

Lanthanum standard solution 1mg La/mL (1000ppm)

Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 6/22/2016 Revision date: 7/26/2023 SDS code: V4-02 Version: 05

Safety Data Sheet

1. Chemical product and company identification

Product name Lanthanum standard solution 1mg La/mL (1000ppm)

SDS code V4-02

Company/undertaking

identification

HAYASHI PURE CHEMICAL IND.,LTD.

Address: 3-2-12 Uchihiranomachi, Chuo-ku, Osaka, Osaka, Japan

Telephone: 06-6910-7305

E-mail: shiyaku_kikaku@hpc-j.co.jp URL: https://www.hpc-j.co.jp/

Emergency number 06-6910-7305

Recommended use For research and experimental use only.

Restrictions on use Do not use on a human body or for animal medicines, foods, household

products, cosmetics, etc.

2. Hazards identification

GHS classification

Health hazards

Physical hazards Explosives classification not possible

> Flammable gases No classification

Aerosol classification not possible

Oxidizing gases No classification Gases under pressure No classification

Flammable liquids classification not possible

Flammable solids No classification

Self-reactive substances and

mixtures

Pyrophoric liquids classification not possible

Pyrophoric solids No classification

Self-heating substances and classification not possible

mixtures

Substances and mixtures which in contact with water emit flammable

gases

classification not possible

classification not possible

Oxidizing liquids classification not possible

Oxidizing solids No classification

Organic peroxides classification not possible

Category 1 Corrosive to metals

Desensitized explosives classification not possible Acute toxicity (oral) classification not possible Acute toxicity (dermal) classification not possible

Acute toxicity (inhalation:gas) No classification Acute toxicity (inhalation:vapors) Category 2

Acute toxicity (inhalation:dust/mist) classification not possible

Skin corrosion/irritation Category 1 Serious eye damage/eye irritation Category 1

Respiratory sensitization classification not possible Skin sensitization classification not possible Germ cell mutagenicity classification not possible Carcinogenicity classification not possible Reproductive toxicity classification not possible Category 2 (respiratory system)

Specific target organ toxicity (single

exposure)

1/9

Specific target organ toxicity

(repeated exposure)

Category 2 (respiratory system, tooth)

Aspiration hazard

classification not possible classification not possible

Environmental hazards

Hazardous to the aquatic environment, short-term (acute)

classification not possible

Hazardous to the aquatic environment, long-term (chronic)

Hazardous to the ozone layer classification not possible

Hazard pictograms (GHS JP)







GHS05

GHS06 GHS08

Signal word (GHS JP) Danger

Hazard statements (GHS JP) May be corrosive to metals (H290)

Causes severe skin burns and eye damage (H314)

Fatal if inhaled (H330)

May cause damage to organs (respiratory system) (H371) May cause damage to organs (respiratory system, tooth) through

prolonged or repeated exposure (H373)

Precautionary statements (GHS JP)

Keep only in original container. (P234) Prevention

Do not breathe dust/fume/gas/mist/vapors/spray. (P260)

Wash hands, forearms and face thoroughly after handling. (P264) Do not eat, drink or smoke when using this product. (P270)

Use only outdoors or in a well-ventilated area. (P271)

Wear protective gloves/protective clothing/eye protection/face protection.

(P280)

[In case of inadequate ventilation] wear respiratory protection. (P284)

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

(P301+P330+P331)

IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water . (P303+P361+P353)

IF INHALED: Remove person to fresh air and keep comfortable for

breathing (P304+P340)

IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

(P305+P351+P338)

IF exposed or concerned: Call a POISON CENTER or doctor.

(P308+P311)

Immediately call a POISON CENTER or doctor. (P310) Get medical advice/attention if you feel unwell. (P314) Wash contaminated clothing before reuse. (P363) Absorb spillage to prevent material-damage. (P390)

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

(P403+P233)

Store locked up. (P405)

Store in corrosive resistant container with a resistant inner liner. (P406)

Disposal Dispose of contents/container to hazardous or special waste collection

point, in accordance with local, regional, national and/or international

regulation. (P501)

3. Composition/information on ingredients

Distinction of substance or mixture Mixture

Name	Concentration or Concentration range	Formula	Kanpo number		CAS RN
Name			CSCL no	ISHL no	CAS KN
Lanthanum nitrate hexahydrate	About 0.31%	La(NO3)3+6H2O	(1)-756	-	10277-43-7
Nitric acid	About 6.1%	HNO3	(1)-394	Existing Chemical Substance	7697-37-2
Water	About 93.59%	H2O	-	=	7732-18-5

The above concentration or concentration range are not product specification.

