

MATERIAL SAFETY DATA SHEET  
According to Directives  
91/155/EEG and 93/112/EEG

MARTINAL  
(non-coated)

1 SUBSTANCE/COMPOUND/ /COMPANY INFORMATION

1.1 Product Name: MARTINAL® (non-coated)  
**Vident Product Name: Poly-Base Filler**  
1.2 Synonym: TRIHYDE®  
ALUMINUM HYDROXIDE  
  
1.3 Company: ADM srl  
Via Monte Spluga, 6 – Phone: +39 02 61298727  
VAT reg. No. 00831280961  
Tax No. 06594560150

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2 COMPOSITION/INFORMATION ON INGREDIENTS

2.1 Chemical name: Aluminum Hydroxide  
Formula:  $Al(OH)_3$   
CAS-No: 21645-51-2  
EINECS-No: 244-492-7  
UN-No: - None -  
  
2.2 Hazardous ingredients: - None -  
2.3 Classification/Symbols: - Not applicable -

3 HAZARDS IDENTIFICATION

This product does not contain any substance listed as hazardous according to EEC directives

4 FIRST AID MEASURES

4.1 Inhalation: Remove from area to fresh air.  
4.2 Skin contact: Flush skin with plenty of soap and water  
4.3 Eye contact: Flush the eyes with plenty of water. Seek medical assistance if irritation persists  
4.4 Ingestion: Rinse mouth. Drink plenty of water

5 FIRE FIGHTING MEASURES

This product is noncombustible and noncombustive  
No restrictions concerning the media used to extinguish surrounding fire

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal protection: Avoid generating dusty conditions.  
6.2 Clean-up: Use standard devices to remove material

7 HANDLING AND STORAGE

7.1 Handling: Avoid generating dusty conditions  
7.2 Storage: Store in a tightly closed container. Store in a dry place. This product can absorb humidity but, under optimal conditions, it undergoes no chemical changes and product shrinkage is limited

8 EXPOSURE CONTROLS/ PERSONAL PROTECTION

8 1 Components with exposure limits

CAS-No	Chemical Name	%	Exposure limit
21645-51-2	Aluminum Hydrate	>99	MAK: 6 mg/m <sup>3</sup> fine dust (respirable dust)

8 2 Personal protective equipment

- 8 2 1 Respiratory protection: Wear a protection mask when intense dusts are generated
- 8 2 2 Gloves: Not necessarily requested
- 8 2 3 Eye protection: Wear protective eyeglasses when intense dusts are generated
- 8 2 4 Skin protection: Not necessarily requested
- 8 2 5 Hygienical measures: Practice standard hygiene

9 PHYSICAL AND CHEMICAL PROPERTIES

9 1 Appearance

- 9 1 1 State: Powder (fine, crystalline)
- 9 1 2 Color: White
- 9 1 3 Odor: None

9 2 Safety data:

- 9 2 1 Melting point: Not applicable – Thermal decomposition
- 9 2 2 Boiling point: Not applicable
- 9 2 3 Flash point: Not applicable
- 9 2 4 Flammability/ Autoflammability: Not applicable
- 9 2 5 Explosion properties: Not applicable
- 9 2 6 Vapor pressure (20°C): Not measurable
- 9 2 7 Specific gravity (20°C): 2,4 g/cm<sup>3</sup>
- 9 2 8 Solubility in water: Basically insoluble (-1,5 · 10<sup>3</sup> g/l)
- 9 2 9 pH (10% in H<sub>2</sub>O): -9
- 9 2 10 Viscosity: Not applicable

10 STABILITY AND REACTIVITY

- 10 1 Stability: Stable under normal conditions
- 10 2 Thermal decomposition: Starts under temperatures exceeding 200°C in aluminum oxide (Al<sub>2</sub>O<sub>3</sub>) and water (H<sub>2</sub>O) Endothermal decomposition without fusion
- 10 3 Hazardous decomposition products: - None -
- 10 4 Materials to avoid: - None -
- 10 5 Hazardous reactions: - None -

11 TOXICOLOGICAL INFORMATION

- 11 1 General information: There are no signs of toxicity Aluminum hydroxide is not listed as a hazardous or noxious substance This product is basically insoluble in water; therefore, it is not possible to compare its effects to the effects caused by solid aluminum compounds The product is suitable for food handling applications (e.g. packagings)
- 11 2 Observed health effects: Eye irritation caused by mechanical effects

12 ECOLOGICAL INFORMATION

- 12 1 General information: Aluminum is to be found in the earth's crust by 8 % and it is one of the most common elements
- 12 2 Disposal: Insoluble non-organic product: mechanical separation
- 12 3 Toxicity (in fish/water fleas): The conducted studies showed no signs of toxicity in the exposed fish *Leuciscus idus* (Din 38412-L15) and water fleas (DIN 38412-L11)

13 DISPOSAL CONSIDERATIONS

- 13 1 Product residues: ) Observe all local and state  
13 2 Contaminated packaging: ) waste regulations
- 14 TRANSPORT INFORMATION
- 14 1 ADR/RID – GGVs/GGVE: ) Not classified as  
14 2 IMDG/GGVSee: ) hazardous  
14 3 ICAO-TI/IATA-DGR: ) under transport regulation
- 15 REGULATORY INFORMATION
- 15 1 Labeling in accordance with European Directive 90/492/EEC concerning the classification of hazardous compounds
- 15 1 1 Symbols: - None -  
15 1 2 Hazardous components - None -  
15 1 3 Risk phrases - R: - None -  
15 1 4 Safety phrases – S: - None -
- 15 2 State regulations
- 15 2 1 Wassergefährdungsklasse: Water danger class: WGK 0  
WGK = classification in accordance with the German Water Resources Act
- 16 ADDITIONAL INFORMATION
- 16 1 Classifications:
- |             |          |
|-------------|----------|
| Europe/EC   | EINECS   |
| Switzerland | BAGT     |
| USA         | TSCA     |
| Japan       | MITI     |
| Australia   | AICS     |
| Canada      | CEPA DSL |
- 16 2 Laws, directives and recommendations:  
This product is in compliance with the following regulations:
- Lebensmittel- und Bodensgegenstandegesetzt §§ 30 und 31
  - BGVV LII
  - BGVV XXXVI
  - DIN EN 71 Part 3
  - FDA 21 CFR Ch 1, § 176, 170 und § 176, 180
  - 90/128/EEC
  - Warenwet
  - CONEG
- 16 3 Note:  
This Material Safety Data Sheet refers to non hazardous substances, which the EEC directives mentioned in the Sheet Heading do not apply to. The EEC directives are mentioned just for reference. This Safety Sheet was prepared to meet our customer's information requirements and it will not be revised until the product labeling listed in the hazardous substances inventory will stay unchanged. The information above is believed to be accurate and represents the information currently available to us. However, we make no warranty with respect to such information.