

### CAS-No.: MSDS

## MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identification of the subs	tance/mixture and of the company/undertaking		
1.1. Product identifier			
Product form	: Mixture		
	:		
Product code	: R170B		
1.2. Relevant identified uses of th	ne substance or mixture and uses advised against		
1.2.1. Relevant identified uses			
Industrial/Professional use spec	: Industrial For professional use only		
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 info@lobachemie.com - www.lobachemie.com			
1.4. Emergency telephone number	er		
Emergency number	: + 91 22 6663 6663 (9:00am - 6:00 pm)		
SECTION 2: Hazards identification			
2.1. Classification of the substan	ce 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



N -Dangerous for the environment

#### 2.3. Other hazards

No additional information available

<b>SECTION 3: Composition/information on ingredients</b>
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### 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.) 082- 001-00-6	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

ve person to fresh air and keep comfortable for breathing. Give oxygen or al respiration if necessary.
skin with plenty of water. If skin irritation occurs: Get medical advice/attention.
ve contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously ater for several minutes. If eye irritation persists: Get medical advice/attention.
mouth out with water. If you feel unwell, seek medical advice.

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4.2. Mo	st important symptoms and e	ffects, both acute and delayed
Symptoms/e	ffects	: May damage fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.
Symptoms/e	ffects after inhalation	: Harmful if inhaled.
Symptoms/e	ffects after ingestion	: Harmful if swallowed.
4.3. Ind	ication of any immediate med	ical attention and special treatment needed
Treat sympton	omatically.	
SECTION 5	: Firefighting measures	
5.1. Ext	inguishing media	
	nguishing media	: dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).
	extinguishing media	: Do not use a heavy water stream.
5.2. Spe	ecial hazards arising from the	substance or mixture
Fire hazard		: May intensify fire; oxidiser.
Explosion ha	azard	: Heating may cause a fire or explosion.
5.3. Adv	vice for firefighters	
Protection d	uring firefighting	: Do not attempt to take action without suitable protective equipment.
SECTION 6:	: Accidental release measures	
6.1. Per	sonal precautions, protective	equipment and emergency procedures
6.1.1. For	non-emergency personnel	
Emergency		: Avoid contact with skin, eyes and clothing.
6.1.2. For	emergency responders	
Protective ed		: Use personal protective equipment as required.
6.2. Env	vironmental precautions	
	e to the environment.	
	thods and material for contain	· ·
Methods for	cleaning up	: Clean contaminated surfaces with an excess of water.
	erence to other sections	
	I information available	
SECTION 7:	Handling and storage	
7.1. Pre	cautions for safe handling	
Precautions	for safe handling	: Avoid contact with skin and eyes.
Hygiene mea	asures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
7.2. Co	nditions for safe storage, inclu	uding any incompatibilities
Storage con	ditions	: Store in a well-ventilated place. Keep container tightly closed.
7.3. Spe	ecific end use(s)	
No additiona	I information available	
SECTION 8:	Exposure controls/personal	protection
8.1. Coi	ntrol parameters	
	al 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 a	nd chemical properties : Liquid				
Physical state					
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

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SECTION	10: Stability and reactivity				
10.1. R	Reactivity				
	nal information available				
10.2. C	hemical stability				
Stable und	der normal conditions.				
10.3. P	ossibility of hazardous reaction	S			
No additio	nal information available				
10.4. C	onditions to avoid				
Direct sun	light. Heat. Overheating.				
10.5. Ir	10.5. Incompatible materials				
No additio	No additional information available				
10.6. H	10.6. Hazardous decomposition products				
	nal information available				
SECTION	11: Toxicological information				
11.1. lı	nformation on toxicological effe	cts			
Acute toxi	city	: Not classified			
Irritation		: Not classified			
Corrosivity	/	: Not classified			
Sensitisati	on	: Not classified			
Repeated	dose toxicity	: Not classified			
Carcinoge	-	: Not classified			
Mutagenic		: Not classified			
Toxicity fo	r 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

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

UN-No. (IMDG) : UN-No. (IATA) : UN-No. (ADN) :	
13.1.       Waste treatment methods         No additional information available       SECTION 14: Transport information         In accordance with ADR / RID / IMDG / IATA /         14.1.       UN number         UN-No. (ADR)       :         UN-No. (IMDG)       :         UN-No. (IATA)       :         UN-No. (ADN)       :	
University       University         13.1.       Waste treatment methods         No additional information available       SECTION 14: Transport information         In accordance with ADR / RID / IMDG / IATA /       IMDG / IATA /         14.1.       UN number         UN-No. (ADR)       :         UN-No. (IMDG)       :         UN-No. (IATA)       :         UN-No. (ADN)       :	
No additional information available SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / 14.1. UN number UN-No. (ADR) UN-No. (IMDG) UN-No. (IATA) UN-No. (ADN) :	
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In accordance with ADR / RID / IMDG / IATA / 14.1. UN number UN-No. (ADR) : UN-No. (IMDG) : UN-No. (IATA) : UN-No. (ADN) :	
14.1.         UN number           UN-No. (ADR)         :           UN-No. (IMDG)         :           UN-No. (IATA)         :           UN-No. (ADN)         :	
UN number           UN-No. (ADR)         :           UN-No. (IMDG)         :           UN-No. (IATA)         :           UN-No. (ADN)         :	
UN-No. (ADR)       :         UN-No. (IMDG)       :         UN-No. (IATA)       :         UN-No. (ADN)       :	
UN-No. (ADR)       :         UN-No. (IMDG)       :         UN-No. (IATA)       :         UN-No. (ADN)       :	
UN-No. (IMDG) : UN-No. (IATA) : UN-No. (ADN) :	2122
UN-No. (IATA) : UN-No. (ADN) :	3122 3122
UN-No. (ADN) :	
	3122
UN-No. (RID) :	3122
	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	
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#### IMDG

Transport hazard class(es) (IMDG)

: 6.1 (5.1)

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Danger labels (IMDG)	: 6.1, 5.1
Transport hazard class(es) (IATA) Hazard labels (IATA)	: 6.1 (5.1) : 6.1, 5.1
ADN	
Transport hazard class(es) (ADN) Danger labels (ADN)	: 6.1 (5.1) : 6.1, 5.1
<b>RID</b> Transport hazard class(es) (RID)	: 6.1 (5.1)
Danger labels (RID)	: 6.1, 5.1
14.4. Packing group	
Packing group (ADR)	: 11
Packing group (IMDG)	
Packing group (IATA) Packing group (ADN)	: II : 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	,
- Overl	and transport	
Classifi	ication code (ADR)	: TO1
Special	l provisions (ADR)	: 274
Limited	quantities (ADR)	: 100ml
Except	ed quantities (ADR)	: E4

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	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
	Transport category (ADR)	: 2
	Special provisions for carriage - Loading, unloading and handling (ADR)	: CV13, CV28
	Special provisions for carriage - Operation (ADR)	: S9, S19
	Hazard identification number (Kemler No.)	: 65
	Orange plates	65 3122
	Tunnel restriction code (ADR)	: D/E
	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	
	PCA Excepted quantities (IATA)	: E4
	PCA Limited quantities (IATA)	: Y641
	PCA limited quantity max net quantity (IATA)	: 1L
	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
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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  $\geq$  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
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
	The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

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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
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
Ν	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