SDS · SAFETY DATA SHEET (GHS / REACH)

Titanium dioxide, 25 kg

Article: 20042 · **INCI:** CI 77891 (Titanium Dioxide)
Document No. SDS-31467-EN-2611 · **Revision:** 11.2026

Product page

1 Identification of the substance/mixture and of the company

Trade name	Titanium dioxide, 25 kg
Article	20042
INCI	CI 77891 (Titanium Dioxide)
Recommended use	color cosmetics, candles, epoxy resin, polymer clay
Uses advised against	Use an FFP2 respirator when handling the powder and avoid dust formation.
Supplier	**Mylo-Opt** 1st Pishchanyi Lane, 1, Kremenchuk, Poltava region, Ukraine +38 (063) 690-06-72 · mysoapoptom@gmail.com мыло-опт.com.ua
Emergency telephone	+38 (063) 690-06-72 (Mon–Fri, 8:00–17:00)

2 Hazards identification

Classification (CLP/GHS)	Carc. 2, H351 (inhalation; for powder containing ≥ 1 % particles ≤ 10 µm).
Label elements	See “Other hazards”.
Other hazards	In powder form: possible classification Carc. 2, H351 (inhalation). Signal word: Warning. P261, P281, P308+P313. Dust may mechanically irritate eyes and respiratory tract.

3 Composition / information on ingredients

Mixture. Components are not classified as hazardous at the stated concentrations unless otherwise stated in section 2.

Component	CAS	EC	Content, %
CI 77891 (Titanium Dioxide)	13463-67-7	236-675-5	≥ 98

4 First aid measures

Inhalation	Move to fresh air. Seek medical advice if breathing difficulties occur.
Skin	Wash off with water and a mild cleanser.
Eyes	Do not rub. Rinse with plenty of water for 10–15 min. Seek medical advice if irritation persists.
Ingestion	Rinse mouth with water. Do not induce vomiting. Seek medical advice if unwell.
Most important symptoms	Mechanical eye irritation, coughing on dust inhalation.

5 Firefighting measures

Flammability	Non-combustible.
Extinguishing media	Water spray, foam, dry powder, CO_2 – appropriate to surrounding fire.
Hazardous combustion products	None under normal conditions.
Firefighter equipment	Self-contained breathing apparatus and protective clothing.

6 Accidental release measures

Personal precautions	Avoid dust formation and inhalation. Use protective equipment (section 8).
Environmental precautions	Do not allow to enter drains or water bodies.
Clean-up methods	Collect mechanically (vacuum with filter or damp wiping) and place in a closed container for disposal.

7 Handling and storage

Safe handling	Avoid dust formation. Ensure ventilation. Do not eat or drink while working. Wash hands after handling.
Storage conditions	in a dry place, in a tightly closed container, protected from direct sunlight, at +5...+30 °C
Incompatible materials	Strong oxidizers.

8 Exposure controls / personal protection

Occupational exposure limits	Titanium dioxide: 10 mg/m³ (inhalable), 4 mg/m³ (respirable).
Engineering controls	General and local exhaust ventilation.

Respiratory protection	FFP2 dust mask where dust is generated.
Eye protection	Safety glasses with side shields.
Hand protection	Nitrile gloves.

9 Physical and chemical properties

Physical state / appearance	fine powder
Color	white
Odor	odorless
Particle size	1500 nanometers
pH	6.5–8.5 (10 % suspension)
Melting point	≈ 1840 °C
Density	3.9–4.2 g/cm³
Bulk density	0.3–0.6 g/cm³
Solubility	dispersible in water and oil, triglycerides, in glycerin
Flash point	not applicable / > 100 °C
Explosive properties	none

10 Stability and reactivity

Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	None known.
Hazardous decomposition	None under normal conditions.

11 Toxicological information

Acute toxicity: LD50 oral (rat) > 10000 mg/kg. Not irritating to skin and eyes. Not a sensitizer. Titanium dioxide in powder form containing ≥ 1 % particles with aerodynamic diameter ≤ 10 µm is classified Carc. 2 (H351, inhalation) under Regulation (EU) 2020/217. Avoid dust formation and inhalation.

12 Ecological information

Inorganic mineral components, insoluble in water. Do not bioaccumulate; no acute aquatic toxicity expected (EC50/LC50 > 100 mg/L). Not PBT/vPvB.

13 Disposal considerations

Product	Dispose of in accordance with local regulations; do not discharge large quantities into drains.
Packaging	Dispose of or recycle empty packaging.

14 Transport information

UN number	Not applicable
ADR / RID / IMDG / IATA	Not regulated as dangerous goods.
Special precautions	None required.

15 Regulatory information

Regulation (EC) No 1907/2006 (REACH), Regulation (EC) No 1272/2008 (CLP). Colorants contained are listed in Annex IV of Regulation (EC) No 1223/2009 (cosmetic colorants).

16 Other information

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Note	The information reflects current knowledge and relates only to the product specified. It does not constitute a guarantee of properties for any specific application.