be disposed of in a safe way

S36/37 - Wear suitable protective clothing and gloves

S38 - In case of insufficient ventilation, wear suitable respiratory equipment S45 - In case of accident or if you feel unwell, seek medical advice immediately

(show the label where possible)

S53 - Avoid exposure - obtain special instructions before use

S57 - Use appropriate container to avoid environmental contamination S59 - Refer to manufacturer/supplier for information on recovery/recycling S60 - This material and its container must be disposed of as hazardous waste

S61 - Avoid release to the environment. Refer to special instructions/safety data

sheets

2.3. Other hazards

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

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

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Name	Product identifier	%	Classification according to Directive 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Lead (II) nitrate substance listed as REACH Candidate (Lead dinitrate)	(CAS-No.) 10099- 74-8 (EC-No.) 233-245-9 (EC Index-No.) 082- 001-00-6	1 - 5	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. If you feel unwell, seek medical advice.

First-aid measures after skin contact : Gently wash with plenty of soap and 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 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 extinguishing media containing water.

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 : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Use personal protective equipment as required.

Emergency procedures : Stop release.

6.2. Environmental precautions

Very toxic to aquatic life with long lasting effects.

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6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Absorb remaining liquid with sand or inert absorbent and remove to safe place.

Clean contaminated surfaces with an excess of water. Collect spillage.

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 : Do not get in eyes, on skin, or on clothing.

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 original container. Store in a dry place.

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 : Chemical resistant safety shoes
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

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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 $^{\circ}\text{C}$ $$: 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

Air contact. Direct sunlight. Heat.

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 : Harmful by inhalation and if swallowed.

Irritation : Not classified
Corrosivity : Not classified
Sensitisation : Not classified
Repeated dose toxicity : Not classified
Carcinogenicity : Not classified

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Mutagenicity : Not classified

Toxicity for reproduction : May cause harm to the unborn child. Possible risk of impaired fertility.

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

LEAD (II) NITRATE 0.01M (0.02N) STANDARDIZED SOLUTION (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

Component	
Lead (II) nitrate (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

No additional information available

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.

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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) : 6.1, 5.1



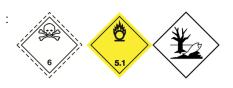
IATA

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)

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Danger labels (RID) : 6.1, 5.1



Packing group

Packing group (ADR) : II : II Packing group (IMDG) Packing group (IATA) : II Packing group (ADN) : 11 Packing group (RID) : II

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

Packing instructions (ADR) : P001, IBC02 : MP15 Mixed packing provisions (ADR) Tank code (ADR) : L4BH Tank special provisions (ADR) : TU15, TE19

Vehicle for tank carriage : AT 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.)

Orange plates

: CV13, CV28

65 3122

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

- Transport by sea

Special provisions (IMDG) : 274 : P001 Packing instructions (IMDG) 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

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- Air transport

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

(IATA)

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

- Inland waterway transport

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

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

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

- Rail transport

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

Packing instructions (RID) : P001, IBC02

Mixed packing provisions (RID) : MP15
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

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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 SZW-lijst van mutagene stoffen : None of the components are listed NIET-limitatieve lijst van voor de : 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

Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of R-, H- and EUH-statements:

Tuil ext of (1,1) and Eof 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		
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		

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R61	May cause harm to the unborn child	
R62	Possible risk of impaired fertility	
N	Dangerous for the environment	
Xn	Harmful	

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

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