# Section 1 - Chemical and Enterprise Identification

**Chinese name** PD-05

**Product name in English** PD-05

**Recommended use of the chemical and restrictions on use**
Coating powder for professional use
Powder application by electrostatic spraying

**Information on the Manufacturer/Supplier/Distributor**

| | |
|---|---|
| Producer/Supplier | Axalta Huajia Coating (Huangshan) Co., Ltd., |
| Street/Box | No 109,Yongjia Avenue,Huizhou District,Huangshan,Anhui,PRC |
| Telephone | +86 559 3513755 / 3515355 |
| Telefax | +86 559 3511660 |

**Emergency Information**
Emergency telephone number +86 559 3516967

**For further information, please also consult our Internet site**
http://www.axaltacoatingsystems.com

# Section 2 - Hazard Identification

This preparation is hazardous per the following GHS criteria

**GHS Hazard Category**

| | |
|---|---|
| Acute oral toxicity | Category 4 |
| Acute inhalation toxicity | Category 4 |
| Skin corrosion/irritation | Category 2 |
| Serious eye damage/eye irritation | Category 1 |
| Skin sensitization | Category 1 |
| Germ cell mutagenicity | Category 1B |
| Specific target organ toxicity - repeated exposure | Category 2 |

Endpoints which are “”not classified“”, “”cannot classified“” and “”not applicable“” are not shown

**GHS-Labelling**

Hazard symbols

Signal word Danger

Hazard statements
Harmful if inhaled.
Harmful if swallowed.
Causesskin irritation.
Causes serious eye damage.
May cause damage to organs through prolonged or repeated exposure.
May cause an allergic skin reaction.
May cause genetic defects.

Precautionary statements
Contaminated work clothing should not be allowed out of the workplace.
Wear eye/face protection.
Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
Do not eat, drink or smoke when using this product.
Obtain special instructions before use.
Use only outdoors or in a well-ventilated area.
Wash hands after handling.
Wear protective gloves.
IF exposed or concerned: Get medical advice/ attention.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
IF ON SKIN: Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/ attention.
IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
Specific treatment (see supplemental first aid instructions on this label).
Wash contaminated clothing before reuse.
Store locked up.
Dispose of contents/container in accordance with local regulation.

**Other hazards which do not result in classification**
Contains isocyanates. See information supplied by the manufacturer.

**Main Symptom and Emergency Summary After Contact**
Refer to section 4 of this SDS for information on symptoms, hazards and treatment after contact.

## Section 3 - Ingredients/Composition Information

**Chemical nature**
Mixture √
Substance

**Components**

| CAS-No. | Chemical Name | Concentration | GHS Hazardous |
|---|---|---|---|
| 2451-62-9 | 1,3,5-TRIGLYCIDYL ISOCYANURATE | 1.0-30% | √ |
| - | Additive 1 | <10% | √ |
| - | Zinc Salt | <10% | √ |
| 31570-04-4 | TRIS(2,4-DI-TERT-BUTYLPENYL) PHOSPHITE | <10% | √ |
| - | Additive 2 | <10% | √ |
| 14059-33-7 | BISMUTH VANADIUM OXIDE | <10% | √ |
| 1317-80-2 | TITANIUM DIOXIDE (RUTILE) | <25% | √ |
| 1309-37-1 | IRON OXIDE | <10% | √ |
| 7429-90-5 | ALUMINUM | <10% | √ |
| 1314-23-4 | ZIRCONIUM OXIDE | <10% | √ |
| 5567-15-7 | C.I. PIGMENT YELLOW 83 | <10% | √ |
| 147-14-8 | PHTHALOCYANINE BLUE PIGMENT | <10% | √ |
| 25036-25-3 | BISPHENOL A/EPICHLOROHYDRIN POLYMER | <10% | √ |
| 8002-74-2 | HYDROCARBON WAX | <10% | √ |
| 8002-74-2 | HYDROCARBON WAX | <10% | √ |
| 471-34-1 | CALCIUM CARBONATE | <50% | √ |
| 1860-26-0 | 2-ETHYL-N,N-BIS(2-ETHYLHEXYL)HEXYLAMINE | <10% | √ |

## Section 4 - First-aid Measures

**Inhalation**
Avoid breathing dust. Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough. Move to fresh air. If breathing is irregular or stopped, administer artificial respiration. If symptoms persist, call a physician.

**Skin contact**
Do NOT use solvents or thinners. Take off contaminated clothing and shoes immediately. Wash skin thoroughly with soap and water or use recognized skin cleanser. If skin irritation persists, call a physician.

