

Apex[®]

APEX MATERIAL SAFETY DATA SHEET

Version: 1.0 | 211108012SHF01 | 12/07/2021

Safety Data Sheet (SDS) Report

Applicant: ANHUI SENTAI WPC GROUP
Guohua Road No.6 , Economic and Technological Development Zone of Guangde
County, 242237, Anhui, China

SDS ID: 211108012SHF01

Issue Date: 2021-12-07

Sample Description:

The sample information was submitted and identified on client's behalf to be:

Product Name : APEX
Physical State : Solid
Data Received : Nov 30, 2021
Data Reviewed : Dec 07, 2021

Service Requested:

Based on the information provided by the applicant, the Safety Data Sheet (SDS) was generated in accordance with US HazCom 2012, for details please refer to attached pages.

Authorized By:

On Behalf Of Regulatory Affairs in Intertek Testing Services Ltd., Shanghai



Anna Wang
Technical Manager

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Safety Data Sheet

according to US HazCom 2012
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SECTION 1: Identification

1.1. Identification

Product form : Mixture
Trade name : APEX

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Construction Material

1.3. Supplier

Supplier

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Guohua Road No.6 , Economic and Technological Development Zone of Guangde County, 242237, Anhui, China
T 0086-19956339011/0086-19956337511
winnie@sentaigroup.com

1.4. Emergency telephone number

No additional information available

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Not classified

2.2. GHS Label elements, including precautionary statements

GHS US labeling

No labeling applicable

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % |
|---|---------------------|----|
| Polyvinyl chloride | CAS-No.: 9002-86-2 | 54 |
| Calcium carbonate | CAS-No.: 471-34-1 | 30 |
| 2-Propenoic acid, butyl ester, polymer with ethenylbenzene and 2-propenenitrile | CAS-No.: 26299-47-8 | 10 |

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| Name | Product identifier | % |
|-----------------------|--------------------|-----|
| Zinc stearate | CAS-No.: 557-05-1 | 5 |
| Calcium stearate | CAS-No.: 1592-23-0 | |
| C,C'-azodi(formamide) | CAS-No.: 123-77-3 | 0.6 |
| Polyethylene | CAS-No.: 9002-88-4 | 0.4 |

SECTION 4: First-aid measures

4.1. Description of first aid measures

| | |
|---------------------------------------|---|
| First-aid measures after inhalation | : Remove person to fresh air and keep comfortable for breathing. |
| First-aid measures after skin contact | : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash skin with plenty of water. |
| First-aid measures after eye contact | : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists. Rinse eyes with water as a precaution. |
| First-aid measures after ingestion | : Rinse mouth. Do NOT induce vomiting. Call a poison center/doctor/physician if you feel unwell. |

4.2. Most important symptoms and effects (acute and delayed)

No additional information available

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

| | |
|--------------------------------|--|
| Suitable extinguishing media | : Foam. Dry powder. Carbon dioxide. Water spray. Sand. |
| Unsuitable extinguishing media | : Do not use a heavy water stream. |

5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Special protective equipment and precautions for fire-fighters

| | |
|--------------------------------|--|
| Firefighting instructions | : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. |
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Evacuate unnecessary personnel.

6.1.1. For non-emergency personnel

| | |
|----------------------|---------------------------------------|
| Protective equipment | : Wear personal protective equipment. |
| Emergency procedures | : Ventilate spillage area. |

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6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Wear recommended personal protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment : Soak up with inert absorbent material (for example sand, sawdust, a universal binder, silica gel).
Methods for cleaning up : Mechanically recover the product. On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.
Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of residues refer to section 13: "Disposal considerations".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Provide good ventilation in process area to prevent formation of vapor.
Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool well ventilated place. Keep container closed when not in use.
Suitable packaging material : PET polyester film

