



L. CORNELISSEN & SON

Artists' Colourmen

Suppliers of Materials for Painters, Gilders & Printmakers

Safety Data Sheet according to Directive 91/155/EC

Revision Date: October 2013

1) Identification of the substance/preparation and the company

Trade Name: Cornelissen Lead Based Pigments. Includes: Naples Yellow Dark Genuine, Naples Yellow Light Genuine, Red Lead, Flake White.

Application: Artists' Pigment

Manufacturer/Supplier:

L Cornelissen & Son Ltd
105 Great Russell Street
London WC1B 3RY

Tel: 020 7636 1045

Fax: 020 7636 3655

www.cornelissen.com

2) Composition/Information on ingredients

Flake White

Lead Carbonate trilead bis (carbonate) dihydroxide

CAS No: 1319-46-6

EINECS No: 215-290-6

Lead Red

Lead (II, IV) Oxide

CAS No: 1314-41-6

EINECS No: 215-235-6

Naples Yellow Genuine Dark and Light

Lead-antimony compound

CAS No: 8012-00-8

3) Hazards Identification

Hazard Description



T Toxic



N Dangerous to the environment

Information concerning particular hazards to man and the environment

R61	May cause harm to the unborn child
R62	Possible risk of impaired fertility
R20/22	Harmful by inhalation and if swallowed
R33	Danger of cumulative effects
R50/53	Very toxic to aquatic organisms, may cause long-term effects in the aquatic environment

Prevention:

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Wash thoroughly after handling.

Do not eat drink or smoke when using this product.

Avoid release to the environment.

Use personal protective equipment as required.

Response:

If swallowed: Call a poison centre or doctor if you feel unwell.

If inhaled: Remove to fresh air and keep at rest in a position comfortable for breathing.

If exposed or concerned: Get medical advice/attention.

Storage: Store in a well-ventilated place. Keep container tightly closed.

Disposal: Dispose in accordance with local and national regulations.

4) First Aid Measures

General Information: Symptoms of poisoning may occur after several hours. Medical observation is required for at least 48 hours after an accident.

Inhalation: Supply fresh air. If required provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient in stable side position for transportation.

Ingestion: Seek medical treatment. Rinse mouth with water. Show this sheet to doctor

Eyes: Rinse opened eye for several minutes under running water. Then consult a doctor.

Skin: Remove contaminated clothing. Wash with water and soap and rinse thoroughly. If irritation continues consult a doctor.

5) Fire Fighting Measures

The product itself does not burn.

Extinguishing media: Carbon Dioxide, powder or water spray. Fight larger fires with alcohol resistant foam. Do not use full jet water for safety reasons

Special Exposure Hazard: Resultant gases - lead oxides

Protective equipment: Self-contained respiratory device

Do not allow contaminated fire fighting water to enter sewage system.

6 Accidental Release Measures

Personal Protective Equipment: Respiratory protective equipment.
Ensure adequate ventilation.

Leaks and Spills: Avoid formation of dust.
Clean up using appropriate personal protective equipment.
Damp down and scoop into receptacle.

Transfer material to container for disposal. Label as lead compounds. Dispose of contaminated material as waste according to section 13

Do not allow entry to sewage system or watercourse.

7) Handling and Storage

Handling: Avoid breathing dust and use with adequate ventilation. Keep exposure below permissible limit. Do not eat, drink or smoke in areas where the material is used. Wash thoroughly after handling. Use gloves and overalls to avoid skin contact.

Storage: A moderately dry, well ventilated area is considered suitable for handling and storage.

8) Exposure/Personal Protection

Ingredients with limit values that require monitoring in the workplace:

Flake White

Lead Carbonate trilead bis (carbonate) dihydroxide PB in air STD 0.15 mg/m³

Lead Red

Lead (II, IV) Oxide PB in air STD 0.15 mg/m³

Naples Yellow Genuine Dark and Light

Lead-antimony compound TWA (8 h): 0.5 mg/m³ (Sb)

Engineering Controls: Adequate ventilation should be provided so that occupational exposure limits are not exceeded. Local exhaust ventilation normally recommended.

Respiratory protection: Use respiratory protection device recommended for use in lead works. Filter P2.

Skin protection: Wear suitable protective gloves and clothing.

Eye protection: Use safety glasses

9) Physical and chemical Properties

Appearance: Flake White - White Powder
 Red Lead – Red Powder
 Naples Yellow – Yellow Powder

Odour: None

Boiling point: N/A

Melting point: >400°C

Flash point: N/A.

Ph: 7-8

Solubility: Practically insoluble in water.

Flammability: Product is not flammable but may favour ignition of matrix at elevated temperatures.

10) Stability and Reactivity

Stability: Stable under normal conditions of storage and use.

Hazardous reactions: Strong oxidizing agents e.g. hydrogen Peroxide, Chromic Acid.
 Strong acids & bases

Dangerous decomposition products: Lead oxide.

11) Toxicological Information

Acute Toxicity

Oral Toxicity: Flake White - LD50 (rat) > 2g/Kg
Red Lead - LD50 (rat) > 10g/Kg
Naples Yellow: Not available

Health Effects

Inhalation: could cause irritation
Eye contact: could cause irritation

Ingestion: toxic
Skin contact: could cause irritation

Long term exposure: Lead has cumulative properties that mean it can cause harm following long term exposure. Symptoms of chronic lead poisoning are headaches, weariness, constipation and colic.

Additional toxicological information:

Lead compounds have well known effects on blood synthesis, central nervous system, developing brain. Hence the classification as "Toxic for reproduction".

12) Ecological Information

Hazardous for water.

Can be separated in waste water treatment plants by filtration or sedimentation.

Do not allow product to reach ground water, water course or sewage system.

13) Disposal Information

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Disposal as special waste. Hand over to hazardous waste disposers.

Dispose of uncleaned packaging in the same way as the product.

Waste disposal key H5, H10, H14 (UK)

14) Transport Information



Land ADR/RID: Class: 6.1 Toxic substances, UN 2291, Packaging Group III

Maritime Transport: Class: 6.1 Toxic substances, UN 2291, Packaging Group III

Air Cargo ICAO-TI and IATA-DGR Class: 6.1 Toxic substances, UN 2291, Packaging Group III

15) Regulatory Information

Classification



T Toxic



N Dangerous to the environment

Risk phrases

- R61 May cause harm to the unborn child
R62 Possible risk of impaired fertility
R20/22 Harmful by inhalation and if swallowed
R33 Danger of cumulative effects
R50/53 Very toxic to aquatic organisms, may cause long - term effects in the aquatic environment

Safety phrases

- S53 Avoid exposure – obtain special instructions before use
S45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible)
S13 Keep away from food, drink and animal feeding stuffs
S20/21 When using, do not eat, drink or smoke
S60 This material and its container must be disposed of as hazardous waste

16) Other information

This product should be stored, handled and used in accordance with good hygiene practices and in conformity with any legal regulations.

To best of our knowledge the information contain herein is accurate. However, neither the above supplier assumes any liability whatsoever for the accuracy or completeness of the information herein

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist