**ALUMINIUM HYDROXIDE** 



# Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE **COMPANY/UNDERTAKING**

1.1 **Product identification:** 

> Product name **ALUMINIUM HYDROXIDE**

Dried Aluminum Hydroxide Gel **Synonyms** 

**Formula**  $AI(OH)_3$ **HSN** 28183000 CAS-No. 21645-51-2 **EC Number** 244-492-7

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

Identified uses Laboratory chemicals, Manufacture of substances.

1.3 Details of the supplier of the safety data sheet:

> **Maruti Color & Chemical** Company :

> > 6, Siddhipark Soc., Opp. Santoshinagar,

L.H. Road, Surat - 395006 Dist.: Surat, State: Gujarat

Email: info@marutichemex.com Web: www.marutichemex.com

E-Mail Address : info@marutichemex.com

1.4 **Emergency Telephone Number:** 

> For Emergency contact on : +91 7567626199 For Whatsapp Message on: +91 8799552145

# **SECTION 2 : HAZARDS IDENTIFICATION**

#### 2.1 Classification of the substance or mixture:

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

#### 2.2 **Label Elements:**

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required

#### 2.3 Other Hazards:

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.



## **ALUMINIUM HYDROXIDE**



# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 **Substances**

Formula  $AI(OH)_3$ 

Synonyms Dried Aluminum Hydroxide Gel

78.00 g/mol Molecular weight CAS-No. 21645-51-2 **EC Number** 244-492-7

# **SECTION 4 : FIRST AID MEASURES**

#### 4.1 **Description of first-aid measures**

### If inhaled

After inhalation: fresh air. In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with

water/shower.

### In case of eye contact

After eye contact: rinse out with plenty of water. Remove contact lenses.

### If swallowed

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling

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

The most important known symptoms and effects are described in the labeling (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 extinguishing measures that are appropriate to local circumstances and the surrounding environment.

# Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

#### 5.2 Special hazards arising from the substance or mixture

Aluminium oxides

Not combustible.

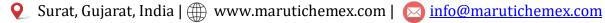
Ambient fire may liberate hazardous vapours.

#### 5.3 **Advice for firefighters**

In the event of fire, wear self-contained breathing apparatus.

#### 5.4 **Further information**

None





## **ALUMINIUM HYDROXIDE**



# **SECTION 6 : ACCIDENTAL RELEASE MEASURES**

#### Personal precautions, protective equipment and emergency procedures 6.1

Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

#### 6.2 **Environmental precautions**

No special precautionary measures necessary.

#### 6.3 Methods and materials for containment and cleaning up

Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

#### 6.4 Reference to other sections

For disposal see section 13.

# **SECTION 7 : HANDLING AND STORAGE**

#### 7.1 **Precautions for safe handling**

For precautions see section 2.2.

#### 7.2 Conditions for safe storage, including any incompatibilities

### **Storage conditions**

Tightly closed. Dry.

Storage class

Storage class (TRGS 510): 13: Non Combustible Solids

#### 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**

Ingredients with workplace control parameters

#### 8.2 **Exposure controls**

## Personal protective equipment

### Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles

### **Skin protection**

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: KCL 741 Dermatril® L





### **ALUMINIUM HYDROXIDE**



This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: KCL 741 Dermatril® L

### Respiratory protection

Required when dusts are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Recommended Filter type: Filter type P1

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

### **Control of environmental exposure**

No special precautionary measures necessary

# <u>SECTION 9</u>: <u>PHYSICAL</u> AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties:

a. Physical state Solid b. Colour White c. Odour odourless

d. Melting Melting point: 300 °C - Elimination of water of crystallization

point/freezing point

e. Initial boiling point Not applicable

and boiling range

f. Flammability The product is not flammable.

