

Polymer Add (Thailand) Co; Ltd.



Safety Data Sheet

ALUMINIUM OXIDE

Revision date :

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NUMBER

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

1.1 Product identifiers

Chemical Name	Aluminium Oxide
CAS NO.	1344-28-1

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

1. Submicron ALOX is an aluminum oxide powder that has been milled so that its average particle size (D50) is below 1 micron
2. ALOX has high hardness, compression strength, abrasion resistance, chemical inertness, and a high melting point
3. ALOX is used in coatings, polishing, and filler applications

Details of the supplier of the safety data sheet

COMPANY

POLYMER ADD (THAILAND) CO., LTD.
106, Chalarempriakiat, 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 or mixture according to Regulation (EC) No. 1272/2008
Human Health	Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008
Environment	Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008
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	None
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3 COMPOSITION/INFORMATION ON INGREDIENTS

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3.1 Substances**Component**

Chemical Name	Aluminium Oxide
CAS NO	1344-28-1
EC Number	215-691-6
Molecular Formula	Al ₂ O ₃
Molecular Weight	101.960
Concentration	Minimum 99.5%

4 FIRST AID MEASURES**4.1 Description of first aid measures**

If inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration.
In case of skin contact	Wash off with soap and plenty of water.
In case of eye contact	Flush eyes with water as a precaution.
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

5 FIREFIGHTING MEASURES**5.1 Extinguishing media**

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide
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5.2 Special hazards arising from the substance or mixture

Aluminum oxide

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary

5.4 Further information

Do not use halocarbon extinguishers.

6 ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions protective equipment and emergency procedures**

Avoid dust formation. Avoid breathing vapors, mist or gas. For personal protection see section 8.

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6.2 Environmental precautions

No special environmental precautions required.

6.3 Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

No data available

7.2 Information about protection against explosions and fires

Provide appropriate exhaust ventilation at places where dust is formed.

7.3 Conditions for safe storage including any incompatibilities

Storage conditions Store in cool place. Keep container tightly closed in a dry and well-ventilated place. strongly hygroscopic.Storage class (TRGS 510): 13: Non Combustible Solids

7.4 Specific end use(s)

Mentioned in section 1.2

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).

Hands 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.

Skin protection

The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derive d from it.

Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

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Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

No special environmental precautions required.

9 PHYSICAL AND CHEMICAL PROPERTIES

a) Appearance	Form: solid
b) Odour	odorless
c) Odour Threshold	No data available
d) pH (% solution in water)	No data available
pH	No data available
e) Melting point/freezing point	2.040 °C
f) Initial boiling point and boiling range	2.980 °C
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	1 hPa at 2.158 °C
l) Vapour density	No data available
m) Relative density	No data available
n) Water solubility	Insoluble
o) Partition coefficient: n-octanol/water	No data available
p) Autoignition temperature	No data available
q) Decomposition temperature	No data available
r) Viscosity	No data available
s) Explosive properties	Not explosive
t) Oxidizing properties	The substance or mixture is not classified as oxid

9.2 Other safety information

Bulk Density	No data available
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10 STABILITY AND REACTIVITY

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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	Exposure to moisture.
10.5	Incompatible materials	Strong acids, Strong bases, Chlorine trifluoride, Ethylene oxide, Halogenated hydrocarbon, Oxygen difluoride, Sodium nitrate, Vinyl compounds, Oxygen
10.6	Hazardous decomposition products	In the event of fire: see section 5

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute oral toxicity	LD50 Oral - Rat - male and female - > 10.000 mg/kg(OECD Test Guideline 401)
Acute Inhalation toxicity	LC50 Inhalation - Rat - male and female - 4 h - > 2,3 mg/l(OECD Test Guideline 403)
Acute dermal toxicity	No data available
Skin corrosion/irritation	Rabbit : Result: No skin irritation - 24 h(OECD Test Guideline 404)
Serious eye damage/eye irritation	Rabbit Result: No eye irritation (OECD Test Guideline 405)
Respiratory or skin sensitization	Draize Test - Guinea pig Result: Does not cause skin sensitization. - Mouse Result: Does not cause respiratory sensitization
Germ cell mutagenicity	Test Type: Ames test Test system: Bacillus subtilis Result: negative Remarks: (IUCLID)
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
Route of exposure	No data available
Aspiration hazard	No data available
Potential health effects	No data available

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Inhalation	No data available
Ingestion	No data available
Skin	No data available
Eyes	No data available
RTECS	BD1200000

12 ECOLOGICAL INFORMATION

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 ecological problems are to be expected when the product is handled and used with due care and attention.

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

14 TRANSPORT INFORMATION

14.1 UN number

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ADR/RID

IMDG

IATA

-

-

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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

-

-

-

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

For this product a chemical safety assessment was not carried out

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

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