

SAFETY DATA SHEET

info@deffner-johann.de | +49 (0)9723 9350-0

Die in diesem Produktdatenblatt genannten Spezifikationen dienen nur zur Produktbeschreibung und beziehen sich auf den Zeitpunkt unmittelbar nach der Produktion bzw. Import des Produktes. Sie entsprechen den Angaben des Herstellers. Eine rechtsverbindliche Zusicherung bestimmter Eigenschaften oder der Eignung für einen bestimmten Einsatzzweck kann hieraus nicht abgeleitet werden. Durch unsachgemäßen Transport und / oder unsachgemäße Lagerung können sich Änderungen ergeben. Die Angaben in diesem Produktdatenblatt entbinden den Verarbeiter nicht von eigener Prüfung der Eigenschaften des Produktes und dessen Eignung für die vorgesehene Verwendung.

Trade name: Nickeltitangelb

Print date: 04.03.20

Version: 4 / DE

Date revised: 04.03.2020

Replaces Version: 3 / DE

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Nickeltitangelb

Registration no.

EC No.: 232-353-3
Registration no. 01-2119491302-44-XXXX
CAS No. 8007-18-9

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/preparation

Colourant

1.3. Details of the supplier of the safety data sheet

Adresse:

Deffner & Johann GmbH
Mühläckerstraße 13
D-97520 Röhlein
Tel.: +49 (0) 9723 9350-0
Fax: +49 (0) 9723 9350-25
E-Mail-Adresse: info@deffner-johann.de

1.4 Notfall-Nummer: +49 (0) 9723 9350-0 (Mo. – Fr. 7:30 – 15:00 Uhr)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Voluntary product information following the Safety Data Sheet format
This product is not classified hazardous in accordance with Regulation (EC) No 1272/2008.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

The product does not require a hazard warning label in accordance with Regulation (EC) No 1272/2008.

2.3. Other hazards

Dust loading

SECTION 3: Composition/information on ingredients

3.1. Substances

Chemical characterization

Antimony nickel titanium oxide yellow; CAS-No.: 8007-18-9; EC-No: 232-353-3; REACH-Reg.-No.: 01-2119491302-44-XXXX

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of persistent symptoms consult doctor.

After inhalation

Remove the casualty into fresh air and keep him calm. In the event of symptoms take medical treatment.

After skin contact

Wash off immediately with soap and water. Consult a doctor if skin irritation persists.

After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Seek medical advice immediately.

After ingestion

Trade name: Nickeltitangelb

Print date: 04.03.20

Version: 4 / DE

Date revised: 04.03.2020

Replaces Version: 3 / DE

Rinse mouth thoroughly with water. Call in a physician immediately and show him the Safety Data Sheet.

Adhere to personal protective measures when giving first aid

First aider: Pay attention to self-protection!

4.2. Most important symptoms and effects, both acute and delayed

Until now no symptoms known so far.

4.3. Indication of any immediate medical attention and special treatment needed

Hints for the physician / treatment

Treat symptomatically

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Dry powder, Foam

Non suitable extinguishing media

Carbon dioxide

5.2. Special hazards arising from the substance or mixture

In the event of fire the following can be released: Irritant and harmful combustion products.

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Use self-contained breathing apparatus. Wear full protective suit.

Other information

Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Do not inhale dust. Use breathing apparatus if exposed to vapours/dust/aerosol. Ensure adequate ventilation. Use personal protective clothing. High risk of slipping due to leakage/spillage of product. Refer to protective measures listed in Sections 7 and 8. Remove persons to safety.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil. Retain and dispose of contaminated wash water.

6.3. Methods and material for containment and cleaning up

Avoid raising dust. Pick up mechanically. When picked up, treat material as prescribed under Section 13 "Disposal".

6.4. Reference to other sections

Information regarding Safe handling, see Section 7. Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid the formation and deposition of dust. Provide exhaust ventilation if dust is formed. Ensure adequate ventilation. Handle and open container with care. Provide suitable exhaust ventilation at the processing machines. Use breathing apparatus when transferring large quantities without exhaust ventilation facilities. If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn. Observe the usual precautions for handling chemicals.

