

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


Identification of the Product

Product Name: Lead Tin Yellow, light
Article No.: 10100
Use of the Substance/Preparation: Artists' and Restoration Material

Company

Company: Kremer Pigmente GmbH & Co. KG
Address: Hauptstrasse 41-47, D 88317 Aichstetten
Tel/Fax: Tel +49 7565 91120, Fax +49 7565 1606
Internet: www.kremer-pigmente.de, kremer-pigmente@t-online.de

2. Hazard Identification

Hazard designation:  N Hazardous to the environment



T, Repr. C. 1 + 3 Very toxic

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

3. Composition/Information on Ingredients

Chemical Characterization: Lead stannate, PbSnxOy
Hazardous Ingredients: Pyrochlore, antimony lead yellow 100%
CAS-Nr: 8012-00-8 EINECS-Nr: 232-382-1 EC-Nr: 082-001-00-6

4. First Aid Measures

After inhalation: Take affected person to fresh air.
Get medical help.
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.
Information for physician: Blood and urine tests can determine the amount of lead.

5. Fire-Fighting Measures

Suitable extinguishing media: Foam, carbon dioxide (CO₂), extinguishing powder, water jet.

Protective equipment: Use self-containing breathing apparatus.
Special hazards: Respiratory protection necessary.
Further information: Contaminated extinguishing water and debris should be disposed of according to local regulations.

6. Accidental Release Measures

Personal precautions: Avoid dust formation.
Wear appropriate protective equipment. Keep spectators away.
Environmental precautions: Prevent contamination of soil, drains and surface waters.
Methods of cleaning/absorption: Avoid dust formation.
Use damp or absorbing material for clean up.

7. Handling and Storage

Handling

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

Storage

Storage conditions: Store in roofed-in areas at room temperature.
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

Additional information about design of technical systems: No further measures, see Section 7.
Components with workplace control parameters (Germany): Lead and its compounds (referring to the lead content) is 0.1 mg/m³ air (total dust value).
Besides staying within the average concentration amount per shift, exposure limits as an average value cannot exceed the 1 mg/m³ 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.

Personal protective equipment

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

9. Physical and Chemical Properties

Form: powder
Color: pale yellow
Odor: odorless

Melting temperature:	nicht bekannt not known
Boiling temperature:	nicht bekannt not available
Flash point:	nicht entflammbar not combustible
Density:	8,0 g/cm ³
Solubility in water:	practically insoluble

10. Stability and Reactivity

Hazardous decomposition products:	None if stored and handled according to specifications.
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11. Toxicological Information

Acute toxicity

LD50, oral:	Bas. Bleicarbonat: > 10.000 mg/kg (rat) (Lit.)
LD50, dermal:	Blei(II)oxid: 220 mg/kg (guinea pig) (Merck Index)

Primary effects

Irritant effect on skin:	Non irritating (rabbit)
Irritant effect on eyes:	Non-irritating to eyes (rabbit)
Chronic toxicity:	Lead compounds are hardly soluble.

Further toxicological effects:	Lead compounds are heavy soluble lead compounds, however, lead particles solve 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. Values for this product are unknown. The results refer to those of lead white.
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12. Ecological Information

Elimination (Persistency and Degradability):	Lead may be dissolved in acid or alkaline media (amphothery). Elimination from water must be done by chemical flocculation.
Environmental Behaviour:	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.

Further information

Water hazard class:	1
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13. Disposal Considerations

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:	Dispose according to product. Clean packaging material can be recycled.

14. Transport Information

Road Transportation ADR/RID

Class: 6.1
Packaging group: III
UN No.: 2291
Classification code: T5
Tunnel No.: E
Hazard No.: 6.1
Correct technical name: LEAD COMPOUND, SOLUBLE, N.O.S. (Lead Stannate)

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 Stannate)

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 Stannate)

15. Regulatory Information

Hazard designation:



N Hazardous to the environment



T, Repr. C. 1 + 3 Very toxic

Risk Phrases:

R61 May cause harm to the unborn child.
R20 Harmful by inhalation.
R22 Harmful if swallowed.
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R53 May cause long-term adverse effects in the aquatic environment.
R62 Possible risk of impaired fertility.
R50 Very toxic to aquatic organisms.
Safety Phrases:
S45 If swallowed, seek medical advice immediately and show this container or label.
S61 Avoid release to the environment. Refer to special instructions / Safety data sheets.
S53 Avoid exposure - obtain special instructions before use.
Restricted to professional users.

Safety Phrases:	S60 This material and its container must be disposed of as hazardous waste.
Employment restrictions:	Concerning pregnancy: group B (TRGS 505, TRGS 900, Germany)
Technical instructions on air quality:	Klasse III, Anteil in %: 80 (Pb)

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.