

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 SDS Reference Number: 04345 Issue date: 4/9/2014 Revision date: 1/31/2025 Supersedes version of: 4/9/2015 Version: 1.0

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

1.1. Product identifier

Product form Trade name EC-No. CAS-No. Product code Type of product Formula Chemical structure

Synonyms

: Lanthanum trinitrate hexahydrate , Lanthanum (III) nitrate hexahydrate

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

Relevant identified uses

Use of the substance/mixture Use of the substance/mixture

Industrial. For professional use only
 Laboratory chemicals
 Manufacture of substances

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

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 Regulation (EC) No. 1272/2008 [CLP]

Oxidising Solids, Category 2	H272
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2	H319
Specific target organ toxicity – Single exposure, Category 3,	H335
Respiratory tract irritation	
Full text of H- and EUH-statements: see section 16	

Adverse physicochemical, human health and environmental effects

May intensify fire; oxidiser. May cause respiratory irritation. Causes skin irritation. Causes serious eye irritation.

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2.2. Label elements Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP) GHS03 GHS07 Signal word (CLP) : Danger Hazard statements (CLP) : H272 - May intensify fire; oxidiser. H315 - Causes skin irritation. H319 - Causes serious eye irritation. H335 - May cause respiratory irritation. Precautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P220 - Keep away from clothing and other combustible materials. P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P302+P352 - IF ON SKIN: Wash with plenty of water. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3. Other hazards

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

SECTION 3: Composition/information on ingredients		
3.1. Substances		
Substance type	: Mono-constituent	
Name	Product identifier	%
LANTHANUM NITRATE HEXAHYDRATE	CAS-No.: 10277-43-7 EC-No.: 233-238-0	100

SECTION 4: First aid measures		
4.1. Description of first aid measures		
First-aid measures general First-aid measures after inhalation	 Call a poison center or a doctor if you feel unwell. Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. If you feel unwell, seek medical advice. Call a poison center or a doctor if you feel unwell. 	
First-aid measures after skin contact	: Gently wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash skin with plenty of water. Take off contaminated clothing.	
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. Call a poison center or a doctor if you feel unwell.	
First-aid measures for first aider	: First aid workers will be equipped with suitable personal protective equipment.	
4.2. Most important symptoms and effects, both acute and delayed		
Symptoms/effects after inhalation Symptoms/effects after skin contact Symptoms/effects after eye contact Symptoms/effects after ingestion	 May cause respiratory irritation. Causes skin irritation. Irritation. Causes serious eye irritation. Eye irritation. None under normal conditions. 	

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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 Unsuitable extinguishing media	Water spray. Dry powder. Foam.Do not use a heavy water stream.
5.2. Special hazards arising from the subs	tance or mixture
Fire hazard Explosion hazard Hazardous decomposition products in case of fire	 May intensify fire; oxidiser. No direct explosion hazard. Toxic fumes may be released.
5.3. Advice for firefighters	
Firefighting instructions Protection during firefighting	 Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measur	res
6.1. Personal precautions, protective equip	ment and emergency procedures
General measures	: Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.
For non-emergency personnel	
Protective equipment	: Wear recommended personal protective equipment.
Emergency procedures	: Ventilate spillage area. Evacuate unnecessary personnel. No open flames, no sparks, and no smoking. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.
For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. Use personal protective equipment as required. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: Stop release. Evacuate unnecessary personnel.
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for containment	and cleaning up
For containment Methods for cleaning up	 Using a clean shovel, put the material in a dry container and cover without compressing it. Mechanically recover the product. Minimise generation of dust. Clear up rapidly by scoop or vacuum. Notify authorities if product enters sewers or public waters.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
For further information refer to section 13.	

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed	: Not expected to present a significant hazard under anticipated conditions of normal use.

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, , , , , , , , , , , , , , , , , , ,	Protect from moisture. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.		
7.2. Conditions for safe storage, including any incompatibilities			
Storage conditions :	Keep in a cool, well-ventilated place away from heat. Store in original container. Keep container tightly closed. Store in a dry place. Store locked up. Store in a well-ventilated place.		
Incompatible materials :	combustible materials.		
Packaging materials :	Store always product in container of same material as original container.		
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

Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Personal protection equipment

Personal protective equipment:

Wear recommended personal protective equipment. **Personal protective equipment symbol(s):**



Eye and face protection

Eye protection: Chemical goggles or safety glasses

Skin protection

Skin and body protection: Wear a mask

Hand protection: Protective gloves

Respiratory protection

Respiratory protection: Wear appropriate mask

Environmental exposure controls

Environmental exposure controls: Avoid release to the environment.