**Eye contact**
Remove contact lenses. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Seek medical advice.

**Ingestion**
If swallowed, seek medical advice immediately and show this container or label.

**Most important symptoms/effects, acute and delayed**

**Inhalation**
Exposure to isocyanates may cause respiratory sensitization. This effect may be permanent. Symptoms include an asthma-like reaction with shortness of breath, wheezing, cough or permanent lung sensitization. This effect may be delayed for several hours after exposure. Repeated overexposure to isocyanates may cause a decrease in lung function, which may be permanent. Individuals with lung or breathing problems or prior reactions to isocyanates must not be exposed to vapors or spray mist of this product.

**Ingestion**
May result in gastrointestinal distress.

**Skin or eye contact**
Dust generated from this product may cause irritation of the eyes. Repeated or prolonged contact may cause skin irritation with discomfort and dermatitis. Skin contact my cause skin sensitization.

**Protection of first-aiders**
No information available.

**Notes to physician**
No data available on the product. See section 3 and 11 for hazardous ingredients found in the product.

## Section 5 - Fire-fighting Measures

**Suitable extinguishing media**
Water sprayDry chemical

**Extinguishing media which shall not be used for safety reasons**
High volume water jet

**Specific hazards**
Do not allow run-off from fire fighting to enter drains or water courses. Always keep in containers of same material as the original one.

**Specific fire fighting methods and special protective equipment for fire fighters**
Wear as appropriate: Full protective flameproof clothing. Wear self contained breathing apparatus for fire fighting if necessary.

## Section 6 - Leak Emergency Treatment

**Protective measures, devices and emergency treatment procedure for workers**
Keep away from sources of ignition. Air out the room. Do not breathe dust. Comply with safety directives (see chapters 7 and 8).

**Environmental protection measures**
Do not let product enter drains. Notify the respective authorities in accordance with local law in the case of contamination of rivers, lakes or waste water systems.

**Collection of leaking materials, removal method and materials used for disposal**
Contain and collect spillage with a electrically protected vacuum cleaner or by wet brushing and place in container for disposal according to local regulations. Do not use a dry brush as dust clouds or static can be created! The contaminated area should be cleaned up immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises (by volume): water (45 parts), ethanol or isopropyl alcohol (50 parts), concentrated (d : 0,880) ammonia solution (5 parts). A non-flammable alternative is sodium carbonate (5 parts), water (95 parts). Add the same decontaminant to the remnants and let stand for several days until no further reaction in non-sealed container. Once this stage is reached, close container and dispose according to local regulations (see section 13).

**Prevention of secondary hazards**
No information available.

## Section 7 - Operation Handling and Storage

**Operation Handling**
Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used. It is recommended that advice is taken from a competent occupational health practitioner on the assessment of employees with skin or respiratory complaints before the individual is exposed to the uncured product.

**Technical measures/Precautions**
Operators should wear antistatic footwear and clothing. Keep away from open flames, hot surfaces and sources of ignition.

**Precautions for safe handling**
Precautions should be taken to prevent the formation of dusts in concentrations above flammable, explosive or occupational exposure limits. Preparation may charge electrostatically: always use grounded leads when transferring from one container to another. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources.

**Hygiene measures**
Smoking, eating and drinking should be prohibited in the application area.

**Storage**
**Suitable storage conditions**
Observe label precautions. Store between 5 and 25 °C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

**Suitable container and packaging materials for safe storage**
Always keep in containers made of the same material as the supply container.

## Section 8 - Exposure Control and Personal Protection

Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

**Engineering controls**
Provide adequate ventilation. Air-fed protective respiratory equipment must be worn by spray operator even when good ventilation is provided.

**Occupational Exposure Limits**

| Chemical Name | Occupational Exposure Limits | Regulation |
|---|---|---|
| TITANIUM DIOXIDE | 8 mg/m3 TWA | GBZ2.1 Occupational Exposure Limits for Hazardous Agents in the Workplace:Chemical Hazardous Agents |
| PARAFFIN WAX | 2 mg/m3 TWA | GBZ2.1 Occupational Exposure Limits for Hazardous Agents in the Workplace:Chemical Hazardous Agents |
| BARIUM SULFATE | 5 mg/m3 TWA | GBZ2.1 Occupational Exposure Limits for Hazardous Agents in the Workplace:Chemical Hazardous Agents |
| ALUMINUM OXIDE | 4 mg/m3 TWA | GBZ2.1 Occupational Exposure Limits for Hazardous Agents in the Workplace:Chemical Hazardous Agents |
| CARBON BLACK | 4 mg/m3 TWA | GBZ2.1 Occupational Exposure Limits for Hazardous Agents in the Workplace:Chemical Hazardous Agents |
| AMORPHOUS SILICA | 5 mg/m3 TWA | GBZ2.1 Occupational Exposure Limits for Hazardous Agents in the Workplace:Chemical Hazardous Agents |
| HYDROCARBON WAX | 2 mg/m3 TWA | GBZ2.1 Occupational Exposure Limits for Hazardous Agents in the Workplace:Chemical Hazardous Agents |
| POLYETHYLENE | 5 mg/m3 TWA | GBZ2.1 Occupational Exposure Limits for Hazardous Agents in the Workplace:Chemical Hazardous Agents |
| MICA | 1.5 mg/m3 TWA | GBZ2.1 Occupational Exposure Limits for Hazardous Agents in the Workplace:Chemical Hazardous Agents |
| ALUMINUM | 3 mg/m3 TWA | GBZ2.1 Occupational Exposure Limits for Hazardous Agents in the Workplace:Chemical Hazardous Agents |
| QUARTZ-CRYSTALLINE SILICA | 0.7 mg/m3 TWA | GBZ2.1 Occupational Exposure Limits for Hazardous Agents in the Workplace:Chemical Hazardous Agents |