Advice on protection against fire and explosion

No special measures required.

7.2. Conditions for safe storage, including any incompatibilities

Hints on storage assembly

Do not store together with foodstuffs.

Storage class according to TRGS 510

Storage class according to TRGS 13

Non- combustible solids

Trade name: **Nickeltitangelb**

Print date: **04.03.20**

Version: **4 / DE**

Date revised: **04.03.2020**

Replaces Version: **3 / DE**

510

Further information on storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place. Protect from direct sunlight. Protect from extreme heat and cold.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

Antimony nickel titanium oxide yellow

List TRGS 900
Value 0,03 mg/m³

Maximum limit value: 8(II); Skin resorption / sensibilisation: Sh; Pregnancy group: Y; Status: 05/2018; Remarks: Nickel und Nickelverbindungen (als Ni), einatembare Fraktion, AGS, 24

Other information

TRGS 900: Observe the general dust threshold.

Derived No/Minimal Effect Levels (DNEL/DMEL)

Antimony nickel titanium oxide yellow

Reference substance	Antimony nickel titanium oxide yellow		
Type of value	Derived No Effect Level (DNEL)		
Reference group	Worker		
Duration of exposure	Long term		
Route of exposure	inhalative		
Mode of action	Local effects		
Concentration	to	4	mg/m ³
Source	Literature value		

	Antimony nickel titanium oxide yellow		
Type of value	Derived No Effect Level (DNEL)		
Reference group	Consumer		
Duration of exposure	Long term		
Route of exposure	inhalative		
Mode of action	Local effects		
Concentration	to	3	mg/m ³
Source	Literature value		

Predicted No Effect Concentration (PNEC)

Antimony nickel titanium oxide yellow

Reference substance	Antimony nickel titanium oxide yellow		
Type of value	PNEC		
Type	Freshwater		
Concentration	to	0,1	mg/l
Source	Literature value		

	Antimony nickel titanium oxide yellow		
Type of value	PNEC		
Type	Saltwater		
Concentration	to	0,01	mg/l

	Antimony nickel titanium oxide yellow		
Type of value	PNEC		
Conditions	Intermittent		
Concentration	to	1	mg/m ³
Source	Literature value		

	Antimony nickel titanium oxide yellow		
Type of value	PNEC		
Type	Sewage treatment plant (STP)		
Concentration	to	568	mg/l
Source	Literature value		

Trade name: **Nickeltitangelb**

Print date: **04.03.20**

Version: **4 / DE**

Date revised: **04.03.2020**

Replaces Version: **3 / DE**

8.2. Exposure controls

General protective and hygiene measures

Do not inhale dust/fumes/aerosols. Avoid contact with skin and eyes. Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Wash hands before breaks and after work. Use barrier skin cream. Observe the usual precautions for handling chemicals. Take off immediately all contaminated clothing.

Respiratory protection

If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn. Particle filter P2; Use breathing apparatus in dust-laden atmosphere.

Hand protection

Protective gloves

Observe the information of the glove manufacturers on permeability and breakthrough times and other workplace requirements.

Eye protection

Safety glasses with side protection shield

Body protection

Clothing as usual in the chemical industry.

SECTION 9: Physical and chemical properties ***

9.1. Information on basic physical and chemical properties

Form	Powder		
Colour	see tradename		
Odour	characteristic		
Odour threshold	not determined		
Remarks			
pH value			
Value	7	to	8
Concentration/H ₂ O	50	g/l	
Temperature	20	°C	
Source	Literature value		
Melting point			
Value	> 1000		°C
Source	Literature value		
Freezing point			
Remarks	not determined		
Initial boiling point and boiling range			
Remarks	Not applicable		
Flash point			
Remarks	Not applicable		
Evaporation rate			
Remarks	Not applicable		
Evaporation rate (ether = 1) :			
Remarks	not determined		
Flammability (solid, gas)			
Not ignitable			
Source	Literature value		
Upper/lower flammability or explosive limits ***			
Remarks	For solids not relevant for classification and labeling.		
Vapour pressure			
Remarks	Not applicable		
Vapour density			
Remarks	Not applicable		
Density			
Value	4,61		g/cm ³
Temperature	20	°C	
Source	Literature value		
Solubility in water			
Remarks	insoluble		