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| Polyvinyl chloride (9002-86-2) | |
|--|---|
| USA - ACGIH - Occupational Exposure Limits | |
| ACGIH OEL TWA | 1 mg/m ³ (respirable particulate matter) |
| ACGIH chemical category | Not Classifiable as a Human Carcinogen |
| Calcium carbonate (471-34-1) | |
| USA - ACGIH - Occupational Exposure Limits | |
| ACGIH OEL TWA | 10 mg/m ³ |
| USA - NIOSH - Occupational Exposure Limits | |
| NIOSH REL (TWA) | 10.5 mg/m ³ |

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| Zinc stearate (557-05-1) | |
|---|--|
| USA - ACGIH - Occupational Exposure Limits | |
| Local name | Zinc stearates |
| ACGIH OEL TWA | 10 mg/m ³ (inhalable particulate matter (Stearates)) 3 mg/m ³ (respirable particulate matter (Stearates)) |
| Remark (ACGIH) | TLV® Basis: LRT irr. Notations: A4 (Not classifiable as a Human Carcinogen) |
| Regulatory reference | ACGIH 2021 |
| USA - OSHA - Occupational Exposure Limits | |
| Local name | Zinc stearate |
| OSHA PEL (TWA) [1] | 15 mg/m ³ (total dust) 5 mg/m ³ (respirable fraction) |
| OSHA PEL (Ceiling) | 15 mg/m ³ (Total dust) 5 mg/m ³ (Respirable fraction) |
| Regulatory reference (US-OSHA) | OSHA Annotated Table Z-1 |
| USA - NIOSH - Occupational Exposure Limits | |
| NIOSH REL (TWA) | 10 mg/m ³ (total dust) 5 mg/m ³ (respirable dust) |

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.
Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

| |
|--|
| Hand protection: |
| Impermeable protective gloves |
| Eye protection: |
| Chemical goggles or safety glasses. Safety glasses |
| Skin and body protection: |
| Wear suitable protective clothing |
| Respiratory protection: |
| In case of insufficient ventilation, wear suitable respiratory equipment |

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid
Color : No data available
Odor : No data available
Odor threshold : No data available
pH : No data available
Melting point : No data available

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| | |
|---|---------------------|
| Freezing point | : Not applicable |
| Boiling point | : No data available |
| Flash point | : Not applicable |
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Flammability | : Non flammable. |
| Vapor pressure | : No data available |
| Relative vapor density at 20 °C | : No data available |
| Relative density | : No data available |
| Density (g/cm ³) | : 0.75 |
| Solubility | : No data available |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Auto-ignition temperature | : Not applicable |
| Decomposition temperature | : No data available |
| Viscosity, kinematic | : Not applicable |
| Viscosity, dynamic | : No data available |
| Explosion limits | : Not applicable |
| Explosive properties | : No data available |
| Oxidizing properties | : No data available |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| | |
|-----------------------------|---|
| Acute toxicity (oral) | : Not classified (Based on available data, the classification criteria are not met) |
| Acute toxicity (dermal) | : Not classified (Based on available data, the classification criteria are not met) |
| Acute toxicity (inhalation) | : Not classified (Based on available data, the classification criteria are not met) |

Calcium carbonate (471-34-1)

| | |
|---------------|------------|
| LD50 oral rat | 6450 mg/kg |
|---------------|------------|

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| Calcium carbonate (471-34-1) | |
|-------------------------------------|--|
| LD50 dermal rat | > 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal)) |
| LC50 Inhalation - Rat | > 3 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Guideline: EU Method B.2 (Acute Toxicity (Inhalation)), Guideline: EPA OPPTS 870.1300 (Acute inhalation toxicity) |

| C,C'-azodi(formamide) (123-77-3) | |
|---|---|
| LD50 oral rat | > 5000 mg/kg |
| LD50 dermal rat | > 2000 mg/kg body weight Animal: rat, Guideline: EU Method B.3 (Acute Toxicity (Dermal)), Guideline: OECD Guideline 402 (Acute Dermal Toxicity) |
| LD50 dermal rabbit | > 2000 mg/kg |
| LC50 Inhalation - Rat | > 6100 mg/m ³ (Exposure time: 4 h) |

