

Revised edition: 19.09.2012

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

### *Product Identifier*

Product Name: Naples Yellow, dark  
Article No.: 43125  
Use of the Substance/Preparation: Artists' and Restoration Material

### *Details of the Supplier of the Safety Data Sheet*

Company: Kremer Pigmente GmbH & Co. KG  
Address: Hauptstrasse 41-47, D 88317 Aichstetten  
Tel/Fax: Tel +49 7565 914480, Fax +49 7565 1606  
Internet: www.kremer-pigmente.de, kremer-pigmente@t-online.de

## 2. Hazard Identification

### *Classification according to EC Regulation No.1272/2008*

GHS Classification  
Reproductive toxicity, category 1A  
Acute toxicity (inhalation), hazard category 4  
Acute toxicity (oral), hazard category 4  
Specific target organ toxicity (repeated exposure), category 2  
Hazardous to the aquatic environment, acute category 1  
Hazardous to the aquatic environment, chronic category 1

Hazard designation:



GHS08



GHS07



GHS09

Signal word:

Danger

Hazard designation:

H373 May cause damage to organs through prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

H360 May damage fertility or the unborn child.

H332 Harmful if inhaled.

H302 Harmful if swallowed.

Safety designation:

P273 Avoid release to the environment.

P201 Obtain special instructions before use.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P501 Dispose of contents/container according to regional, national and international regulations.

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

Hazard designation:



N Hazardous to the environment

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Hazard designation:



T, Repr. C. 3 Very toxic

Risk Phrases:

R53 May cause long-term adverse effects in the aquatic environment.  
R50 Very toxic to aquatic organisms.  
R20 Harmful by inhalation.  
R62 Possible risk of impaired fertility.  
R33 Danger of cumulative effects.  
R61 May cause harm to the unborn child.  
R22 Harmful if swallowed.

Safety Phrases:

S53 Avoid exposure - obtain special instructions before use.  
Restricted to professional users.  
S61 Avoid release to the environment. Refer to special instructions /  
Safety data sheets.  
S60 This material and its container must be disposed of as hazardous  
waste.  
S45 If swallowed, seek medical advice immediately and show this  
container or label.

### 3. Composition/Information on Ingredients

Chemical Characterization:

Artificial mineral pigment. Lead antimonate, Pb<sub>2</sub>Sb<sub>2</sub>O<sub>7</sub>.  
C.I. Pigment Yellow 41

Hazardous Ingredients:

Pyrochlore, antimony lead yellow  
CAS-Nr: 8012-00-8 EINECS-Nr: 232-382-1 EC-Nr: 082-001-00-6

### 4. First Aid Measures

#### *Description of the First Aid Measures*

After inhalation:

Supply fresh air. Consult physician if symptoms persist.  
Get medical help.  
In case of unconsciousness place patient stable in side position for  
transportation.

After skin contact:

Wash off immediately with plenty of soap and water and rinse  
thoroughly.

After eye contact:

Rinse open eye for several minutes under running water. Should  
irritation continue, seek medical advice.

After ingestion:

Get medical help.  
Show product label to person applying first aid.

General information:

Take person away from hazardous area.  
Immediately get medical help.

#### *Most Important Symptoms and Effects, both Acute and Delayed*

Possible symptoms:

See Chapter 11 for further information on symptoms and health  
hazards.

#### *Indication of any Immediate Medical Attention and Special Treatment needed*

Information for physician:

Treat symptomatically.  
Blood and urine tests can determine the amount of lead.

## 5. Fire-Fighting Measures

### *Extinguishing Media*

Suitable extinguishing media: Foam, carbon dioxide (CO<sub>2</sub>), extinguishing powder, water jet.

### *Special Hazards arising from the Substance or Mixture*

Special hazards: In case of fire: formation of lead oxide.  
Respiratory protection necessary.

### *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.

## 6. Accidental Release Measures

### *Personal Precautions, Protective Equipment and Emergency Procedures*

Personal precautions: Avoid formation of dust.  
Wear appropriate protective equipment. Keep spectators away.  
Do not breathe vapors/dust.

Environmental precautions: Prevent contamination of soil, drains and surface waters.

Methods and material for containment and cleaning up: Avoid dust formation.  
Take up mechanically and collect in suitable containers for disposal.  
Avoid dust formation.  
Use damp or absorbing material for clean up.

## 7. Handling and Storage

### *Precautions for Safe Handling*

Instructions on safe handling: Keep out of reach of children.  
Information on fire and explosion protection: Product is not combustible.

### *Conditions for Safe Storage, including any Incompatibilities*

Storage conditions: Store in roofed-in areas at room temperature.  
Store in a cool and dry place.  
Store in tightly sealed containers in a dry room.  
Do not store together with food stuff and animal feed.

Storage class (VCI): 6.1 B; Non combustible toxic products.

## 8. Exposure Controls/Personal Protection

Technical protective measures: Adequate ventilation.  
No further measures, see Section 7.

Parameters to be controlled (DE): TWA: 0.15 mg/m<sup>3</sup> (inhalable dust fraction) based on lead.  
Besides staying within the average concentration amount per shift, exposure limits as an average value cannot exceed the 1 mg/m<sup>3</sup> over 30 minutes per shift.

