

MATERIAL SAFETY DATA SHEET

titanium dioxide pigment

Date: 2019-01-01

Expiry date: 2021-12-31

PANGANG TITANIUM INDUSTRY CO.,LTD.

For more detailed information on the hazards of this product, contact Chemical Safety and Health Department or Medical Services Department at the address below.

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT IDENTIFICATION

Brand Name R298 R248 R248+ R5566 R5568 R5569 CR350 CR200 CR210 CR510
Chemical Name Titanium dioxide
Common Name..... Titanium dioxide
Formula Mixture
Molecular Weight..... N/A
Product Use Pigment
Product Identification Number N/A

MANUFACTURER EMERGENCY TELEPHONE NUMBER

PANGANG TITANIUM INDUSTRY CO.,LTD.
BLOCK D, GUANGHUA CENTER QINGYANG DISTRICT
CHENGDU CITY, SICHUAN PROVINCE,
PR OF CHINA 610032
Telephone: +86 28 6150 0891
Facsimile: +86 28 6150 0892

2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME CAS NUMBER WEIGHT %

Titanium dioxide 13463-67-7 86 - 97
Aluminum hydroxide: 21645-51-2 1 - 5
Amorphous silica₂ 7631-86-9 0 - 10

Present in all tio₂ pigment type

See Section 15 of this MSDS for OSHA Regulatory Status.

3. HAZARDS IDENTIFICATION

The product contains no substances classified as hazardous to health or environment in concentrations, which should be taken into account according to directive 67/548/EEC.

4. FIRST AID MEASURES

Inhalation: Remove from area to fresh air. Seek medical attention if respiratory irritation develops or if breathing becomes difficult.

Eye contact: Rinse eyes with water. Remove any contact lenses, and continue flushing with plenty of water for several minutes. Seek medical attention if irritation develops or persists.

Skin contact: Washing of exposed skin after use is recommended to reduce general chemical contact.

Ingestion: Rinse mouth if necessary. Seek medical assistance if necessary.

NOTE TO PHYSICIAN

Chemicals of exposure are titanium dioxide and aluminum hydroxide, which are pulmonary irritants.

5. FIRE FIGHTING MEASURES

Flash Point and Method..... N/A

GENERAL HAZARD

This product is not flammable, but may become involved in a fire with other materials.

MATERIAL SAFETY DATA SHEET
TITANIUM DIOXIDE PIGMENT

EXTINGUISHING MEDIA

Use media suitable for the material that is burning.

FIREFIGHTING EQUIPMENT

As in any fire, wear NIOSH approved, positive-pressure, self-contained breathing apparatus and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Wear appropriate protective equipment (See Section 8).

ON LAND

Prevent spread of material and keep dust level down as much as possible. Scoop up material and all contaminated soil for later disposal.

IN WATER

Use vacuum techniques and containment devices to prevent spread and remove material from water source for later disposal.

7. HANDLING AND STORAGE

Wear appropriate protective equipment (See Section 8). Avoid creating or breathing dust.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS

Provide local exhaust ventilation system to meet exposure limits.

PERSONAL PROTECTION

Respirator: In operations where dusts are generated, use a NIOSH approved air purifying respirator with a particulate filter that has been selected by a technically qualified person for the specific work conditions. If respirators are used, OSHA requires compliance with its respiratory protection program (29 CFR 1910.134).

Eye Protection: Wear safety glasses with side shields or vented safety goggles.

Gloves: Ordinary work type.

Clothing: Wear easily washable clothing. Wash clothing after each shift.

Other: Emergency eye wash and shower.

General: Do not eat, drink, or smoke in work area. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using toilet facilities or applying cosmetics.

9. PHYSICAL AND CHEMICAL PROPERTIES

State Powdered solid

Color White

Odor None

Melting Point °C Approx. 1,840

Boiling Point °C..... 2,500 - 3,000

Bulk Density, lb/cu. Ft..... 30 - 75

Specific Gravity @ 20 °C..... 3.8 - 4.2

Water Solubility Insoluble

pH5 - 8.5 (10% slurry)

10. STABILITY AND REACTIVITY

REACTIVITY

Stable.

INCOMPATIBILITIES

None in normal or expected use.

HAZARDOUS DECOMPOSITION PRODUCTS

None in normal or expected use.

CONDITIONS TO AVOID

None known.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

LD50/oral/rat > 10 000 mg/kg

Irritativens and corrosiveness

none known

Sensitisation

none known

Local effects

Skin irritation: Non-irritating. Prolonged skin contact may defat the skin and produce dermatitis.

Eye irritation: Slight physical irritation.

Sub-acute, sub-chronical and long-term toxicity

Effects of breathing high concentrations of respirable particles may induce a cough.

Material is not genotoxic.

Human experience

Health injuries are not known or expected under normal use. Tumours produced in rats on inhalation of very high concentrations are believed to be the result of prolonged "lung overload" and are not considered relevant to man.

12. ECOLOGICAL INFORMATION

Ecotoxicity

LC0 (Leuciscus idus, 48 h) > 1000 mg/l

Mobility

Limited (solid particles)

Persistence and degradability

Material is insoluble in aquatic systems and not biodegradable.

Bioaccumulation

No information available.

Other adverse effects

Not known.

13. DISPOSAL CONSIDERATIONS

Waste disposal in accordance with local and national regulations.

Not a hazardous waste under 2000/532/EC.

14. TRANSPORT INFORMATION

The product is not classified as dangerous in the meaning of transport regulations. **UN-No** not applicable **Packing group** not applicable **ADR/RID** not applicable **HI/UN No:** not applicable **IMO** not applicable **IMDG Page** not applicable **MFAG** not applicable **EMS** not applicable **Marine pollutant** not applicable **ICAO/IATA** not applicable

15. REGULATORY INFORMATION

The product does not need to be labelled in accordance with EC directive 67/548/EEC or respective national laws. Titanium dioxide is listed on AICS, DSL, MITI and TSCA.

16. OTHER INFORMATION

R-phrases

None.

Training advice

Read the safety data sheet before using the product.

Recommended restrictions on use

None.

Further information

Sources of key data

The information provided in this Safety Data Sheet is correct to the best of our knowledge 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, since the conditions of the operations mentioned are beyond our control. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process unless specified in the text. PANGANG TITANIUM disclaims any liability for loss or damage resulting from the use of these data, information or suggestions.