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SECTION 9: Physical and chemical p	properties	
9.1. Information on basic physical and chemical properties		
Physical state Colour Appearance Molecular mass Odour Odour threshold Melting point Freezing point Boiling point Flammability Oxidising properties Lower explosion limit Upper explosion limit Flash point Auto-ignition temperature Decomposition temperature pH pH solution Viscosity, kinematic Solubility Partition coefficient n-octanol/water (Log Kow) Vapour pressure	 Solid White. Powder. Crystals. Chunks. 433.02 g/mol Odourless. Not available 65 - 68 Not applicable 126 °C (Decomposes) Non flammable. The substance or mixture is classified as oxidizing with the subcategory 2. Not applicable Not available 3 - 4 at 25 °C 50 g/L Not applicable Water: > 1200 g/l at 25 °C - Soluble Not available 	
Density Relative density Relative vapour density at 20°C	: Not available : Not available : Not applicable : Not available	

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

May intensify fire; oxidiser.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Direct sunlight. Overheating. Open flame. Heat. Sparks. Avoid contact with hot surfaces. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

Combustible materials.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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SECTION 11: Toxicological info	ormation
11.1. Information on hazard classe	s as defined in Regulation (EC) No 1272/2008
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Causes skin irritation.
	pH: 3 – 4 at 25 °C
Serious eye damage/irritation	: Causes serious eye irritation.
	pH: 3 – 4 at 25 °C
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: May cause respiratory irritation.
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
LANTHANUM NITRATE HEXAHYD	RATE AR (10277-43-7)
Viscosity, kinematic	Not applicable
11.2. Information on other hazards	

No additional information available

SECTION 12: Ecological information		
12.1. Toxicity		
(acute)	The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. Not classified Not classified	
12.2. Persistence and degradability		
LANTHANUM NITRATE HEXAHYDRATE AR (10277-43-7)		
Persistence and degradability	Rapidly degradable	
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		
No additional information available		
12.6. Endocrine disrupting properties		
No additional information available		
12.7. Other adverse effects		
No additional information available		

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SECTION 13: Disposal consideration	S
13.1. Waste treatment methods	
Regional waste regulation Waste treatment methods Sewage disposal recommendations Product/Packaging disposal recommendations Additional information	 Disposal must be done according to official regulations. Dispose of contents/container in accordance with licensed collector's sorting instructions. Disposal must be done according to official regulations. Comply with applicable regulations for solid waste disposal. Disposal must be done according to official regulations. Do not re-use empty containers.
SECTION 14: Transport information	
In accordance with ADR / IMDG / IATA / ADN / RI	D
14.1. UN number or ID number	
UN-No. (ADR) UN-No. (IMDG) UN-No. (IATA) UN-No. (ADN) UN-No. (RID)	 : UN 1477
14.2. UN proper shipping name	
Proper Shipping Name (ADR) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) Proper Shipping Name (ADN) Proper Shipping Name (RID) Transport document description (ADR) (ADR) Transport document description (IMDG) Transport document description (IATA) Transport document description (ADN) Transport document description (RID)	 NITRATES, INORGANIC, N.O.S. UN 1477 NITRATES, INORGANIC, N.O.S. (LANTHANUM NITRATE HEXAHYDRATE), 5.1, II, (E) UN 1477 NITRATES, INORGANIC, N.O.S., 5.1, II
14.3. Transport hazard class(es)	
ADR Transport hazard class(es) (ADR) Danger labels (ADR)	: 5.1 : 5.1 :
IMDG Transport hazard class(es) (IMDG) Danger labels (IMDG)	: 5.1 : 5.1 :