**Biological occupational exposure limits**
No information available.

**Personal protective equipment**
Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.

**Respiratory protection**
If dust formation exceeds the air concentration limits, then a respiratory protection device approved for this purpose must be worn.

**Hand protection**
The breakthrough time of gloves is unknown for the product itself. The glove material given is recommended on basis of the substances in the preparation.

| Glove material | Glove thickness | Break through time |
|---|---|---|
| Nitrile rubber | 0.33 mm | > 240 min |

The protective glove should be checked in each case for their work specific suitability (e.g. mechanical stability, product compatibility, and anti-static properties). After contamination, the glove has to be changed. Care should be taken when working with sharp edged articles as these can easily damage the gloves and make them ineffective. The instructions and information provided by the glove supplier on use, storage, maintenance and replacement must be followed. Damaged gloves or those showing signs of wear should be replaced immediately. Preventive skin protection such as skin protective cream is recommended. Work tasks should be arranged in such a way that gloves do not have to be worn continuously.

**Eye protection**
Eye protection (to EN 166/170) designed to protect against exposure to dusts should be worn when there is a likelihood of exposure.

**Skin protection**
Wear suitable protective clothing. Care should be taken in the selection of protective clothing.

**Hygiene measures**
Wash skin thoroughly with soap and water or use recognized skin cleanser. Do not use organic solvents!

## Section 9 - Physical and Chemical Properties

| | | |
|---|---|---|
| **Appearance (Physical state, form, colour, etc.)** | | |
| Physical state | solid | |
| Form | solid | |
| Colour | Diverse | |
| **Odour** | | |
| **Odour Threshold** | no data available | |
| **pH (specifed concentration)** | not applicable | |
| **Melting point/freezing point** | | |
| Solidification point | Not applicable. | |
| **Boiling point, initial boiling point and boiling range** | | |
| Boiling point/boiling range | Not applicable. | |
| **Flash point** | Not applicable. | |
| **Decomposition temperature** | | |
| **Autoignition temperature** | Not applicable. | DIN 51794 |
| **Explosion limits** | | |
| Upper explosion limit | 70 $g/m^3$ | |
| Lower explosion limit | 20 $g/m^3$ | |
| **Vapour pressure** | 0.0 hPa | |
| **Vapour density** | no data available | |
| **Density** | 1.0-2.0$g/cm^3$ | DIN 53217/ISO 2811 |
| **Solubility(ies)** | | |
| Water solubility | partly miscible | |
| **Partition coefficient: n-octanol/water** | no data available | |
| Evaporation rate | not applicable | |

Does not sustain combustion.

## Section 10 - Stability and Reactivity

**Stability**
Stable

**Possible hazardous reactions under specific conditions**
As stated above, the product is stable. No further reactions are known.

**Conditions to avoid**
Stable under recommended storage and handling conditions (see section 7).

**Materials to avoid**
Keep away from oxidising agents and strongly acid or alkaline materials. Amines and alcohols cause exothermic reactions. Mixture reacts slowly with water resulting in evolution of CO2. Evolution of CO2 in closed containers causes overpressure and produces a risk of bursting.

**Hazardous decomposition products**
When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen as well as hydrogen cyanide, amines, alcohols and water.

## Section 11 - Toxicological Information

**Information on likely routes of exposure**

**Inhalation**
Exposure to isocyanates may cause respiratory sensitization. This effect may be permanent. Symptoms include an asthma-like reaction with shortness of breath, wheezing, cough or permanent lung sensitization. This effect may be delayed for several hours after exposure. Repeated overexposure to isocyanates may cause a decrease in lung function, which may be permanent. Individuals with lung or breathing problems or prior reactions to isocyanates must not be exposed to vapors or spray mist of this product.

**Ingestion**
May result in gastrointestinal distress.

**Skin or eye contact**
Dust generated from this product may cause irritation of the eyes. Repeated or prolonged contact may cause skin irritation with discomfort and dermatitis.