| Calcium stearate (1592-23-0) | |
|-------------------------------------|--------------|
| LD50 oral rat | > 10 g/kg |
| LD50 dermal rat | > 2000 mg/kg |

| Zinc stearate (557-05-1) | |
|---------------------------------|---------------------------------|
| LD50 oral rat | > 10 g/kg |
| LD50 dermal rabbit | > 2000 mg/kg |
| LC50 Inhalation - Rat | > 200 mg/l (Exposure time: 1 h) |

| | |
|-----------------------------------|---|
| Skin corrosion/irritation | : Not classified (Based on available data, the classification criteria are not met) |
| Serious eye damage/irritation | : Not classified (Based on available data, the classification criteria are not met) |
| Respiratory or skin sensitization | : Not classified (Based on available data, the classification criteria are not met) |
| Germ cell mutagenicity | : Not classified (Based on available data, the classification criteria are not met) |
| Carcinogenicity | : Not classified (Based on available data, the classification criteria are not met) |

| Polyvinyl chloride (9002-86-2) | |
|---------------------------------------|----------------------|
| IARC group | 3 - Not classifiable |

| | |
|------------------------|--|
| Reproductive toxicity | : Not classified (Based on available data, the classification criteria are not met) |
| STOT-single exposure | : Not classified (Based on available data, the classification criteria are not met) |
| STOT-repeated exposure | : Not classified (Based on available data, the classification criteria are not met) |
| Aspiration hazard | : Not classified (Based on available data, the classification criteria are not met) |
| Viscosity, kinematic | : Not applicable |
| Other information | : Likely routes of exposure: ingestion, inhalation, skin and eye. |

SECTION 12: Ecological information

12.1. Toxicity

| Calcium carbonate (471-34-1) | |
|-------------------------------------|----------------------|
| LC50 - Fish [1] | > 100 mg/l |
| EC50 - Other aquatic organisms [1] | > 100 mg/l waterflea |

| C,C'-azodi(formamide) (123-77-3) | |
|---|---------|
| EC50 - Crustacea [1] | 11 mg/l |

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| C,C'-azodi(formamide) (123-77-3) | |
|---|--|
| LOEC (chronic) | 9.19 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| NOEC chronic algae | 7.2 mg/l |

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

| Calcium carbonate (471-34-1) | |
|---|----------------------|
| BCF - Fish [1] | (no bioaccumulation) |
| Partition coefficient n-octanol/water (Log Pow) | -2.12 |

| C,C'-azodi(formamide) (123-77-3) | |
|---|-------------------------------|
| BCF - Fish [1] | (no bioaccumulation expected) |
| Partition coefficient n-octanol/water (Log Pow) | -1.7 (at 21 °C) |

| Zinc stearate (557-05-1) | |
|---|-----|
| Partition coefficient n-octanol/water (Log Pow) | 1.2 |

12.4. Mobility in soil

| Calcium carbonate (471-34-1) | |
|-------------------------------------|--|
| Mobility in soil | 4.971 Source: Quantitative Structure Activity Relation |

12.5. Other adverse effects

Effect on the ozone layer : No additional information available
Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

| DOT | TDG | IMDG | IATA |
|---|----------------|----------------|----------------|
| 14.1. UN number | | | |
| Not regulated for transport | | | |
| 14.2. Proper Shipping Name | | | |
| Not applicable | Not applicable | Not applicable | Not applicable |
| 14.3. Transport hazard class(es) | | | |
| Not applicable | Not applicable | Not applicable | Not applicable |

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| DOT | TDG | IMDG | IATA |
|--|----------------|----------------|----------------|
| 14.4. Packing group | | | |
| Not applicable | Not applicable | Not applicable | Not applicable |
| 14.5. Environmental hazards | | | |
| Not applicable | Not applicable | Not applicable | Not applicable |
| No supplementary information available | | | |

14.6. Special precautions for user

DOT

Not regulated

TDG

Not regulated

IMDG

Not regulated

IATA

Not regulated

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

according to US HazCom 2012

Revision date : 12/07/2021

Other information : None.

Safety Data Sheet (SDS), USA

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