Printing date 10/10/2024

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Reviewed on 10/10/2024

l Identification	
· Product identifier	
· Trade name: Lanthanum Nitrate	
• Article number: L2655	
· CAS Number:	
10277-43-7	
· EC number:	
233-238-0	
· Details of the supplier of the safety	y data sheet SOLUTIONS
· Manufacturer/Supplier:	
Aqua Solutions, Inc.	
6913 Highway 225	
DEER PARK, TX 77536 USA	
800-256-2586	
Information department:	
Technical Coordinator	
Sherman Nelson shermann@aquase	olutions.org
Technical Coordinator	
Sherman Nelson shermann@aquas	olutions.org
• <i>Emergency telephone number:</i> <i>Chemtrec:</i> 800-424-9300	
<i>Canutec:</i> 613-996-6666	
GHS03 Flame over circle	e
Oxidizing Solids 2	H272 May intensify fire; oxidizer.
GHS07	
Skin Irritation 2	H315 Causes skin irritation.
Eye Irritation 2A	H319 Causes serious eye irritation.
Specific Target Organ Toxicity - Sin	ngle Exposure 3 H335 May cause respiratory irritation.
• Label elements • GHS label elements The substance • Hazard pictograms	t is classified and labeled according to the Globally Harmonized System (GH
GHS03 GHS07 • Signal word Danger	
· Hazard statements	
May intensify fire; oxidizer. Causes skin irritation.	
Causes skin irritation. Causes serious eye irritation.	
Causes serious eye irritation.	(Contd. on page

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#### Trade name: Lanthanum Nitrate

(Contd. of pag	e 1)
May cause respiratory irritation.	
Precautionary statements	
Keep away from heat/sparks/open flames/hot surfaces No smoking.	
Keep/Store away from clothing/combustible materials.	
Take any precaution to avoid mixing with combustibles.	
Avoid breathing dust/fume/gas/mist/vapors/spray	
Wash thoroughly after handling.	
Use only outdoors or in a well-ventilated area.	
Wear protective gloves/protective clothing/eye protection/face protection.	
If swallowed: Call a poison center if you feel unwell.	
If on skin: Wash with plenty of soap and water.	
IF INHALED: Remove person to fresh air and keep comfortable for breathing.	_
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to	do.
Continue rinsing.	
If skin irritation occurs: Get medical advice/attention.	
If eye irritation persists: Get medical advice/attention.	
Take off contaminated clothing.	
In case of fire: Use CO2, powder or water spray to extinguish.	
Store in a well-ventilated place. Keep container tightly closed.	
Store locked up.	
Dispose of contents/container in accordance with local/regional/national/international regulations.	
Classification system:	
NFPA ratings (scale 0 - 4)	
3 Health = 2	
$2 \times 0$ Fire = 3	
$\mathbf{V}_{OX}$ Reactivity = 0	
The substance possesses oxidizing properties.	
HMIS-ratings (scale 0 - 4)	
HEALTH 2 $Health = 2$	
FIRE 3 $Fire = 3$	
<b>REACTIVITY</b> Reactivity = $0$	
Other hazards	
Results of PBT and vPvB assessment	
<b>PBT:</b> Not applicable.	
vPvB: Not applicable.	
Composition/information on ingredients	
Chemical characterization: Substances	

- · Chemical characterization: Substances
- · CAS No. Description

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- CAS: 10277-43-7 Lanthanum Nitrate
- Identification number(s) EC number: 233-238-0

# 4 First-aid measures

· Description of first aid measures

• After inhalation: In case of unconsciousness place patient stably in side position for transportation.

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- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: If symptoms persist consult doctor.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

#### **5** Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

#### 6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · Methods and material for containment and cleaning up: Ensure adequate ventilation.
- · Reference to other sections

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

- Protective Action Criteria for Chemicals
- · PAC-1: 1.3 mg/m<sup>3</sup>
- · PAC-2: 15 mg/m<sup>3</sup>
- · PAC-3: 89 mg/m<sup>3</sup>

#### 7 Handling and storage

· Handling:

- · Precautions for safe handling No special precautions are necessary if used correctly.
- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

## 8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see section 7.

· Control parameters

- · Components with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists that were valid during the creation were used as basis.

