

# Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



## 43200 Nickel-Titanium Yellow

Page 1

Revised edition: 15.02.2024

Version: 4.0

Printed: 25.04.2024

---

### 1. Identification of the Substance/Mixture and of the Company/Undertaking

#### 1.1. Product Identifier

*Product Name:* Nickel-Titanium Yellow

*Article No.:* 43200

*UFI:* --

#### 1.2. Relevant identified Uses of the Substance or Mixture and Uses advised against

*Identified uses:*  
Coloring agent for dye and varnish industry

*Uses advised against:*

#### 1.3. Details of the Supplier of the Safety Data Sheet (Producer/Importer)

*Company:* Kremer Pigmente GmbH & Co. KG

*Address:* Hauptstr. 41-47, 88317 Aichstetten, Germany

*Tel./Fax.:* Tel +49 7565 914480, Fax +49 7565 1606

*Internet:* www.kremer-pigmente.com

*E-Mail:* info@kremer-pigmente.com

*Importer:* --

#### 1.4. Emergency No.

*Emergency No.:* +49 7565 914480 (Mon-Fri 8:00 - 17:00)

#### 1.4.2 Poison Center:

---

### 2. Hazards Identification

#### 2.1. Classification of the Substance or Mixture

*Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)*

*This product does not require classification and labelling as hazardous according to CLP/GHS.*

*Possible Environmental Effects:*

#### 2.2. Label Elements

*Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)*

*This product does not require classification and labelling as hazardous according to CLP/GHS.*

*Hazard designation:*

*Not applicable.*

*Signal word:*

*Hazard designation:*

*Safety designation:*

*Hazardous components for labelling:*

#### 2.3. Other Hazards

---

### 3. Composition/Information on Ingredients

next page: 2

# Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



## 43200 Nickel-Titanium Yellow

Page 2

Revised edition: 15.02.2024

Version: 4.0

Printed: 25.04.2024

---

### 3.1. Substance

### 3.2. Mixture

*Chemical Characterization:* Antimony nickel-titanium oxide yellow. Pigment Yellow, C.I. 77788

*Information on Components / Hazardous Ingredients:*

C.I. Pigment Yellow 53; REACH Reg. No. 01- 100 %  
2119491302-44-0000

CAS-Nr: 8007-18-9  
EINECS-Nr: 232-353-3  
EC-Nr:

---

*Additional information:*

---

## 4. First Aid Measures

### 4.1. Description of the First Aid Measures

*General information:*

*Remove contaminated clothes.  
First aiders: mind self-protection!*

*After inhalation:*

*Supply fresh air and seek medical advice in case of complaints.*

*After skin contact:*

*Remove contaminated clothing. Wash off immediately with plenty of water and soap.*

*After eye contact:*

*Rinse open eyes with plenty of water for at least 15 minutes.*

*After ingestion:*

*Do not induce vomiting. Consult physician immediately.*

### 4.2. Most important Symptoms and Effects, both Acute and Delayed

*Symptoms:*

*None known.*

*Effects:*

### 4.3. Indication of any Immediate Medical Attention and special Treatment needed

*Treatment:*

*Symptomatic treatment (decontamination, vital functions), no specific antidote known.*

---

## 5. Fire-Fighting Measures

### 5.1. Extinguishing Media

*Suitable extinguishing media:*

*Foam, carbon dioxide, water mist.*

*Unsuitable extinguishing media:*

*Water with full jet.*

### 5.2. Special Hazards arising from the Substance or Mixture

*Special hazards:*

*In case of fire: hazardous fumes may be released.*

next page: 3

# Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



## 43200 Nickel-Titanium Yellow

Page 3

Revised edition: 15.02.2024

Version: 4.0

Printed: 25.04.2024

---

*In case of fire: formation of carbon oxides, nitrogen oxides and fumes.*

### 5.3. Advice for Firefighters

*Protective equipment:*

*Wear self-contained respiratory protective device.*

*Further information:*

*Contaminated extinguishing water and debris should be disposed of according to local regulations.*

