

## Safety Data Sheet

### 1. Product and company identification

Product name : Lanthanum acetylacetone dihydrate  
 Name of manufacturer : KANTO CHEMICAL CO., INC.  
 Address : 2-1, Nihonbashi, Muromachi 2-Chome, Chuo-Ku, Tokyo, 103-0022, Japan  
 Name of section : Reagent division, catalog and products information section  
 Telephone number : +81-3-6214-1090  
 Facsimile number : +81-3-3241-1047  
 Mail address : BC32@gms.kanto.co.jp  
 SDS No. : 24273

### 2. Summary of danger and Hazard

#### GHS classification

##### Physical and chemical hazard

Flammable solids : Out of category  
 Pyrophoric solids : Out of category

##### Human health hazard

Skin corrosion · Irritation : Category 2  
 Serious eye damage · Eye irritation : Category 2A

#### Pictogram or symbol



Signal word : Warning  
 Hazard statement : Causes skin irritation  
 Causes serious eye irritation

#### Cautions

Safety measurements : Wear appropriate protective gloves, glasses, clothing, face shield, or mask.  
 Wash protective equipment thoroughly after use.  
 First-aid measures : If in eyes : Rinse cautiously with water for several minutes. Get medical treatment.  
 If on skin : Remove contaminated clothing and the substance. If skin irritation occurs, get medical treatment.  
 Wash hands thoroughly after handling.

### 3. Composition/Information on ingredients

Substance/Mixture : Substance

Chemical name or commercial name : Lanthanum acetylacetone dihydrate

Synonyms : Tris(2,4-pentanedionato)lunthanum(III) dihydrate

Ingredients and composition



Kanto Chemical Co., Inc.

Chemical formula : Lanthanum acetylacetone dihydrate min. 99.99%  
 CAS No. : La(CH<sub>3</sub>COCHCOCH<sub>3</sub>)<sub>3</sub>·2H<sub>2</sub>O  
 TSCA Inventory : Not registered  
 EINECS No. : -

#### 4. First aid measures

Inhalation : Remove the victim to fresh air, and make him blow his nose and gargle.  
 Skin contact : Wash the affected areas under running water.  
 Eye contact : Wash the affected areas under running water. If necessary, get medical treatment.  
 Ingestion : Give the victim water or salt water and induce vomiting. If necessary, get medical attention.

#### 5. Fire fighting measures

Extinguishing media : Water, dry chemical powder, carbon dioxide, dry sand, foam  
 Prohibited extinguishing media : None  
 Particular fire fighting : Move containers from fire area if it can be done without risk, if not possible, apply water from a safe distance to cool and protect surrounding area.  
 Protection for firefighters : Firefighters should wear protective equipment.

#### 6. Accidental release measures

Cautions for personnel : Wear proper equipment and avoid contact with skin and inhalation of dust. Keep away personnel except for authorized ones from spillage area by stretching ropes.  
 Cautions for environment : Attention should be given not to cause damage to the environment by flowing of spillage to rivers. In case of the dilution of copious water, do not cause damage to the environment by untreated wastewater.  
 Removal measure : Sweep up the chemical and place in a chemical waste container.

#### 7. Cautions of handling and storage

Handling  
 Engineering measures : If necessary, wear proper protective equipment not to contact with skin or inhale the dust.  
 Cautions for safety handling : Handle the chemical not to generate aerosol or dust.  
 Storage  
 Adequate storage condition : Store in a dark, cool place and tightly closed.  
 Safety adequate container materials : Glass, polyethylene, polypropylene

#### 8. Exposure control/Personal protection

Engineering measures : Use only with adequate ventilation and in closed systems.

## Control parameters

ACGIH(2009) : Not established

## Protective equipment

## Respiration protective equipment

: If necessary, wear dust mask

## Hands protective equipment

: Impervious protective gloves

## Eyes protective equipment

: Safety goggles

## 9. Physical and chemical properties

Appearance : Powder

Color : White - pale yellow

Odor : Odorless

Boiling point : Decomposition

Melting point : 143°C

Specific gravity : Not available

## Solubility

Solubility in solvents : Decomposes by water

Organic solvents ; Soluble in acetone, benzene

## 10. Stability and reactivity

Stability : Stable under normal usage.

Reactivity : May react with strong oxidizing substances.

Incompatible conditions : Light, heat

Incompatible materials : Oxidizing substances

## Hazardous decomposition products

: Carbon monoxide

## 11. Toxicological information

Acute toxicity : Oral : Not possible to classify because of insufficient data.

Dermal : Not possible to classify because of insufficient data.

Inhalation(vapor) : Not possible to classify because of insufficient data.

Inhalation(dust, mist) : Not possible to classify because of insufficient data.

Skin corrosiveness : Causes skin irritation(category 2)

Since causes irritation to the skin, it was classified into category 2.

Irritation to skin, eyes : Causes serious eye irritation(category 2A)

Since causes irritation to the eyes, it was classified into category 2A.

## Respiratory sensitization or Skin sensitization

: Respiratory sensitization : Not possible to classify because of insufficient data.



Skin sensitization : Not possible to classify because of insufficient data.

Mutagenicity : Not possible to classify because of insufficient data.

Carcinogenic effects : Not possible to classify because of insufficient data

Effects on the reproductive system

: Not possible to classify because of insufficient data.

Specific target organ systemic toxicity single exposure

: Not possible to classify because of insufficient data.

Specific target organ systemic toxicity repeated exposure

: Not possible to classify because of insufficient data.

Aspiration hazard : Not possible to classify because of insufficient data.

## 12. Ecological information

Ecotoxicity

Fish toxicity : Acute aquatic toxicity : Not possible to classify because of insufficient data.

Chronic aquatic toxicity : Not possible to classify because of insufficient data.

Rediualbility and degradability

: Not available

Ecorediualbility : Not available

## 13. Disposal consideration

Residual disposal : Mixed with flammable organic solvents and burn in a chemical incinerator equipped with an afterburner and a scrubber. Or entrust approved waste disposal companies with the disposal.

Containers : In case of disposal of empty bottles, dispose bottles after removing the content thoroughly.

## 14. Transport information

UN class : It is not regulated under UN regulations.

## 15. Regulatory information

Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

## 16. Other information

References Dictionary of Organic Compounds, The society of Synthetic Organic Chemistry, Kodansha Ltd. (1985)

The information contained herein is based on several references and the present state of our knowledge. However the SDS does not always cover all information about the product, handle the product carefully. The information is intended to ordinary usage, in case of particular handlings, conduct appropriate safety measurements. The information herein is only provision of information, and it does not represent a guarantee the properties of the product. The Safety Data Sheet (SDS) is prepared based on JIS Z7253, and it has the same required elements on the Material Safety Data Sheet (MSDS) which is prepared based on JIS Z7250:2010.