All percentages listed in the above concentration or concentration range are wt%, unless otherwise specified.

4. First aid measures

First aid measures

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

Get immediate medical advice/attention.

First-aid measures after skin

contact

Remove/Take off immediately all contaminated clothing.

Gently wash with plenty of soap and water.

Get immediate medical advice/attention.

First-aid measures after eye

contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

Get immediate medical advice/attention.

First-aid measures after ingestion

Do NOT induce vomiting. Drink plenty of water.

Rinse mouth.

Get immediate medical advice/attention.

5. Fire fighting measures

Suitable extinguishing media

Water spray, Alcohol-resistant foam, Dry powder, Carbon dioxide, Sand.

Unsuitable extinguishing media

Do not use a heavy water stream.

Explosion hazard

May induce explosion of containers by heating.

Hazardous decomposition products in case of fire

Firefighting instructions

In case of fire, product may produce irritative or toxic fumes/gases.

If ignited, for the initial fire-fighting, cut off combustion sources, extinguish

fire at a stroke using appropriate fire-extinguishers. In the case of peripheral fire, quickly remove movable containers to safe

places.

If unable to be moved containers, sprinkle water to containers and

surrounding equipment, etc. to cool.

Avoid (reject) fire-fighting water to enter environment.

Even after extinguishing fire, thoroughly cool containers by using plenty of

Protection during firefighting

Wear appropriate fire-resistant clothing including self contained-

compressed air breathing apparatus.

6. Accidental release measures

Personal Precautions, Protective Equipment and Emergency Procedures

General measures Before entering, ventilate the area.

Do not let unauthorized persons come close to the area.

Immediately place the leakage area in isolation, with taking proper

distances for all directions.

Wear appropriate personal protective devices to prevent inhalation and contact with eye, skin, and clothing, and never attempt to work on the lee.

Environmental precautions

Environmental precautions Avoid release to the environment.

Prevent entry to sewers and public waters.

Methods and Equipment for Containment and Cleaning up

Methods for cleaning up : Clean up any spills as soon as possible, using an absorbent material to

collect it.

Collect leaking and spilled liquid in sealable containers as far as possible.

Wash out the spilled area with large amounts of water.

If possible, neutralize with slaked lime, soda ash, etc. before washing out.

7. Handling and storage

Handling

Technical measures : Work with appropriate personal protective equipment to prevent inhalation

or contact to eyes, skin, and clothing.

Handle with care to prevent leakage, overflowing, or scattering, minimize

generation of mist or vapor, and thoroughly ventilate.

Precautions for safe handling : Do not eat, drink or smoke when using this product.

Thoroughly wash your hands and gargle after handling.

Ensure good ventilation of the work station.

Do not contact, breathe or swallow.

Prevents handling of incompatible

substances or mixtures

Avoid prolonged or repeated exposure.

Storage

Storage conditions : Store locked up.

Store in a well-ventilated place, away from direct sunlight. Keep container

tightly closed and keep away from fire and heat sources.

Store in corrosive resistant container with a resistant inner liner.

Material used in

packaging/containers

Light shielding airtight container.

Technical measures : Comply with applicable regulations.

Storage temperature : Cool and dark place

8. Exposure controls / Personal protection equipment

Exposure limit values		
Nitric acid		
Exposure limits (JSOH)	2ppm(5.2mg/m3)	
Exposure limits (ACGIH)	TWA 2 ppm,STEL 4 ppm	

Appropriate engineering controls

: Cover up tightly the generation source at the handling place or install local exhaust equipment or overall ventilation equipment. Install safety showers and eye-fountains near a handling place. Clearly indicate the location.

Protective equipment

Respiratory protection : Gas mask for acid gases
Hand protection : Impervious protective gloves

Eye protection : Protective glasses (general glasses, glasses with side-shields, goggles)
Skin and body protection : Impervious aprons, Impervious work clothing, Impervious long boots

9. Physical and chemical properties

Physical state : Liquid
Appearance : Liquid

Color : colorless transparent

Odor : Irritating odor pH : $\leq 2 (25^{\circ}C)$

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

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Vapor pressure : No data available
Relative density : No data available
Density : 1.03 g/cm³ (20℃)
Relative gas density : No data available
Solubility : No data available
Partition coefficient n- : No data available

octanol/water (Log Pow)

Explosive limits (vol %) : No data available
Viscosity, kinematic : No data available
Particle characteristics : No data available

10. Stability and reactivity

Reactivity : No data available

Chemical stability : Stable under normal handling conditions.

Possibility of hazardous reactions : Corrodes many kinds of metals to evolve hydrogen. When in contact with

reducing substances, organic compounds and metal powder, may react

violently or explode.

Conditions to avoid : Sunlight, heat. Contact with reducing substances, organic compounds,

bases and metals.

Incompatible materials : Reducing substances, Organic compounds, Bases, Metals

Hazardous decomposition : Nitrogen oxides, Hydrogen

products

As a product

11. Toxicological information

The information in this section is based on the "GHS Classification Results" by NITE.

A3 a product		
Acute toxicity (oral)	classification not possible	
Acute toxicity (dermal)	classification not possible	
Acute toxicity (inhalation)	vapors:Category 2	
	Gases:No classification	
	dust, mist:classification not possible	
Skin corrosion/irritation	Category 1	
Serious eye damage/irritation	Category 1	
Respiratory sensitization	classification not possible	
Skin sensitization	classification not possible	
Germ cell mutagenicity	classification not possible	
Carcinogenicity	classification not possible	
Reproductive toxicity	classification not possible	
STOT-single exposure	Category 2	
STOT-repeated exposure	Category 2	
Aspiration hazard	classification not possible	
Lanthanum nitrate hexahydrate		
Acute toxicity (oral)	No data available	
Acute toxicity (dermal)	No data available	
Acute toxicity (gas)	No data available	
Acute toxicity (vapour)	No data available	
Acute toxicity (inhalation:dust/mist)	No data available	
Skin corrosion/irritation	No data available	
Serious eye damage/irritation	No data available	
Respiratory sensitization	No data available	
Skin sensitization	No data available	
Germ cell mutagenicity	No data available	
Carcinogenicity	No data available	
Reproductive toxicity	No data available	
STOT-single exposure	No data available	
STOT-repeated exposure	No data available	
Aspiration hazard	No data available	

Nitric acid		
Acute toxicity (oral)	classification not possible	
Acute toxicity (dermal)	classification not possible	
Acute toxicity (gas)	No classification	
Acute toxicity (vapour)	Category 1	
Acute toxicity (inhalation:dust/mist)	classification not possible	
Skin corrosion/irritation	Category 1	
Serious eye damage/irritation	Category 1	
Respiratory sensitization	classification not possible	
Skin sensitization	classification not possible	
Germ cell mutagenicity	classification not possible	
Carcinogenicity	classification not possible	
Reproductive toxicity	classification not possible	
STOT-single exposure	Category 1	
STOT-repeated exposure	Category 1	
Aspiration hazard	classification not possible	
Water		
Water Acute toxicity (oral)	No classification	
	No classification No classification	
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (gas)		
Acute toxicity (oral) Acute toxicity (dermal)	No classification	
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (gas)	No classification No classification	
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (gas) Acute toxicity (vapour) Acute toxicity (inhalation:dust/mist) Skin corrosion/irritation	No classification No classification No classification	
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12. Ecological information

The information in this section is based on the "GHS Classification Results" by NITE

1		
Lanthanum nitrate hexahydrate		

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Nitric acid	
Hazardous to Aquatic Environment - Chronic Hazard	No classification
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Hazardous to the ozone layer	classification not possible
Water	
Hazardous to Aquatic Environment - Acute Hazard	No classification
Hazardous to Aquatic Environment - Chronic Hazard	No classification
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Hazardous to the ozone layer	classification not possible

13. Disposal considerations

With the detail information of the waste, subcontract its disposal to a Ecology - waste materials

waste disposer authorized by a Prefectural Governor.

Contaminated container and

packaging

Empty the packaging completely prior to disposal.

Empty containers should be taken for recycle, recovery or waste in

accordance with local regulation.