*Cool exposed containers with water spray.*

---

## 6. Accidental Release Measures

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

*Personal precautions:*

*Avoid formation of dust, wear protective clothing.*

*Avoid inhalation of dust.*

### 6.2. Environmental Precautions

*Environmental precautions:*

*Keep spills and cleaning runoff out of municipal sewers and open bodies of water.*

### 6.3. Methods and Material for Containment and Cleaning Up

*Methods and material:*

*Contain with non-flammable absorbent material (e.g. sand, diatomaceous earth, vermiculite) and dispose accordingly.*

*Do not use solvents for cleaning.*

### 6.4. Reference to other Sections

*Protective clothing, see Section 8.*

*Dispose of contaminated material according to Section 13.*

---

## 7. Handling and Storage

### 7.1. Precautions for Safe Handling

*Instructions on safe handling:*

*Wear adequate protective clothing (see para. 8).*

*Hygienic measures:*

*Do not inhale dust. Wash hands before breaks and at the end of work.*

*Remove contaminated clothing before entering dining areas.*

*Do not eat or drink during work. Do not smoke.*

### 7.2. Conditions for Safe Storage, including any Incompatibilities

*Storage conditions:*

*Store in tightly sealed containers in a dry room.*

*Protect against heat and direct sunlight.*

*Requirements for storage areas and containers:*

*Close open containers with care and store in an upright position to avoid spilling.*

*Information on fire and explosion*

next page: 4

# Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



## 43200 Nickel-Titanium Yellow

Page 4

Revised edition: 15.02.2024

Version: 4.0

Printed: 25.04.2024

*protection:*

*Product is not flammable.*

*Storage class:*

*13; Non combustible solids (TRGS 510)*

*Further Information:*

### 7.3. Specific End Use(s)

*Further information:*

## 8. Exposure Controls/Personal Protection

### 8.1. Parameters to be Controlled

*Parameters to be controlled (DE):*

*none known*

*Parameters to be controlled:*

*Derived No-Effect Level (DNEL):*

*4 mg/m<sup>3</sup> (worker, inhalation, long-term exposure - local effects)  
3 mg/m<sup>3</sup> (consumer, inhalation, long-term exposure - local effects)*

*Predicted No-Effect Concentration (PNEC):*

*Fresh water: 0.1 mg/l  
Seawater: 0.01 mg/l  
Sporadic release: 1 mg/l  
Sewage treatment system (STP): 568 mg/l*

*Additional Information:*

### 8.2. Exposure Controls

*Technical protective measures:*

*Provide adequate ventilation/exhaust system.*

*Personal Protection*

*General protective measures:*

*The usual precautionary measures are to be adhered to when handling chemicals.  
Protective clothing recommended due to the coloring effects of the product.  
Wash hands before breaks and after work.  
Wash contaminated clothes before reuse.*

*Respiratory protection:*

*In case of formation of dust/vapor. Particle filter Type P1 or FFP1 (solid particles of inert substances; EN 143, 149).*

*Hand protection:*

*Chemical protective gloves (EN 374 (Europe), F739 (US)).  
The manufacturer's directions for use should be observed because of the great diversity of types.*

*Protective glove material:*

*Recommended: Protective index 6, corresponding > 480 min. of  
next page: 5*

# Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



## 43200 Nickel-Titanium Yellow

Page 5

Revised edition: 15.02.2024

Version: 4.0

Printed: 25.04.2024

---

*permeation time according to EN 374.*

*Nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinyl chloride (0.7 mm).*

*Eye protection:*

*Safety glasses with protective shields (EN 166).*

*Body protection:*

*Staff should wear antistatic clothing made of natural fibers or heat-resistant synthetic fibers.*

*Environmental precautions:*

*Prevent from getting into the soil, surface water and sewage system.*

---

## 9. Physical and Chemical Properties

### 9.1. Information on Basic Physical and Chemical Properties

*Form:* powder

*Color:* yellow

*Odor:* odorless

*Odor threshold:*  
not determined

*pH-Value:* 7 - 8 (50 g/l, 20°C)

*Melting temperature:* > 1000°C

*Boiling temperature:*  
not applicable

*Flash point:*  
not applicable

*Evaporation rate:*  
This product is a non-volatile solid.