Safety data sheet in accordance with regulation (EC) No 1907/2006

Trade name: Nickeltitangelb

Print date: 04.03.20

Version: 4 / DE

Date revised: 04.03.2020

Replaces Version: 3 / DE

Source	Literature value	
Solubility(ies)		
Remarks	not determined	
Partition coefficient: n-octanol/water		
Remarks	not determined	
Ignition temperature		
Remarks	not determined	
Auto-ignition temperature		
Remarks	not self-flammable	
Source	Literature value	
Decomposition temperature		
Remarks	No decomposition if used as prescribed.	
Viscosity		
Remarks	not determined	
Explosive properties		
evaluation	no	
Oxidising properties		
Remarks	not known	
Source	Literature value	
9.2. Other information		
Bulk density		
Value	appr. 800	kg/m ³
Source	Literature value	
Other information		
The physical data is that of the pure product.		

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reactions when stored and handled according to prescribed instructions.

10.2. Chemical stability

Stable under recommended storage and handling conditions (see section 7).

10.3. Possibility of hazardous reactions

When used as recommended, no hazardous reactions are expected.

10.4. Conditions to avoid

Avoid creating dusty conditions.

Decomposition temperature

Remarks No decomposition if used as prescribed.

10.5. Incompatible materials

No hazardous reactions when stored and handled according to prescribed instructions.

10.6. Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information ***

11.1. Information on toxicological effects

Acute oral toxicity

Species	rat	
LD50	> 10000	mg/kg
Source	Literature value	
Source	experimental/calculated data	

Acute dermal toxicity

Remarks not determined

Acute inhalational toxicity

Remarks not determined

Safety data sheet in accordance with regulation (EC) No 1907/2006Trade name: **Nickeltitangelb**Print date: **04.03.20**Version: **4 / DE**Date revised: **04.03.2020**Replaces Version: **3 / DE****Skin corrosion/irritation**

Species rabbit
evaluation non-irritant
Source Literature value
Source experimental/calculated data
Remarks Frequent persistent contact with the skin can cause skin irritation.

Serious eye damage/irritation

Species rabbit
evaluation non-irritant
Source Literature value
Source experimental/calculated data
Remarks Eye contact with the product may lead to irritation.

Sensitization ***

Species guinea pig
evaluation non-sensitizing
Method OECD 406
Remarks The product has not been tested. The statement has been derived from the properties of the individual components.
Source Literature value

Mutagenicity

evaluation No experimental information on genotoxicity in vitro available.
Source Literature value

Reproductive toxicity

Remarks Indications of toxic effects are available from reproduction studies in animals.
Source Literature value

Carcinogenicity

Remarks not determined

Specific Target Organ Toxicity (STOT)

evaluation No indications of STOT effects are available.
Source Literature value

SECTION 12: Ecological information**12.1. Toxicity****General information**

Avoid entry in the environment.

Fish toxicity

Species golden orfe (*Leuciscus idus*)
LC50 > 10000 mg/l
Duration of exposure 96 h
Method DIN 38412 / Part 15
Remarks The details of the toxic effect relate to the nominal concentration.
Remarks The product was tested above its maximum solubility.
Source Literature value

Daphnia toxicity

Species *Daphnia magna*
EC50 > 100 mg/l
Duration of exposure 48 h
Method OECD 202
Remarks The product is slightly soluble in the test medium. An eluate was tested.
Remarks The details of the toxic effect relate to the nominal concentration.
Source Literature value

Algae toxicity

EC50 > 100 mg/l
Duration of exposure 72 h
Method OECD 201
Remarks The product is slightly soluble in the test medium. An eluate was tested.
Source Spezies: *Desmodesmus subspicatus*
Remarks The details of the toxic effect relate to the nominal concentration.
Source Literature value

