

# Safety Data Sheet

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



## 43200 Nickel-Titanium Yellow

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Revised edition: 17.01.2019

Version: 4.0

Printed: 22.02.2021

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

#### 1.1. Product Identifier

*Product Name:* Nickel-Titanium Yellow

*Article No.:* 43200

#### 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:

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### 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

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### 3. Composition/Information on Ingredients

#### 3.1. Substance

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### 3.2. Mixture

*Chemical Characterization:* Antimony nickel-titanium oxide yellow

*Information on Components / Hazardous Ingredients:*

C.I. Pigment Yellow 53; REACH Reg. No. 01-2119491302-44-0000	100 %	CAS-Nr: 8007-18-9 EINECS-Nr: 232-353-3 EC-Nr:
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*Additional information:*

### 4. First Aid Measures

#### 4.1. Description of the First Aid Measures

*General information:*

*Remove contaminated clothes.*

*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:*

*Rinse mouth and give 200 - 300 ml of water to drink.*

#### 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:*

*Extinguishing powder, foam.*

*Unsuitable extinguishing media:*

*Carbon dioxide (CO<sub>2</sub>)*

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

*Special hazards:*

*No special hazards.*

#### 5.3. Advice for Firefighters

*Protective equipment:*

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*Wear self-contained respiratory protective device.*

*Further information:*

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

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### 6. Accidental Release Measures

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

*Personal precautions:*

*Avoid formation of dust, wear protective clothing.*

#### 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 dust binding material and dispose accordingly. Avoid dust formation.*

#### 6.4. Reference to other Sections

*Protective clothing, see Section 8.*

*Dispose of contaminated material according to Section 13.*

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### 7. Handling and Storage

#### 7.1. Precautions for Safe Handling

*Instructions on safe handling:*

*Respiratory protection when handling without exhaust system.*

*Hygienic measures:*

*Wash hands at the end of work. Preventive skin protection recommended.*

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

*Storage conditions:*

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

*Requirements for storage areas and containers:*

*Information on fire and explosion protection:*

*No special measures necessary.*

*Storage class:*

*13; Non combustible solids (TRGS 510)*

*Further Information:*

#### 7.3. Specific End Use(s)

*Further information:*

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### 8. Exposure Controls/Personal Protection

#### 8.1. Parameters to be Controlled

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### 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.

#### 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.

#### 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, > 480 min. of permeation time accord. 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:

#### Environmental precautions:

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## 9. Physical and Chemical Properties

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

Form: powder

Color: yellow

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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
Auto-ignition temperature:	Product is not auto-ignitable.
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:	ca. 588 kg/m <sup>3</sup>

### 9.2. Further Information

Solubility in solvents:

Viscosity, kinematic:

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*Burning class:*

*Solvent content:*

*Solid content:*

*Particle size:*

*Particle size distribution: 2.82 µm (D50, volume distribution)  
Partikel < 0.11 µm: 0.1 %; < 1.6 µm: ca. 50 %; < 6 µm: 100 %*

*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:*

*Avoid formation of dust.*

*Thermal decomposition:*

#### 10.5. Incompatible Materials

*None known.*

#### 10.6. Hazardous Decomposition Products

*None if stored and handled according to specifications.*

#### 10.7. Further Information

### 11. Toxicological Information

#### 11.1. Information on Toxicological Effects

*Acute Toxicity*

*Practically not toxic after a single oral exposure.*

*LD50, oral:*

*> 10000 mg/kg (rat)*

*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:*

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*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):*

*No specific target organ toxicity expected after a single exposure.*

*Repeated exposure: no toxicological effects.*

*Additional toxicological information:*

*Aspiration hazard: not applicable*

*This product is neither soluble in acids nor in alkaline solutions.*

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## 12. Ecological Information

### 12.1. Aquatic Toxicity

*Not hazardous for aqueous organisms.*

*Fish toxicity:*

*LC50: > 10000 mg/l (96h, *Leuciscus idus*)*

*Daphnia toxicity:*

*EC50: > 100 mg/l (48h, *Daphnia magna*; OECD 202)*

*NOEC: > 1 mg/l (21d, *Daphnia magna*; OECD 211)*

*Bacteria toxicity:*

*EC50: > 10000 mg/l (*Pseudomonas putida*)*

*Algae toxicity:*

*EC50: > 100 mg/l (72h, *Desmodesmus subspicatus*; OECD 201)*

### 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.*

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### 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. 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:*

*The product contains antimony, nickel.*

*The product contains heavy metals, which are firmly built in a matrix and are therefore not bioavailable. The local waste-water limit values are to be considered for the mentioned heavy metals.*

*The product does not contain any substances which can deplete the ozone layer, according to Regulation (EC) 1005/2009*

*AOX Value:*

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## 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.:*

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## 14. Transport Information

### 14.1. UN Number

*ADR, IMDG, IATA*

### 14.2. UN Proper Shipping Name

*ADR/RID:*

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

*IMDG/IATA:*

*No hazardous goods according to IMDG.*

### 14.3. Transport Hazard Classes

*ADR Class:*

*not applicable*

*Hazard no.:*

*Classification code:*

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*Tunnel restriction code:*

*IMDG Class (sea):*

*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. Transportation in Bulk according to Annex II of MARPOL 73/78 and IBC-Code

*not evaluated*

### 14. 8. Further Information

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## 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:*

*Not listed.*

*Employment restrictions:*

*Restriction and prohibition of application:*

*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:*

### 15. 2. Chemical Safety Assessment

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

### 15. 3. Further Information

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## 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.*