(solid, gas)

g. Upper/lower No data available

flammability or explosive limits

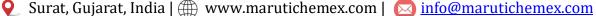
h. Flash point Not applicable i. Autoignition temp. No data available j. Decomposition temp. ca. 150 - 300 °C

k. pH ca.8 - 9 at 100 g/l at 20 °C (slurry)

Viscosity Viscosity, kinematic: No data available

Viscosity, dynamic: No data available





### **ALUMINIUM HYDROXIDE**



at 20 °C - OECD Test Guideline 105 insoluble m. Water solubility

n-octanol/water

n. Partition coefficient: No data available for inorganic substances

< 0.1 hPa at 20 °C o. Vapour pressure

2.42 g/cm<sup>3</sup> at 20 °C p. Density No data available Relative density

q. Relative vapour No data available Density

No data available r. Particle

Characteristics

s. Explosive properties No data available

t. Oxidizing properties none

#### 9.2 Other information:

No data available

# **SECTION 10 : STABILITY AND REACTIVITY**

#### 10.1 Reactivity

No data available

#### 10.2 **Chemical stability**

The product is chemically stable under standard ambient conditions (room temperature).

#### 10.3 Possibility of hazardous reactions

Exothermic reaction with:

Strong acids

#### 10.4 Conditions to avoid

No information available

#### 10.5 **Incompatible materials**

Aluminium, brass, Metals, metal alloys, Zinc, Tin

#### 10.6 **Hazardous decomposition products**

In the event of fire: see section 5

# **SECTION 11: TOXICOLOGICAL INFORMATION**

#### 11.1 Information on toxicological effects

### **Acute toxicity**

LD50 Oral - Rat - female - > 2.000 mg/kg

(OECD Test Guideline 423)

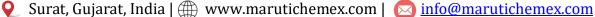
Inhalation: No data available Dermal: No data available

### Skin corrosion/irritation

Skin - Rabbit

Result: No skin irritation - 4 h (OECD Test Guideline 404)





### **ALUMINIUM HYDROXIDE**



## Serious eye damage/eye irritation

Eyes – Rabbit

Result: No eye irritation (OECD Test Guideline 405)

### Respiratory or skin sensitization

Maximization Test - Guinea pig

Result: negative

(OECD Test Guideline 406)

# Germ cell mutagenicity

Test Type: In vitro mammalian cell gene mutation test Test

System: Mouse lymphoma test

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

Test Type: In vivo micronucleus test

Species: Rat

Cell type: Bone marrow **Application Route: Oral** 

Method: OECD Test Guideline 474

Result: negative

## Carcinogenicity

No data available

### 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

### 11.2 Additional Information

### **Endocrine disrupting properties**

### **Product:**

Assessment The substance/mixture does not contain components

> considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

RTECS: WD0940000

# **SECTION 12: ECOLOGICAL INFORMATION**

#### 12.1 Toxicity

No data available





### **ALUMINIUM HYDROXIDE**



#### 12.2 Persistence and degradability

The methods for determining the biological degradability are not applicable to inorganic substances.

#### 12.3 Bioaccumulative potential

No data available

#### 12.4 Mobility in soil

No data available

#### 12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### **Endocrine disrupting properties** 12.6

**Product:** 

Assessment The substance/mixture does not contain components

> considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

#### 12.7 Other adverse effects

No data available

# **SECTION 13**: Disposal considerations

#### 13.1 Waste treatment methods

No data available

# **SECTION 14: Transport information**

14.1 **UN number** 

> ADR/RID: -IMDG: -IATA: -

14.2 **UN proper shipping name** 

> ADR/RID : Not dangerous goods **IMDG** Not dangerous goods IATA Not dangerous goods

Transport hazard class(es) 14.3

> ADR/RID: -IMDG: -IATA: -

14.4 Packaging group

> ADR/RID: -IMDG: -IATA: -

14.5 **Environmental hazards** 

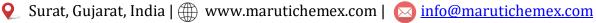
> ADR/RID: no IMDG Marine pollutant : no IATA : no

Special precautions for user 14.6

No data available

**Further information** 

Not classified as dangerous in the meaning of transport regulations.



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# **SECTION 15: Regulatory information**

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

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

#### **15.2 Chemical Safety Assessment**

For this product a chemical safety assessment was not carried.

# **SECTION 16**: Other information

### Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardization; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC -International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG -International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL -Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed ( Adverse ) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q) SAR - (Quantitative) Structure Activity Relationship; REACH -Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative.

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### **Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Maruti color & Chemical and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See our Website and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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