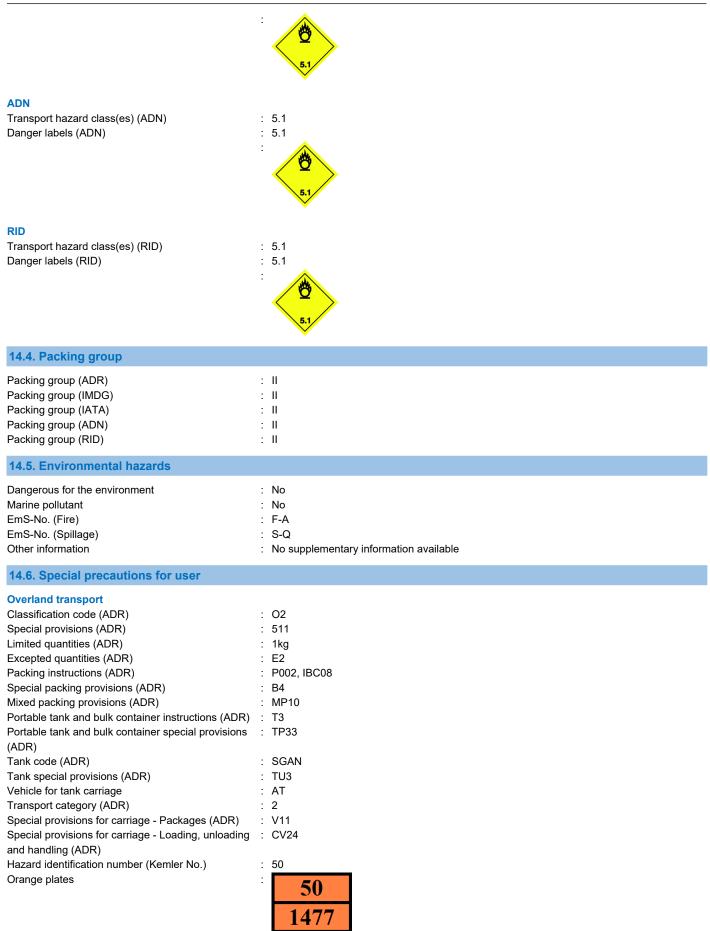
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Transport hazard class(es) (IATA)	:
Danger labels (IATA)	:

5.1 5.1

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Tunnel restriction code (ADR)	: E	
EAC code	: 1Y	
Transport by sea		
Limited quantities (IMDG)	: 1 kg	
Excepted quantities (IMDG)	: E2	
Packing instructions (IMDG)	: P002	
IBC packing instructions (IMDG)	: IBC08	
IBC special provisions (IMDG)	: B21, B4	
	: D21, D4 : T3	
Tank instructions (IMDG)	: TP33	
Tank special provisions (IMDG)	: A	
Stowage category (IMDG)	: SG38, SG49	
Segregation (IMDG)		
Properties and observations (IMDG)	: Solids. Solid mixtures with combustible material are readily ignited and may burn fiercely. Harmful if swallowed.	
MFAG-No	: 140	
Air transport		
PCA Excepted quantities (IATA)	: E2	
PCA Limited quantities (IATA)	: Y544	
PCA limited quantity max net quantity (IATA)	: 2.5kg	
PCA packing instructions (IATA)	: 558	
PCA max net quantity (IATA)	: 5kg	
CAO packing instructions (IATA)	: 562	
CAO max net quantity (IATA)	25kg	
Special provisions (IATA)	: A3, A803	
ERG code (IATA)	: 5L	
Inland waterway transport		
Classification code (ADN)	: 02	
Special provisions (ADN)	: 511	
Limited quantities (ADN)	: 1 kg	
Excepted quantities (ADN)	: E2	
Equipment required (ADN)	: PP	
Number of blue cones/lights (ADN)	: 0	
Rail transport		
Classification code (RID)	: O2	
Special provisions (RID)	: 511	
Limited quantities (RID)	: 1kg	
Excepted quantities (RID)	: E2	
Packing instructions (RID)	: P002, IBC08	
Special packing provisions (RID)	: B4	
Mixed packing provisions (RID)	: MP10	
Portable tank and bulk container instructions (RID)	: T3	
Portable tank and bulk container special provisions	: TP33	
(RID)	. 11 35	
Tank codes for RID tanks (RID)	: SGAN	
Special provisions for RID tanks (RID)	: TU3 : 2	
Transport category (RID)		
Special provisions for carriage – Packages (RID)	: W11	
Special provisions for carriage - Loading, unloading	: CW24	
and handling (RID)		
Colis express (express parcels) (RID)	: CE10	
Hazard identification number (RID)	: 50	
14.7. Maritime transport in bulk according to IMO instruments		

