# **ACS Material LLC**

Version: 1.2 / EN Revision Date: 9/19/2017

## SECTION 1: IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

1.1 Product identifiers

Product Name : ACS Material Lanthanum Oxide

Brand : ACS Material LLC

CAS-No. : 1312-81-8

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

Identified uses : Laboratory chemicals, Manufacturing of substances

1.3 Details of the supplier of the safety data sheet

Company : ACS MATERIAL LLC

959 E Walnut Street, Suite 100

Pasadena, CA 91106

**USA** 

Telephone : +1 (866)-227-0656 Fax : +1 (781)-518-0284

1.4 Emergency telephone number

Emergency Phone #: +1 (866)-227-0656

#### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Eve irritation (Category 2A), H319

Respiratory system, H335

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

 $\bigcirc$ 

Signal word Warning

Hazard statement(s)

H319 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statement(s)

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

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

P280 Wear protective gloves/ eye protection/ face protection.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in

a position comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several

minutes. Remove contact lenses if present and easy to do

continue rinsing.

P312 Call a POISON CENTER or doctor/ physician if you feel

unwell.

P337+P313 If eye irritation persists get medical advice/attention.
P403+P233 Store in a well-ventilated place. Keep container tightly

closed.

P405 Store locked up.

P501 Dispose of contents/ container to an approved waste

disposal plant.

Supplemental Hazard

Statements None

## 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS – none

#### **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

## 3.1 Substances

Substance name : Lanthanum Oxide

CAS-No : 1312-81-8 EC-No. : 215-200-5

Synonyms : Lanthanum Oxide

Linear formula :  $La_2O_3$ 

Molecular weight : 325.81 g/mol

## **Hazardous ingredients**

Components	Concentration	CAS No.
Lanthanum Oxide	>99.99%	1312-81-8

For the full text of the phrases mentioned in this Section, see Section 16.

Hazardous impurities: None known.

#### **SECTION 4: FIRST AID MEASURES**

## 4.1 Description of first aid measures



# Safety Data Sheet – Lanthanum Oxide

# **ACS Material LLC**

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

## 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

4.3 Indication of any immediate medical attention and special treatment needed

No data available

## **SECTION 5: FIREFIGHTING MEASURES**

## 5.1 Extinguishing media

## Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

## 5.2 Special hazards arising from the substance or mixture

The product is not flammable

## 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

#### 5.4 Further information

No data available

#### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

## 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see section 8.

## 6.2 Environmental precautions

Do not let product enter drains.

# 6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

#### 6.4 Reference to other sections

For disposal see section 13.



## **SECTION 7: HANDLING AND STORAGE**

## 7.1 Precautions for safe handling

## Suitable extinguishing media

Avoid contact with skin and eyes. Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.2.

## 7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

## 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

## 8.1 Control parameters

## Components with workplace control parameters

Contains no substances with occupational exposure limit values.

## 8.2 Exposure controls

## **Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## Personal protective equipment

## Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### **Body Protection**

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

## Respiratory protection

The EPA mandates the use of full face respirators with minimum N100 grade cartridges if there is any risk of exposure to the dust. For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Control of environmental exposure

Do not let product enter drains.



#### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

## 9.1 Information on basic physical and chemical properties

Appearance Form: powder
 Odour Odourless

3) Odour Threshold4) pHNo data availableNo data available

5) Melting point/freezing point Melting point/range: 2,305 - 2,315 °C at ca.1,013

hPa

6) Initial boiling point and boiling range 4,200 °C at 1,013 hPa

7) Flash point Not applicable
8) Evaporation rate No data available
9) Flammability (solid, gas) No data available

9) Flammability (solid, gas)No data a10) Upper/lower flammability or

explosive limits

11) Vapour pressure

12) Vapour density

No data available

No data available

13) Relative density 6.51 g/cm<sup>3</sup> at 25 °C

14) Water solubility Insoluble15) Partition coefficient: n- octanol/water No data available

16) Auto-ignition temperature No data available
17) Decomposition temperature No data available

17) Decomposition temperature No data available18) Viscosity No data available

19) Explosive properties20) Oxidizing propertiesNo data availableNo data available

## 9.2 Other safety information

No data available

#### **SECTION 10: STABILITY AND REACTIVITY**

#### 10.1 Reactivity

No data available

## 10.2 Chemical stability

Stable under recommended storage conditions.

## 10.3 Possibility of hazardous reactions

No data available

#### 10.4 Conditions to avoid

No data available.

## 10.5 Incompatible materials

Strong oxidizing agents



# **ACS Material LLC**



## 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Lanthanum oxides

Other decomposition products - No data available

In the event of fire: see section 5.

#### **SECTION 11: TOXICOLOGICAL INFORMATION**

## 11.1 Information on toxicological effects

## **Acute toxicity**

LD50 Oral - Rat - male and female - >= 10,000 mg/Kg (Lanthanum oxide)

(OECD Test Guideline 401)

LC0 Inhalation - Rat - male and female - 4 h - >= 5.3 mg/L (Lanthanum oxide)

(OECD Test Guideline 403)

#### Skin corrosion/irritation

Skin – Rabbit (Lanthanum oxide)

Result: No skin irritation - 24 h

## Serious eye damage/eye irritation

Eyes – Rabbit (Lanthanum oxide)

Result: Mild eye irritation (Draize Test)

## Respiratory or skin sensitisation

- Guinea pig (Lanthanum oxide)

Result: Does not cause skin sensitisation.

(Maximisation Test)

## Germ cell mutagenicity

Ames test (Lanthanum oxide)

S. typhimurium Result: negative

## Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

#### Reproductive toxicity

No data available

## Specific target organ toxicity - single exposure

No data available

## Specific target organ toxicity - repeated exposure

No data available

#### **Aspiration hazard**

No data available

#### Additional Information

RTECS: OE5330000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. (Lanthanum oxide)



#### **SECTION 12: ECOLOGICAL INFORMATION**

## 12.1 Toxicity

Toxicity to daphnia and

other aquatic

invertebrates Immobilization NOEC - Daphnia magna (Water flea) - >= 100

mg/l - 48h (Lanthanum oxide) (OECD Test Guideline 202)

#### 12.2 Persistence and degradability

No data available

## 12.3 Bioaccumulative potential

No data available

## 12.4 Mobility in soil

No data available

#### 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

## 12.6 Other adverse effects

No data available

#### **SECTION 13: DISPOSAL CONSIDERATIONS**

#### 13.1 Waste treatment methods

#### **Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

## Contaminated packaging

Dispose of as unused product.

## **SECTION 14: TRANSPORT INFORMATION**

#### 14.1 UN number

ADR/RID: - IMDG: - IATA: -

## 14.2 UN proper shipping name

ADR/RID: Not dangerous goods MDG: Not dangerous goods IATA: Not dangerous goods

## 14.3 Transport hazard class(es)

ADR/RID: - IMDG: - IATA: -

## 14.4 Packaging group

ADR/RID: - IMDG: - IATA: -

#### 14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no





# 14.6 Special precautions for user

No data available

#### **SECTION 15: REGULATORY INFORMATION**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixtureThis safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.Chemical safety assessment

For this product a chemical safety assessment was not carried out.

#### **SECTION 16: OTHER INFORMATION**

## Full text of H-Statements referred to under sections 2 and 3.

Eye Irrit. Eye irritation

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

**HMIS Rating** 

Health hazard: 1

#### **Chronic Health Hazard:**

Flammability: 0 Physical Hazard: 0

**NFPA Rating** 

Health hazard: 1
Fire Hazard: 0
Reactivity Hazard: 0

**Disclaimer:** ACS Material, LLC believes that the information in this Safety Data Sheet is accurate and represents the best and most current information available to us. ACS Material makes no representations or warranties either express or implied, regarding the suitability of the material for any purpose or the accuracy of the information contained within this document. Accordingly, ACS Material will not be responsible for damages resulting from use of or reliance upon this information.