**Delayed and immediate effects and also chronic effects from short and long term exposure:**

**Acute oral toxicity**

| | |
|---|---|
| 1,3,5- triglycidyl isocyanurate | Category 3 |
| Additive1 | Category 4 |

**Acute inhalation toxicity**

| | |
|---|---|
| 1,3,5- triglycidyl isocyanurate | Category 3 |

**Skin corrosion/irritation**

| | |
|---|---|
| BISMUTH VANADIUM OXIDE | Category 2 |
| IRON OXIDE | Category 2 |
| PHTHALOCYANINE BLUE PIGMENT | Category 3 |
| BISPHENOL A/EPICHLOROHYDRIN POLYMER | Category 2 |
| CALCIUM CARBONATE | Category 2 |

**Serious eye damage/eye irritation**

| | |
|---|---|
| 1,3,5-TRIGLYCIDYL ISOCYANURATE | Category 1 |
| BISMUTH VANADIUM OXIDE | Category 2B |
| TITANIUM DIOXIDE (RUTILE) | Category 2B |
| IRON OXIDE | Category 1 |
| ZIRCONIUM OXIDE | Category 2A |
| C.I. PIGMENT YELLOW 83 | Category 2A |
| BISPHENOL A/EPICHLOROHYDRIN POLYMER | Category 2 |
| HYDROCARBON WAX | Category 2B |
| CALCIUM CARBONATE | Category 2A |

**Skin sensitization**

| | |
|---|---|
| 1,3,5- triglycidyl isocyanurate | Category 1 |
| BISPHENOL A/EPICHLOROHYDRIN POLYMER | Category 1 |

**Germ cell mutagenicity**

| | |
|---|---|
| 1,3,5- triglycidyl isocyanurate | Category 1B |

**Specific target organ toxicity - repeated exposure**
No data available.

**Numerical measures of toxicity (acute toxicity estimation (ATE),etc. )**
No information available.

**Symptoms related to the physical, chemical and toxicological characteristics**
Based on the properties of the isocyanate components and considering toxicological data on similar products, the following applies: This formulation may cause acute irritation and/or sensitization of the respiratory system leading to an asthmatic condition, wheeziness and a tightness of the chest. Sensitized persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL. Repeated exposure may lead to permanent respiratory disability. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Through skin resorbtion, solvents can cause some of the effects described here. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage.

## Section 12 - Ecological Information

Product does not contain any environmentally hazardous substances and product is not classified per GHS

**Ecotoxicity effects**
There are no data available on the product itself. The product should not be allowed to enter drains or watercourses. The data in this section is consistent with data from chemical safety reports available at the date of revision.

**Persistence and degradation**
No information available.

**Bioaccumulation**
No information available.

**Mobility in soil**
No information available.

**Other adverse effects**
No information available.

## Section 13 - Waste Disposal

**Waste disposal methods**
Dispose of in accordance with local regulations.

**Disposal considerations**
A disposal process that converts the waste into energy is recommended. Can be landfilled or incinerated, when in compliance with local regulations.

**Used package**
Empty containers should be taken to an approved waste handling site for recycling or disposal. If recycling is not practicable, dispose of in compliance with local regulations.

## Section 14 - Transport Information

Not classified as dangerous in the meaning of transport regulations.

**Matters needing attention for transportation**
Confirm that there is no breakage, corrosion, or leakage from the container before shipping. Be sure to prevent damage to cargo by loading so as to avoid falling, dropping, or collapse. Ship in appropriate containers with denotation of the content in accordance with the relevant statutes and rules.

## Section 15 - Regulatory Information

Regulations on the Control over the Safety of Dangerous Chemicals
Production Safety Law of the People's Republic of China
Law of the People's Republic of China on Prevention and Treatment of Occupational Disease
Environmental Protection Law of the People's Republic of China
Law of the People's Republic of China on the Prevention and Control of Atmospheric Pollution
Marine Environment Protection Law of the People's Republic of China
Fire Protection Law of the People's Republic of China
Law of the People's Republic of China on the Prevention and Control of Environmental Pollution by Solid Wastes
Occupational exposure limits for hazardous agents in the workplace Part 1 Chemical hazardous agents (GBZ2.1)
Occupational exposure limits for hazardous agents in the workplace Part 2 Physical agents (GBZ2.2)
General rule for classification and hazard communication of chemicals (GB13690)
National waste list

## Section 16 - Other Information

| | |
|---|---|
| Sources of key data used to compile the Safety Data Sheet<br>Department | Axalta Huajia Coating (Huangshan) Co., Ltd.,<br>No 109,Yongjia Avenue,Huizhou District,Huangshan,Anhui,PRC |
| Data Review Department | Regulatory Affairs |

Revision Note

| Version | Changes |
|---|---|
| 1.0 | |

Revision Date: 2015-01-15

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.