Not applicable

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SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU-Regulations

REACH Annex XVII (Restriction List)

Not listed on REACH Annex XVII

REACH Annex XIV (Authorisation List)

Not listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Not listed on the PIC list (Regulation EU 649/2012)

POP Regulation (Persistent Organic Pollutants)

Not listed on the POP list (Regulation EU 2019/1021)

Ozone Regulation (2024/590)

Not listed on the Ozone Depletion list (Regulation EU 2024/590)

Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

National regulations

Germany

VOC ordinance (ChemVOCFarbV)
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Water hazard class (WGK)	: WGK 3, Highly hazardous to water (Classification according to AwSV).
Chemicals Prohibition Ordinance (ChemVerbotsV)	: This product is subject to ChemVerbotsV Annex 2 Entry 2. The following requirement must
	be observed: Basic requirements for the implementation of the submission (according to § 8
	paragraph 1, 3 and 4).
Lesendeus Incident Ordinence (10. DireCeb)()	
Hazardous Incident Ordinance (12. BImSchV)	: Is not subject to the Hazardous Incident Ordinance (12. BImSchV)
Netherlands	
SZW-lijst van kankerverwekkende stoffen	: The substance is not listed
SZW-lijst van mutagene stoffen	: The substance is not listed
SZW-lijst van reprotoxische stoffen – Borstvoeding	: The substance is not listed
SZW-lijst van reprotoxische stoffen –	: The substance is not listed
Vruchtbaarheid	
SZW-lijst van reprotoxische stoffen – Ontwikkeling	: The substance is not listed
Denmark	
Danish National Regulations	: Young people below the age of 18 years are not allowed to use the product
15.2. Chemical safety assessment	

No chemical safety assessment has been carried out

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SECTION 16: Other i	SECTION 16: Other information		
Abbreviations and acr	onyms:		
ACGIH	American Conference of Government Industrial Hygienists		
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways		
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road		
ATE	Acute Toxicity Estimate		
BCF	Bioconcentration factor		
BLV	Biological limit value		
BOD	Biochemical oxygen demand (BOD)		
CAS-No.	Chemical Abstract Service number		
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008		
COD	Chemical oxygen demand (COD)		
CSA	Chemical safety assessment		
DMEL	Derived Minimal Effect level		
DNEL	Derived-No Effect Level		
EC-No.	European Community number		
EC50	Median effective concentration		
ED	Endocrine disruptor		
EN	European Standard		
EWC	European waste catalogue		
IARC	International Agency for Research on Cancer		
ΙΑΤΑ	International Air Transport Association		
IMDG	International Maritime Dangerous Goods		
LC50	Median lethal concentration		
LD50	Median lethal dose		
LOAEL	Lowest Observed Adverse Effect Level		
Log Kow	Partition coefficient n-octanol/water (Log Kow)		
Log Pow	Partition coefficient n-octanol/water (Log Pow)		
МАК	maximum workplace concentration		
NOAEC	No-Observed Adverse Effect Concentration		
NOAEL	No-Observed Adverse Effect Level		
NOEC	No-Observed Effect Concentration		
N.O.S.	Not Otherwise Specified		
OECD	Organisation for Economic Co-operation and Development		
OEL	Occupational Exposure Limit		
OSHA	Occupational Safety & Health Administration		
РВТ	Persistent Bioaccumulative Toxic		
PNEC	Predicted No-Effect Concentration		
PPE	Personal protection equipment		

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Abbreviations and acronyms:	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
TF	Technical function
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
TWA	Time Weighted Average
VOC	Volatile Organic Compounds
vPvB	Very Persistent and Very Bioaccumulative
UFI	Unique Formula Identifier

Full text of H- and EUH-statements:	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Ox. Sol. 2	Oxidising Solids, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation
H272	May intensify fire; oxidiser.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Safety Data Sheet (SDS), EU

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.