

Safety Data Sheet : AnTec APS

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Versoin: 1

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1. Identification

Product identifier used on the label: AnTec APS

Recommended use of the chemical and restriction on use: extender for thermal paper

Details of the supplier of the safety data sheet

Company

Anpeak Specialty Minerals Co.,Ltd.

JingPing Town, PingLu District, Shuozhou City,

Shanxi Province, PR China 036800

Tel: 86-349-6076206 Fax:86 349 6076204

Emergency telephone number

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2. Hazards identification

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Classification of the product

No need for classification according to GHS criteria for this product.

Label elements

The product does not require a hazard warning label in accordance with GHS criteria.

Hazards not otherwise classified

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

Emergency overview

Caution:

Prolonged and repeated exposure of dust may cause lung damage.

Contains a suspect carcinogen.

Avoid inhalation of dusts.

Wear protective clothing.

Use with local exhaust ventilation.

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3. Composition / Information on Ingredients

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

This product does not contain any components classified as hazardous under the referenced regulation.

<u>CAS Number</u>	<u>Content (W/W) (%)</u>	<u>Chemical name</u>
92704-41-1	>= 98.0 - <= 100.0%	Kaolin, calcined
1317-70-0	>= 0.4 - <= 2.0 %	Anatase (TiO ₂)

4. First-aid Measures

Description of first aid measures

If inhaled:

Keep patient calm, remove to fresh air. If breathing difficulties develop, aid in breathing and seek immediate medical attention.

If on skin:

Wash off thoroughly with ample water. Consult a doctor if skin irritation persists.

If in eyes:

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. If symptoms persist, seek medical advice.

If swallowed:

No hazards anticipated. If large quantities are ingested, seek medical advice.

Most important symptoms and effects, both acute and delayed

Symptoms: No significant reaction of the human body to the product known.

Indication of any immediate medical attention and special treatment needed

Note to physician

Treatment: Symptomatic treatment (decontamination, vital functions).

5. Fire fighting measures

Extinguishing media

Additional information:

Use extinguishing measures to suit surroundings.

Special hazards arising from the substance or mixture

Hazards during fire-fighting:

No particular hazards known.

Advice for fire-fighters

Protective equipment: Wear self-contained breathing apparatus and chemical-protective clothing.

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Further information:

Product itself is non-combustible; fire extinguishing method of surrounding areas must be considered.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Ensure adequate ventilation. Wear suitable personal protective clothing and equipment. Wear appropriate respiratory protection.

Environmental precautions

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater.

Methods and material for containment and cleaning up

Reclaim for processing if possible. Avoid raising dust. Sweep up or vacuum small pieces and dusts and place in appropriate container for disposal.

7. Handling and Storage

Precautions for safe handling

Avoid dust formation. Product may present a nuisance dust hazard. Closed containers should only be opened in well-ventilated areas. Contaminated surfaces will be extremely slippery.

Protection against fire and explosion:

No special precautions necessary.

Conditions for safe storage, including any incompatibilities

Further information on storage conditions: Keep in a cool, well-ventilated place.

8. Exposure Controls/Personal Protection

Personal protective equipment

Respiratory protection:

Wear appropriate certified respirator when exposure limits may be exceeded. Observe OSHA regulations for respirator use (29 CFR 1910.134).

Hand protection: Wear chemical resistant protective gloves.

Eye protection: Safety glasses with side-shields.

Body protection: Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measures: Handle in accordance with good industrial hygiene and safety practice.

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9. Physical and Chemical Properties

Form: powder

Odor: odorless

Odor threshold: not determined

Color: white

pH value: 6 - 7

Melting point: > 1,300 °C

Boiling point: not applicable

Flash point: not applicable

Lower explosion limit: not determined

Upper explosion limit: not determined

Auto-ignition: No data available.

Vapor pressure: not determined

Density: No data available.

Relative density: 2- 3

Bulk density: approx. 320kg/m³

Vapor density: not determined

Partitioning coefficient n-octanol/water (log Pow):not determined

Self-ignition temperature:not self-igniting

Thermal decomposition: not determined

Viscosity, dynamic: not determined

Solubility in water: insoluble

Miscibility with water: not soluble

Evaporation rate: not determined

10. Stability and Reactivity

Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Chemical stability

The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions

The product is stable if stored and handled as prescribed/indicated.