*Flammability (solid, gas):*  
not flammable

*Upper explosion limit:*  
no information available

*Lower explosion limit:*  
no information available

*Vapor pressure:*  
not applicable

*Vapor density:*  
This product is a non-volatile solid.

*Density:* 4.5 g/cm<sup>3</sup> (20°C; DIN 787-10)

*Solubility in water:* insoluble

*Coefficient of variation (n-Octanol/Water):*  
not applicable

next page: 6

# Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



## 43200 Nickel-Titanium Yellow

Page 6

Revised edition: 15.02.2024

Version: 4.0

Printed: 25.04.2024

*Auto-ignition temperature:*

*Product is not auto-ignitable (Test type: Spontaneous self-ignition at room temperature)*

*Decomposition temperature:*

*No decomposition if used according to specifications.*

*Viscosity, dynamic:*

*not applicable*

*Explosive properties:*

*Product does not present an explosion hazard.*

*Oxidizing properties:*

*not oxidizing*

*Bulk density:*

*588 kg/m<sup>3</sup>*

### 9.2. Further Information

*Solubility in solvents:*

*Viscosity, kinematic:*

*Burning class:*

*Solvent content:*

*Solid content:*

*Particle size:*

*Other information:*

*Self-heating ability: This product is not self-heating.*

*Hygroscopy: not hygroscopic*

## 10. Stability and Reactivity

### 10.1. Reactivity

*No decomposition if used according to specifications.*

### 10.2. Chemical Stability

*Stable if used according to specifications.*

### 10.3. Possibility of Hazardous Reactions

*None if handled and stored according to specifications.*

### 10.4. Conditions to Avoid

*Conditions to avoid:*

*May form hazardous decomposition products when exposed to high temperatures.*

*Thermal decomposition:*

### 10.5. Incompatible Materials

*Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.*

### 10.6. Hazardous Decomposition Products

*None if stored and handled according to specifications.*

### 10.7. Further Information

next page: 7

# Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



## 43200 Nickel-Titanium Yellow

Page 7

Revised edition: 15.02.2024

Version: 4.0

Printed: 25.04.2024

---

### 11. Toxicological Information

#### 11.1. Information on Hazard Classes as defined in Regulation (EC) No. 1272/2008

*Acute Toxicity*

*Practically not toxic after a single oral exposure.*

*LD50, oral:*

*> 10000 mg/kg (rat, m/f)*

*LD50, dermal:*

*not determined*

*LC50, inhalation:*

*not determined*

*Primary effects*

*Irritant effect on skin:*

*Non irritating (rabbit)*

*Irritant effect on eyes:*

*Non-irritating to eyes (rabbit)*

*Inhalation:*

*No information available.*

*Ingestion:*

*No information available*

*Sensitization:*

*Non sensitizing (guinea pig; OECD 406).*

*Mutagenicity:*

*Not mutagenic.*

*Reproductive toxicity:*

*No negative effects known.*

*Carcinogenicity:*

*No relevant data found.*

*Teratogenicity:*

*Did not show any teratogenic effects in animal studies.*

*Specific target organ toxicity (STOT):*

*Single exposure: no information available.*

*Repeated exposure: no information available.*

*Aspiration hazard:*

*No risk of aspiration.*

#### 11.2. Information on other Hazards

*Exposure to airborne concentrations above the legal or recommended limits may cause irritation to the nose, throat and lungs.*

*Endocrine Disrupting Properties: no information available.*

---

### 12. Ecological Information

#### 12.1. Aquatic Toxicity

*Not hazardous for aqueous organisms.*

next page: 8

# Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



## 43200 Nickel-Titanium Yellow

Page 8

Revised edition: 15.02.2024

Version: 4.0

Printed: 25.04.2024

*Fish toxicity:*

*Daphnia toxicity:*

*Bacteria toxicity:*

*Algae toxicity:*

### 12.2. Persistency and Degradability

*Inorganic substance. Biological degradability is not affected.  
The product is virtually insoluble in water and can thus be separated from water mechanically in suitable effluent treatment plants.*