Bacteria toxicity

Safety data sheet in accordance with regulation (EC) No 1907/2006

Trade name: **Nickeltitangelb**

Print date: **04.03.20**

Version: **4 / DE**

Date revised: **04.03.2020**

Replaces Version: **3 / DE**

Species	Pseudomonas putida	
EC50	> 10000	mg/l
Method	DIN 38412 / Part 27	
Remarks	The product is slightly soluble in the test medium. An eluate was tested.	
Remarks	The details of the toxic effect relate to the nominal concentration.	
Source	Literature value	

12.2. Persistence and degradability

Biodegradability

Remarks Slightly water-soluble, it can be removed to a large extent in a chemical purification plant.

12.3. Bioaccumulative potential

General information

The product has not been tested. Because of the product's consistency and lack of solubility in water bioavailability is not likely.

Partition coefficient: n-octanol/water

Remarks not determined

12.4. Mobility in soil

General information

not determined

12.5. Results of PBT and vPvB assessment

General information

Not applicable

12.6. Other adverse effects

Behaviour in sewers [waste treatment plants]

When low concentrations are discharged correctly into adapted biological sewage treatment plants, disturbance of the degradation activity of activated sludge is not likely. Obtain approval of the appropriate authorities before discharging into sewage treatment plants.

General information / ecology

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.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

Product should be taken to a suitable and authorized waste disposal site in accordance with relevant regulations and if necessary after consultation with the waste disposal operator and/or the competent Authorities.

Disposal recommendations for packaging

Packaging that cannot be cleaned should be disposed off as product waste.
Uncontaminated packaging may be taken for recycling.

SECTION 14: Transport information

Land transport ADR/RID

The product does not constitute a hazardous substance in land transport.

Marine transport IMDG/GGVSee

The product does not constitute a hazardous substance in sea transport.

Air transport ICAO/IATA

The product does not constitute a hazardous substance in air transport.

SECTION 15: Regulatory information ***

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Water Hazard Class (Germany) ***

Water Hazard Class (Germany) Not water hazardous

Safety data sheet in accordance with regulation (EC) No 1907/2006

Trade name: Nickeltitangelb

Print date: 04.03.20

Version: 4 / DE

Date revised: 04.03.2020

Replaces Version: 3 / DE

Remarks

Classification acc. §6 (4) AwSV

15.2. Chemical safety assessment

For this substance a chemical safety assessment has been carried out.

SECTION 16: Other information

Abbreviations

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route

AGW: Arbeitsplatzgrenzwert

AwSV: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances that are hazardous to water)

BGW: Biologischer Grenzwert

CAS: Chemical Abstracts Service

DNEL: Derived no effect level

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

GGVSee: Gefahrgutverordnung See

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

IMDG: International Maritime Code for Dangerous Goods

LC: Lethal concentration

LD: Lethal dose

MAK: Maximale Arbeitsplatz-Konzentration

NOEC: No observable effect concentration

NOEL: No observable effect level

OECD: Organisation for Economic Co-operation and Development

OEL: Occupational exposure limit

PBT: Persistent, Bioaccumulative and Toxic

PNEC: Predicted no effect concentration

RID: Règlement concernant le transport international ferroviaire de marchandises dangereuses

TRGS: Technische Regeln für Gefahrstoffe

VDI: Verein Deutscher Ingenieure

VLEP: Valeurs Limites d'exposition Professionnelle

vPvB: Very persistent and very bioaccumulative

WGK: Wassergefährdungsklasse (water hazard class)

Supplemental information

These data is based on our present knowledge and experience respectively supplier-information. This safety data sheet describes the product in regard to the requirements of safety. The information does not represent a assurance for certain properties. Existing laws and regulations are to be observed by the recipient of our products in own responsibility. It is the responsibility of the user, to determine if the product is suitable for the deliberate operational area and the respective intended purpose. A liability for damages in connection with the use of this information is excluded. Relevant changes compared with the previous version of the safety data sheet are marked with: ***