Conditions to avoid

Avoid dust formation. See MSDS section 7 - Handling and storage.

Incompatible materials

No substances known that should be avoided.

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Hazardous decomposition products

Decomposition products: No hazardous decomposition products if stored and handled as prescribed /indicated.

Thermal decomposition: not determined

11. Toxicological information

Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute Toxicity/Effects

Acute toxicity

Information on: Kaolin, calcined

Assessment of acute toxicity:

Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact. Virtually nontoxic by inhalation. The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition.

Information on: Titanium dioxide

Assessment of acute toxicity:

Virtually nontoxic after a single ingestion. Virtually nontoxic by inhalation. Virtually nontoxic after a single skin contact.

Oral

Information on: Kaolin, calcined

Type of value: LD50

Species: rat

Value: > 2,000 mg/kg (OECD Guideline 401)

Information on: Kaolin

Type of value: LD50

Species: rat

Value: > 5,000 mg/kg

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Inhalation

Information on: Kaolin

Type of value: LC50

Species: rat

Value: 36 mg/l

Exposure time: 1 h

Irritation / corrosion

Assessment of irritating effects: Exposure to dust or fume may cause irritation of the respiratory tract.

Contact with the eyes or skin may cause mechanical irritation.

Skin

Information on: Kaolin

Species: rabbit

Result: non-irritant

Eye

Information on: Kaolin

Species: rabbit

Result: Slightly irritating.

Sensitization

Assessment of sensitization: No sensitizing effect.

not determined

Chronic Toxicity/Effects

Repeated dose toxicity

Assessment of repeated dose toxicity: Prolonged and repeated exposure may cause lung damage.

Information on: Kaolin

Experimental/calculated data: This product may contain greater than 0.1% crystalline silica.

guinea pig Inhalation 1 year

NOAEL: < 23.4 mg/m³

rat Inhalation 1 year

NOAEL: < 27.1 mg/m³

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Genetic toxicity

Assessment of mutagenicity: The chemical structure does not suggest a specific alert for such an effect.

Carcinogenicity

Assessment of carcinogenicity: Not expected to be carcinogenic (based on composition).

Information on: Titanium dioxide

Assessment of carcinogenicity: IARC (International Agency for Research on Cancer) has classified this substance as group 2B (The agent is possibly carcinogenic to humans). In long-term studies in rats in which the substance was given by inhalation, a carcinogenic effect was observed. Tumors were only observed in rats after chronic inhalative exposure to high concentrations which caused sustained lung inflammation. In long-term studies in rats and mice in which the substance was given by feed, a carcinogenic effect was not observed. Dermal exposure is not expected to be carcinogenic.

Reproductive toxicity

Assessment of reproduction toxicity: No data available.

Teratogenicity

Assessment of teratogenicity: No data available.

Symptoms of Exposure

No significant reaction of the human body to the product known.

Medical conditions aggravated by overexposure

Contact may aggravate pulmonary disorders.

12. Ecological Information

Toxicity

Aquatic toxicity

Assessment of aquatic toxicity:

At the present state of knowledge, no negative ecological effects are expected.

Toxicity to fish

Information on: Kaolin, calcined

LC50 (96 h) > 100 mg/l, Oncorhynchus mykiss (OECD 203; ISO 7346; 92/69/EEC, C.1, semistatic)

No toxic effects occur within the range of solubility.

Information on: Titanium dioxide

LC50 (96 h) > 1,000 mg/l, Fundulus heteroclitus (Fish test acute, static)

Literature data. Nominal concentration.

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Aquatic invertebrates

Information on: Kaolin, calcined

EC50 (48 h) > 1 mg/l, Daphnia magna (OECD Guideline 202, part 1, static)

No toxic effects occur within the range of solubility.

Information on: Titanium dioxide

EC50 (48 h) > 1,000 mg/l, Daphnia magna (Daphnia test acute, static)

Literature data. Nominal concentration.

