



Polymer Add (Thailand) Co; Ltd.

Safety Data Sheet ALUMINIUM HYDROXIDE

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1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifiers

Chemical Name Aluminium Trihydrate
CAS NO. 21645-51-2

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

1. ATH is used principally as a flame-retardant and smoke suppressant in plastics, rubber and carpet backing
2. As a filler in fine printing papers ATH increases opacity and brightness
3. In paper coatings ATH imparts brightness, gloss and high ink receptivity.

Details of the supplier of the safety data sheet

COMPANY

POLYMER ADD (THAILAND) CO., LTD.
106, Chalaremprakiat, Lor 9, Soi 22, Yak
5, Nongbon, Prawet, Bangkok
Bangkok - 10250
Thailand
Telephone : 0804531391
Email - contact@polymeradd.co.th

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Physical and Chemical Hazards Not a hazardous substance
Human Health Not a hazardous substance
Environment Not a hazardous substance
Not a hazardous substance

2.2 Labelling according Regulation (EC) No 1272/2008 [CLP]

Label elements Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.
Hazard statement(s) None
Precautionary statement(s) None
According to European Directive 67/548/EEC as amended Not a hazardous substance

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.

3 COMPOSITION/INFORMATION ON INGREDIENTS

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3.1 Substances

Component

Chemical Name	Aluminium Hydroxide
CAS NO	21645-51-2
EC Number	244-492-7
Molecular Formula	H3AlO3
Molecular Weight	78,00 g/mol
Concentration	Minimum 99.5%

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 unwell.

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

5 FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
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5.2 Special hazards arising from the substance or mixture

Aluminum oxide , 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

6 ACCIDENTAL RELEASE MEASURES

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6.1 Personal precautions protective equipment and emergency procedures

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.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

For precautions see section 2.2

7.2 Information about protection against explosions and fires

No data available

7.3 Conditions for safe storage including any incompatibilities

Tightly closed. Dry.

7.4 Specific end use(s)

None

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

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

Control of environmental exposure

No special precautionary measures necessary.

9 PHYSICAL AND CHEMICAL PROPERTIES

a) Appearance

Form: solid Color: white

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b)Odour	odorless
c)Odour Threshold	Not applicable
d)pH (% solution in water)	No data available
pH	ca.8 - 9 at 100 g/l at 20 °C (slurry)
e)Melting point/freezing point	300 °C - Elimination of water of crystallization
f)Initial boiling point and boiling range	Not applicable
g)Flash point	Not applicable
h)Evaporation rate	No data available
i)Flammability (solid or gas)	The product is not flammable
j)Upper/lower flammability or explosive limits	No data available
k)Vapour pressure	< 0,1 hPa at 20 °C
l)Vapour density	No data available
m)Relative density	No data available
n)Water solubility	at 20 °C - OECD Test Guideline 105insoluble
o)Partition coefficient: n-octanol/water	Not applicable for inorganic substances
p)Autoignition temperature	No data available
q)Decomposition temperature	ca.150 - 300 °C -
r)Viscosity	No data available
s)Explosive properties	No data available
t)Oxidizing properties	No data available

9.2 Other safety information

Bulk Density	No data available
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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 data available
10.5 Incompatible materials	No data available
10.6 Hazardous decomposition products	In the event of fire: see section 5

11 TOXICOLOGICAL INFORMATION

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11.1 Information on toxicological effects

Acute oral toxicity	LD50 Oral - Rat - female - > 2.000 mg/kg (OECD Test Guideline 423)
Acute Inhalation toxicity	No data
Acute dermal toxicity	No data available
Acute Irritation / corrosion toxicity	No data available
Skin corrosion/irritation	Skin - Rabbit Result: No skin irritation - 4 h (OECD Test Guideline 404)
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
Carcinogenicity	No data available
IARC	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
Signs and symptoms of exposure	No data available
Route of exposure	No data
Aspiration hazard	No data
Potential health effects	No data available
Inhalation	No data available
Ingestion	No data available
Skin	No data
Eyes	No data
RTECS	BD0940000

12 **ECOLOGICAL INFORMATION**

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12.1 Toxicity

Toxicity to fish	No data available
Toxicity to daphnia and other aquatic invertebrates	No data available
Toxicity to Algae/Aquatic plants	No data available
Toxicity to microorganisms	No data available

12.2 Persistence and degradability

Biodegradation

No data available

12.3 Bio accumulative 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.

12.6 Other adverse effects

No data available

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

14 TRANSPORT INFORMATION

14.1 UN number

ADR/RID	IMDG	IATA
-	-	-

14.2 UN proper shipping name

ADR/RID	IMDG	IATA
Not dangerous goods	Not dangerous goods	Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID	IMDG	IATA
-	-	-

14.4 Packaging group

ADR/RID	IMDG	IATA
-	-	-

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14.5 **Environmental hazards**

ADR/RID	IMDG Marine pollutant	IATA
No	No	No

14.6 Special precautions for user None

15 **REGULATORY INFORMATION**

15.1 **Safety health and environmental regulations/legislation specific for the substance or mixture**

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

15.2 **Chemical Safety Assessment**

No data available

16 **OTHER INFORMATION**

See under section 2

See under section 2

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. Dr J Pharmachem (India) and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.jpharmachem.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale

Month of Revision :- March 2027

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