### 12.3. Bioaccumulation

*Due to its low solubility the product may be removed from water mechanically in suitable effluent treatment plants.*

### 12.4. Mobility

*Adsorption to solid soil phase is not expected.*

### 12.5. Results of PBT- und vPvP Assessment

*According to Annex VIII to Regulation (EC) No. 1907/2006 (REACH): not applicable for inorganic substances.*

### 12.6. Endocrine Disrupting Properties

*No data available.*

### 12.7. Other Adverse Effects

*Water hazard class:*

*Not hazardous.*

*Behaviour in sewage systems:*

*No impairment of the biodegradability of active sludge expected when small amounts are discharged in biological sewage plants.*

*Further ecological effects:*

*AOX Value:*

*Product does not contain any organically bound halogen.*

## 13. Disposal Considerations

### 13.1. Waste Treatment Methods

*Product:*

*In accordance with current regulations, product may be taken to a waste disposal site or incineration plant, after consultation with site operator and/or with the responsible authority.  
Recover or recycle if possible.*

*European Waste Code (EWC):*

*Uncleaned packaging:*

*Non-contaminated packaging may be recycled.  
Contaminated packaging must be disposed like the substance.*

*Waste Code No.:*

## 14. Transport Information

### 14.1. UN Number

*ADR, IMDG, IATA*

next page: 9

# Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



## 43200 Nickel-Titanium Yellow

Page 9

Revised edition: 15.02.2024

Version: 4.0

Printed: 25.04.2024

---

### 14.2. UN Proper Shipping Name

ADR/RID:

*No hazardous goods according to ADR / DOT (US) (land transportation).*

IMDG/IATA:

*Not hazardous goods*

### 14.3. Transport Hazard Classes

ADR Class:

*not applicable*

Hazard no.:

Classification code:

Tunnel restriction code:

IMDG Class (sea):

*not applicable*

Hazard no.:

EmS No.:

IATA Class:

*not applicable*

Hazard no.:

### 14.4. Packaging Group

ADR/RID:

*not applicable*

IMDG:

IATA:

### 14.5. Environmental Hazards

*None*

### 14.6. Special Precautions for User

*Not classified as a dangerous good under transport regulations.*

### 14.7. Maritime Transport in Bulk according to IMO Instruments

*not evaluated*

### 14.8. Further Information

---

## 15. Regulatory Information

### 15.1. Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

Water hazard class:

*0, not hazardous (according to the German Regulation AwSV)*

Local regulations on chemical accidents:

*Seveso III: does not apply*

Employment restrictions:

Restriction and prohibition of application:

next page: 10

# Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



## 43200 Nickel-Titanium Yellow

Page 10

Revised edition: 15.02.2024

Version: 4.0

Printed: 25.04.2024

---

*EC. REACH, Section XVII, Restrictions on the Manufacture, Placing on the Market and Use of Certain Dangerous Substances, Preparations and Articles: No. 27*

*Technical instructions on air quality:*

*Classification II: 100 % inorganic dust*

### 15.2. Chemical Safety Assessment

*A Chemical Safety Assessment has been carried out for this product.*

### 15.3. Further Information

*EC. REACH, Annex XIV, Candidate List of Substances of very High Concern (SVHC): not regulated / not applicable*

*Regulation (EC) 1005/2009 - Substances that Deplete the Ozone Layer: not regulated / not applicable*

*Regulation (EC) 649/2012 concerning the export and import of dangerous chemicals: Not applicable*

*Regulation on Persistent Organic Polutants (POP): not listed*

*VOC Content: not applicable*

*Listed in the following inventories:*

*REACH (EU), TSCA (US), AIIC (AUS), DSL (CA), CSCL (JP), ECL (KR), NZIoC (NZ), PICCS (PH), IECSC (CN), TCSI (TW), TR*

---

### 16. Other Information

*This product should be stored, handled and used in accordance with good hygiene practices and in conformity with any legal regulations. This information contained herein is based on the present state of knowledge and is intended to describe our product from the point of view of safety requirements. It should be therefore not be construed as guaranteeing specific properties.*