No observed effect concentration (28 d) 100000 mg/kg, aquatic crustacea (other, semistatic)

Literature data. Nominal concentration. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Aquatic plants

Information on: Kaolin, calcined

EC50 (72 h) > 100 mg/l (growth rate), Scenedesmus subspicatus (OECD Guideline 201, static)

The value meets the highest applied test concentration. No toxic effects occur within the range of solubility.

Persistence and degradability

Assessment biodegradation and elimination (H₂O)

Inorganic product which cannot be eliminated from water by biological purification processes. The product is virtually insoluble in water and can thus be separated from water mechanically in suitable effluent treatment plants.

Bioaccumulative potential

Assessment bioaccumulation potential: The product has not been tested.

Mobility in soil Assessment transport between environmental compartments No data available.

Additional information

The product contains: 0 (W/W) PPM selenium, $\geq 0 - \leq 1.8$ (W/W) PPM arsenic, $\geq 0.54 - \leq 76.9$ (W/W) PPM Barium, $\geq 0 - \leq 1.4$ (W/W) PPM beryllium, 0 (W/W) PPM Cadmium, $\geq 0 - \leq 7.3$ (W/W) PPM cobalt, $\geq 1.3 - \leq 94.9$ (W/W) PPM chromium, 0 (W/W) PPM Chromium trioxide, $\geq 0.9 - \leq 16.5$ (W/W) PPM copper, $\geq 0 - \leq 38$ (W/W) PPM lead, $\geq 0 - \leq 4.3$ (W/W) PPM manganese, $\geq 0 - \leq 0.08$ (W/W) PPM mercury, $\geq 0.49 - \leq 34.1$ (W/W) PPM Nickel, 0 (W/W) PPM silver, $\geq 0 - \leq 1.1$ (W/W) PPM Sulfuric acid, dithallium(1+) salt, $\geq 14.6 - \leq 125$ (W/W) PPM vanadium, $\geq 0 - \leq 47.9$ (W/W) PPM zinc

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13. Disposal considerations

Waste disposal of substance:

Dispose of in accordance with local authority regulations. Disposal requirements are dependent on the hazard classification and will vary by location and the type of disposal selected. This product does not possess any of the four identifying characteristics of hazardous waste (ignitability, corrosivity, reactivity, or toxicity).

Container disposal:

Uncontaminated packaging can be re-used. Packs that cannot be cleaned should be disposed of in the same manner as the contents.

RCRA: None

14. Transport Information

Land transport

USDOT

Not classified as a dangerous good under transport regulations

Sea transport

IMDG

Not classified as a dangerous good under transport regulations

Air transport

IATA/ICAO: Not classified as a dangerous good under transport regulations

15. Regulatory Information

US Federal Regulations

Registration status:

Chemical TSCA, US released / listed

EPCRA 311/312 (Hazard categories): Chronic;

NFPA Hazard codes: Health : 1 Fire: 0 Reactivity: 0 Special:

HMIS III rating Health: 1 Flammability: 0 Physical hazard: 0

Canada This product or its ingredients are listed on or compliant with the DSL.

Europe: This product or its ingredients are listed on or compliant with the EINECS

Japan: This product or its ingredients are listed on or compliant with the MITI.

Australia: This product or its ingredients are listed on or compliant with the AICS.

Korea: This product or its ingredients are listed on or compliant with the ECL.

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16. Other Information

SDS Prepared by:

Technical Department

Anpeak Specialty Minerals Co.,Ltd/

SDS Prepared on: 2016/12/17

Note: The version number of this SDS is 1 based on GHS requirements .

The information in this Safety Data Sheet should provided to all who will use, handle, store, transport, or otherwise be exposed to this product. This information has been prepared for the guidance of plant engineering, operations, management and for persons working with or handling this product. The information presented in the SDS is premised upon proper handling and anticipated uses, and is for the material without chemical additions/alterations. We believe this information to be reliable and up-to-date as of the date of publication, but make no warranty that it is. Additionally, if this Safety Data Sheet is more than three years old, please contact the supplier at the phone number listed in Section 1 to make certain that this sheet is current. Copyright Anpeak Specialty Minerals Co.,Ltd. License granted to make unlimited copies for internal use only .

-----End of SDS-----

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