Additional information: The biological workplace tolerance (BAT) is 300 µg/l for women up to 45 yrs. and 700 µg/l for others.

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### *Personal Protective Equipment*

General protective measures:	Do not inhale dust. Do not eat, drink or smoke while working. Wash hands before breaks and at the end of work.
Respiratory protection:	Wear protective mask, particle filter P2 (for solid and liquid particles DIN 3181) if dust occurs.
Hand protection:	Protective gloves (EN 374)
Eye protection:	Safety glasses
Body protection:	Protective clothing.

## 9. Physical and Chemical Properties

### *Information on Basic Physical and Chemical Properties*

Form:	powder
Color:	yellow, deep
Odor:	odorless
Odor threshold:	No information available.
Melting temperature:	not known
Boiling temperature:	not available
Flash point:	not combustible
Evaporation rate:	No information available.
Ignition temperature:	non-combustible
Explosion risk:	Risk of explosion when exposed to heat.
Vapor pressure:	not determined
Density:	7.94 g/cm <sup>3</sup>
Solubility in water:	practically insoluble
Viscosity dynamic:	not applicable
Oxidizing properties:	No information available.
Vapor density:	no information available

## 10. Stability and Reactivity

Reactivity:	Can decompose at excessive heat.
Chemical stability:	No decomposition if used according to specifications.
Hazardous reactions:	Reacts with strong oxidants. Reacts with acids Reacts with strong alkali metals, reducing agents, halogens.
Conditions to avoid:	Avoid heat.
Incompatible materials:	Keep away from strong oxidizing agents, reducing agents, alkali metals, acids, halogens.
Hazardous decomposition products:	Lead, lead oxides, lead compounds.

## 11. Toxicological Information

### *Acute Toxicity*

LD50, oral: Bas. Lead carbonate: >10000 mg/kg (rat) (Lit.)

### *Primary effects*

Irritant effect on skin: Non irritating (rabbit)

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Irritant effect on eyes:	Non-irritating to eyes (rabbit)
Chronic toxicity:	Lead compounds are hardly soluble.
Reproductive toxicity:	Lead metal: the risk that this substance can impair the human fertility is given.
Cancerogenity:	Not sufficient information available.
Mutagenicity:	Lead metal: no detailed information available.
Specific target organ toxicity (STOT):	Repeated exposure: may cause damage to organs.
Further toxicological effects:	Lead compounds are heavy soluble compounds, however, lead particles dissolve in hydrochloric acid in gastric fluids concentration and may accumulate in the body. Prolonged over-exposure to lead compounds may interfere with the biosynthesis of haemoglobin and may cause irreversible disorders of the nervous system.

### 12. Ecological Information

Persistency and Degradability:	Lead may be dissolved in acid or alkaline media (amphothery). Elimination from water must be done by chemical flocculation.
Bioaccumulation:	The product contains lead. Any exposure to the environment must be eliminated. Special treatment is necessary before disposing of the product or its by-products or contaminated water.
Mobility:	The product is almost completely insoluble.
<i>Ecological effects</i>	
Aquatic toxicity:	Toxic for aquatic organisms. May cause long-term adverse effects in the aquatic environment.
Further ecological effects:	General information for lead compounds: Toxic to water organisms.
<i>Further information</i>	
Water hazard class:	3

### 13. Disposal Considerations

<i>Waste Treatment Methods</i>	
Product:	In accordance with current regulations, product has to be taken to a special waste disposal site, after consultation with site operator and/or with the responsible authority. Product may not be burned.
Uncleaned packaging:	Untampered packaging may be disposed of in the same manner as the product. Untampered packaging may be recycled.

### 14. Transport Information

<i>Road Transportation ADR/RID</i>	
Class:	6.1
Packaging group:	III
UN No.:	2291
Classification code:	T5

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Tunnel No.: E  
Hazard No.: 6.1  
Correct technical name: LEAD COMPOUND, SOLUBLE, N.O.S. (Lead Antimony Compound)

*Sea transportation*

IMDG/GGVSee Class: 6.1  
Packaging group: III  
UN No.: 2291  
EmS No.: F-A, S-A  
Hazard No.: 6.1  
Marine pollutant: P  
Correct technical name: LEAD COMPOUND, SOLUBLE, N.O.S. (Lead Antimony Compound)

*Air transportation*

ICAO/IATA Class: 6.1  
Packaging group: III  
UN No.: 2291  
Hazard No.: 6.1  
Correct technical name: LEAD COMPOUND, SOLUBLE, N.O.S. (Lead Antimony Compound)

**15. Regulatory Information**

*Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture*

:

Employment restrictions: The employment restrictions for expectant and nursing mothers in accordance with the Maternity Protection Guideline (94/85/EEC) are to be observed.

The employment restrictions for young workers in accordance with the Youth Employment Protection Law (94/33/EC) are to be observed.

Technical instructions on air quality: 5.2.2.: Inorganic dusty substances, class II

Water hazard class: 3, very hazardous for water

*Chemical Safety Assessment*

Chemical safety assessment: A Chemical Safety Assessment has not been carried out for this product.

**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.