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# MATERIAL SAFETY DATA SHEET

# **1. PRODUCT AND COMPANY IDENTIFICATION**

## **PRODUCT IDENTIFICATION**

| Brand Name                    | R298             |
|-------------------------------|------------------|
| Chemical Name                 | Titanium dioxide |
| Common Name                   | Titanium dioxide |
| Formula                       | Mixture          |
| Molecular Weight              | N/A              |
| Product Use                   | Pigment          |
| Product Identification Number | N/A              |

# 2. COMPOSITION/INFORMATION ON INGREDIENTS

### CHEMICAL NAME CAS NUMBER WEIGHT %

Titanium dioxide 13463-67-7 86 - 97 Aluminum hydroxide1 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 material
- 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             |
| pH                       | .5 - 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
- IRRITATIVENESS 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 **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. Issuer disclaims any liability for loss or damage resulting from the use of these data, information or suggestions.