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(Contd. of page 3)

- Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.
- Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

• Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection:



Tightly sealed goggles

· Body protection: Protective work clothing

Information on basic physical and	chemical properties	
General Information		
Appearance:		
Form:	Crystalline	
Color:	Colorless	
Odor:	Characteristic	
Odor threshold:	Not determined.	
pH-value:	Not applicable.	
Change in condition		
Melting point/Melting range:	65-68 °C (149-154.4 °F)	
Boiling point/Boiling range:	Undetermined.	
Flash point:	Not applicable.	
Flammability:	Product is not flammable.	
Decomposition temperature:	Not determined.	

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		(Contd. of page
Ignition temperature:	Not determined.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure:	Not applicable.	
Density:	Not determined.	
Relative density	Not determined.	
Vapor density	Not applicable.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with		
Water:	Not determined.	
Partition coefficient (n-octano	l/water): Not determined.	
Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
Other information	No further relevant information available.	

#### **10 Stability and reactivity**

· Reactivity No further relevant information available.

- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

#### **11 Toxicological information**

- · Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer) Substance is not listed.
- · NTP (National Toxicology Program) Substance is not listed.
- · OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

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#### **12 Ecological information**

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- *Mobility in soil* No further relevant information available.
- · Additional ecological information:

· General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

## **13 Disposal considerations**

· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

· UN-Number	
· DOT, IMDG, IATA	UN1477
· UN proper shipping name	
$\cdot DOT$	Nitrates, inorganic, n.o.s. (Lanthanum Nitrate)
· IMDG, IATA	NITRATES, INORGANIC, N.O.S. (Lanthanum Nitrate)
· Transport hazard class(es)	
·DOT	
· Class · Label	5.1 Oxidizing substances 5.1
· IMDG, IATA	
· Class	5.1 Oxidizing substances
· Label	5.1

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	(Contd. of page 6)
· Packing group · DOT, IMDG, IATA	Ш
· Environmental hazards: · Marine pollutant:	No
<ul> <li>Special precautions for user</li> <li>Hazard identification number (Kemler code)</li> <li>EMS Number:</li> <li>Stowage Category</li> <li>Segregation Code</li> </ul>	Warning: Oxidizing substances : 5.1 F-A,S-Q A SG38 Stow "separated from" SGG2-ammonium compounds. SG49 Stow "separated from" SGG6-cyanides
• Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· UN ''Model Regulation'':	UN 1477 NITRATES, INORGANIC, N.O.S. (LANTHANUM NITRATE), 5.1, II

## **15 Regulatory information**

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Sara

- · Section 355 (extremely hazardous substances): Substance is not listed.
- Section 313 (Specific toxic chemical listings): Substance is listed.
- · TSCA (Toxic Substances Control Act):
- · Hazardous Air Pollutants Substance is not listed.

· Proposition 65

- · Chemicals known to cause cancer: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for females: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for males: Substance is not listed.
- · Chemicals known to cause developmental toxicity: Substance is not listed.

· Carcinogenic categories

- · EPA (Environmental Protection Agency) Substance is not listed.
- · TLV (Threshold Limit Value) Substance is not listed.
- · NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.
- GHS label elements The substance is classified and labeled according to the Globally Harmonized System (GHS). • Hazard pictograms
- GHS03 GHS07

Signal word Danger
 Hazard statements
 May intensify fire; oxidizer.
 Causes skin irritation.
 Causes serious eye irritation.
 May cause respiratory irritation.

• **Precautionary statements** Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

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#### Trade name: Lanthanum Nitrate

(Contd. of page 7) Keep/Store away from clothing/combustible materials. Take any precaution to avoid mixing with combustibles. Avoid breathing dust/fume/gas/mist/vapors/spray Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Call a poison center if you feel unwell. If on skin: Wash with plenty of soap and water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. *Continue rinsing.* If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing. In case of fire: Use CO2, powder or water spray to extinguish. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. · Chemical safety assessment: A Chemical Safety Assessment has not been carried out. 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Environment protection department. · Contact: *Date of Preparation / Last Revision:* · Date of preparation / last revision Revision 1.2, 10-10-2024: Updated DOT infomation.. STN 10/10/2024 / 1.1 · Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Oxidizing Solids 2: Oxidizing solids – Category 2 Skin Irritation 2: Skin corrosion/irritation - Category 2 Eye Irritation 2A: Serious eye damage/eye irritation - Category 2A Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) - Category 3 • \* Data compared to the previous version altered.