

Material Safety Data Sheet

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



43200 Nickel-Titanium Yellow

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Revised edition: 14.11.2014

Version: 3.0

Printed: 08.12.2015

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.de

E-Mail: info@kremer-pigmente.de

Importer: --

1.4. Emergency No.

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

2. Hazards Identification

2.1. Classification of the Substance or Mixture

Classification according to EC Regulation 1272/2008

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

Classification according to EC Regulation No. 67/548 or No. 1999/45

The material is not subject to classification according to EC lists.

Safety Phrases:

Possible Environmental Effects:

2.2. Label Elements

Classification according to EC Regulation 1272/2008

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:

Other Hazards

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2.3.

3. Composition/Information on Ingredients

3.1. Substance

3.2. Mixture

Chemical Characterization: Antimony nickel-titanium oxide yellow (CAS No. 8007-18-9, EINECS 232-353-3). Pigment Yellow 53. REACH Reg. No. 01-2119491302-44-0000

Hazardous Ingredients:

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 with water and drink plenty of water.

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 (CO₂)

5.2. Special Hazards arising from the Substance or Mixture

Special hazards:

No special hazards.

5.3. Advice for Firefighters

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Protective equipment:

Wear self-contained respiratory protective device.

Further information:

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

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.*

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 (VCI):

Further Information:

7.3. Specific End Use(s)

Further information:

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 (EC):

Derived No-Effect Level (DNEL):

*4 mg/m³ (worker, inhalation, long-term exposition - local effects)
3 mg/m³ (consumer, inhalation, long-term exposition - 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, EN 143 (solid particles of inert substances).

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:

9. Physical and Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

Form: powder

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<i>Color:</i>	<i>yellow</i>
<i>Odor:</i>	<i>odorless</i>
<i>Odor threshold:</i>	<i>No information available.</i>
<i>pH-Value:</i>	<i>7 - 8 (50 g/l, 20°C)</i>
<i>Melting temperature:</i>	<i>> 1000°C</i>
<i>Boiling temperature:</i>	<i>not applicable</i>
<i>Flash point:</i>	<i>not applicable</i>
<i>Evaporation rate:</i>	<i>This product is a non-volatile solid.</i>
<i>Flammability (solid, gas):</i>	<i>not flammable</i>
<i>Upper explosion limit:</i>	<i>no information available</i>
<i>Lower explosion limit:</i>	<i>no information available</i>
<i>Vapor pressure:</i>	<i>not applicable</i>
<i>Vapor density:</i>	<i>This product is a non-volatile solid.</i>
<i>Density:</i>	<i>4 g/cm³ (20°C; DIN 787-10)</i>
<i>Solubility in water:</i>	<i>insoluble</i>
<i>Coefficient of variation (n-Octanol/Water):</i>	<i>not applicable</i>
<i>Auto-ignition temperature:</i>	<i>Product is not auto-ignitable.</i>
<i>Decomposition temperature:</i>	<i>No decomposition if used according to specifications.</i>
<i>Viscosity, dynamic:</i>	<i>not applicable</i>
<i>Explosive properties:</i>	<i>Product does not present an explosion hazard.</i>
<i>Oxidizing properties:</i>	<i>not oxidizing</i>
<i>Bulk density:</i>	<i>ca. 588 kg/m³</i>

9.2. Further Information

Solubility in solvents:

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Viscosity, kinematic

Burning class:

Solvent content:

Solid content:

Particle size: 2.82 μm

Other information:

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

LD50, oral: > 10000 mg/kg

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

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Sensitization:

No information available.

Mutagenicity:

Not mutagenic.

Reproductive toxicity:

No negative effects known.

Cancerogenity:

No data available.

Teratogenicity:

Did not show any teratogenic effects in animal studies.

Specific target organ toxicity (STOT):

No specific target organic 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.

12. Ecological Information

12.1. Aquatic Toxicity

Not hazardous for aqueous organisms.

Fish toxicity:

LC50: > 10000 mg/l (96h)

Daphnia toxicity:

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

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

Bacteria toxicity:

EC50: > 10 000 mg/l (16h, 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

Not expected to adsorb on soil.

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

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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.

AOX Value:

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:

Uncontaminated packaging may be recycled.

Packaging may be disposed of in the same manner as the product.

Waste Code No.:

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:

Tunnel no.:

IMDG Class (sea):

Hazard no.:

EmS No.:

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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

15. Regulatory Information

15. 1. Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

Water hazard class:

0, not hazardous

Local regulations on chemical accidents:

Employment restrictions:

Restriction and prohibition of application:

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

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.