14. Transport information

International Regulations

Transport by sea(IMDG)

UN-No. (IMDG) 2922

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

Packing group (IMDG) Ш Transport hazard class(es) (IMDG) 8 (6.1) Hazard labels (IMDG) 8,6.1 Class (IMDG) 8 Subsidiary hazard (IMDG) 6.1 Special provision (IMDG) 274 Packing instructions (IMDG) P001 IBC packing instructions (IMDG) IBC02 Tank instructions (IMDG) T7 Tank special provisions (IMDG) TP2

Properties and observations (IMDG) Causes burns to skin, eyes and mucous membranes. Toxic if

swallowed, by skin contact or by inhalation.

MFAG-No 154

Air transport(IATA)

Stowage category (IMDG)

UN-No. (IATA) 2922

Proper Shipping Name (IATA) Corrosive liquid, toxic, n.o.s.

Packing group (IATA) Ш Transport hazard class(es) (IATA) 8 (6.1) Hazard labels (IATA) 8, 6.1 Class (IATA) 8 Subsidiary hazards (IATA) 6.1 PCA Excepted quantities (IATA) E2 PCA Limited quantities (IATA) Y840 PCA limited quantity max net 0.5L

quantity (IATA)

PCA packing instructions (IATA) 851 PCA max net quantity (IATA) 1L CAO packing instructions (IATA) 855 CAO max net quantity (IATA) 30L Special provision (IATA) A3, A803 ERG code (IATA) 8P

Marine pollutant Not applicable

Regulations in Japan

Regulatory information by sea Conform to the provisions of the Ship Safety Law. Regulatory information by air Conform to the provisions of the Civil Aeronautics Law.

MFAG-No

Special transport precautions When transporting, load containers so that they do not tip over, damage, drop or collapse. Make sure there is no leak in containers.

15. Regulatory information

National law

Industrial Safety and Health Law

Group 3 Specified Chemical Substance, (Ordinance on Prevention of Hazards Due to Specified Chemical Substances Art.2 Para.1, Item 6) Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57, Para.1, Enforcement Order Art.18 Item 1, Item 2,

Attached Table No.9)

Notifiable Substances (Law Art.57-2, Enforcement Order Art.18-2

Item 1, Item 2, Attached Table No.9) Nitric acid (Ordinance number: 307)

Corrosive Liquids (Ordinance on Industrial Safety and Health Law Art.

154

Substances on dental health checkup (Act, Art.66, Para.3,

Enforcement Order, Art.22 Item 3)

Japanese Poisonous and

Deleterious Substances Control Law

Not applicable

Water Pollution Prevention Law

Hazardous Substances (Act, Art.2, Enforcement Order Art.2, Ministerial Ordinance to Provide for Effluent Standards, Art.1)

Fire Service Law Not applicable

Foreign Exchange and Foreign

Trade Control Act

Civil Aeronautics Law

Ship Safety Act

Export Trade Control Ordinance appendix 1-16

second and third Article Dangerous Goods Regulations)

Corrosive substances (Hazardous materials notice Appended Table 1

Corrosive substances (Dangerous Goods Notification Schedule first

Article 194 of the Enforcement Regulations)

Port Regulation Law Corrosive substances (Article 21, Paragraph 2 of Law, Article 12 rule.

notice attached table that defines the type of dangerous goods)

Waste Management on Public

Cleansing Law

Specially Controlled Industrial Wastes (Act Art.2, para 5, Enfothment

Order Art.2-4)

Waterworks Law Hazardous Substances (Act Article 4 paragraph 2), Standard for

Water Quality (Ministry Order No.101 of 2003)

Japanese Pollutant Release and Transfer Register Law (PRTR Law) Not applicable

Labor Standards Act

Chemical Substances Causing Occupational Illnesses (Act Art.75, Para.2, Ordinance Attached Table 1-2, Item 4-1, MHLW Nortification No.36 of 1978)

16. Other information

Data sources Handbook of 17423 Chemical Products, The Chemical Daily Co, Ltd.

International Chemical Safety Cards.

National Institute of Technology and Evaluation (NITE). 2020 Emergency Response Guidebook (ERG 2020).

Other information The SDS is copyrighted material of Hayashi Pure Chemical Ind, Ltd.

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