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# Safety Data Sheet
## Paliocrom® Brilliant Gold L 2050



## 1. Identification

### Product identifier used on the label

# Paliocrom® Brilliant Gold L 2050

### Recommended use of the chemical and restriction on use

Recommended use*: Colorants for the Paints, lacquers and varnishes industry
Recommended use*: pigment
Suitable for use in industrial sector: Paints, lacquers and varnishes industry; chemical industry

* The “Recommended use” identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

### Details of the supplier of the safety data sheet

Company:
BASF Colors & Effects USA LLC
100 Park Avenue
Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

### Emergency telephone number

CHEMTREC: 1-800-424-9300
BASF HOTLINE: 1-800-832-HELP (4357)

### Other means of identification
Chemical family: multilayer pigment

## 2. Hazards Identification

**According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200**

### Classification of the product

| | | |
|---|---|---|
| Flam. Sol. | 1 | Flammable solids |
| STOT SE | 3 (Vapours may cause drowsiness and dizziness.) | Specific target organ toxicity — single exposure |

### Label elements

Pictogram:

Signal Word:
Danger

Hazard Statement:

| | |
|---|---|
| H228 | Flammable solid. |
| H336 | May cause drowsiness or dizziness. |

Precautionary Statements (Prevention):

| | |
|---|---|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P280 | Wear protective gloves and eye protection or face protection. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P241 | Use explosion-proof electrical, ventilating and lighting equipment. |
| P260 | Do not breathe dust/gas/mist/vapours. |
| P240 | Ground and bond container and receiving equipment. |

Precautionary Statements (Response):

| | |
|---|---|
| P370 + P378 | In case of fire: Use water spray, dry sand, cement or dry Powder for Class D for extinction. |
| P312 | Call a POISON CENTER or doctor/physician if you feel unwell. |
| P304 + P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |

Precautionary Statements (Storage):

| | |
|---|---|
| P403 + P233 | Store in a well-ventilated place. Keep container tightly closed. |
| P405 | Store locked up. |

Precautionary Statements (Disposal):

| | |
|---|---|
| P501 | Dispose of contents and container to hazardous or special waste collection point. |

### Hazards not otherwise classified

The product is under certain conditions capable of dust explosion.

## 3. Composition / Information on Ingredients

**According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200**

| CAS Number | Weight % | Chemical name |
|---|---|---|
| 7429-90-5 | 50.0 - 65.0% | Aluminum |
| 64742-48-9 | 30.0 - 40.0% | Naphtha (petroleum), hydrotreated heavy |
| 1309-37-1 | >= 7.0 - < 15.0% | Iron oxide |

## 4. First-Aid Measures

### Description of first aid measures

**General advice:**
Remove contaminated clothing.

**If inhaled:**
If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention.

**If on skin:**
Wash thoroughly with soap and water. If irritation develops, seek medical attention.

**If in eyes:**
Wash affected eyes for at least 15 minutes under running water with eyelids held open. If irritation develops, seek medical attention.

**If swallowed:**
Rinse mouth and then drink 200-300 ml of water. Do not induce vomiting. Seek medical attention.

### Most important symptoms and effects, both acute and delayed

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11., (Further) symptoms and / or effects are not known so far

### Indication of any immediate medical attention and special treatment needed

Note to physician

| | |
|---|---|
| Treatment: | Treat according to symptoms (decontamination, vital functions), no known specific antidote. |

## 5. Fire-Fighting Measures

### Extinguishing media

Suitable extinguishing media:
water spray, foam, Dry sand, Dry Powder for Class D

Unsuitable extinguishing media for safety reasons:
ABC powder, carbon dioxide

Additional information:
Cover burning material with water / flood and store outdoors.

Can release flammable hydrogen gas.

Contact manufacturer under: see emergency number (section 1 of the SDS)

If a metal fire occurs, use dry sand, dry powder for Class D or cement.

Use extinguishing measures to suit surroundings.

### Special hazards arising from the substance or mixture

Hazards during fire-fighting:
harmful vapours
After combustion of the solvent fraction, the liquid fire changes into a metal fire.

### Advice for fire-fighters
Protective equipment for fire-fighting:
Wear a self-contained breathing apparatus.

**Further information:**
Fire can be extinguished by covering the packaging (oxygen depletion). Strictly avoid stirring up the burning powder. Separate containers uninvolved in fire. Separate containers involved in fire and keep under observation for at least 24 hours. Keep adjacent fire-exposed buildings, equipment, and materials cool with water spray. The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures
Can release flammable vapours. Wind direction should be noted. Avoid all sources of ignition: heat, sparks, open flame. Use antistatic tools.

### Environmental precautions
Do not discharge into drains/surface waters/groundwater.

### Methods and material for containment and cleaning up
For small amounts: Do not vacuum up powder. Pick up in dry form. Place into suitable container for disposal.
For large amounts: Do not vacuum up powder. Pick up in dry form. Place into suitable container for disposal.
Do not make container pressure tight.

## 7. Handling and Storage

### Precautions for safe handling
Ensure thorough ventilation of stores and work areas. Close container tightly after use.

Avoid contact with the skin, eyes and clothing.

Protection against fire and explosion:
Take precautionary measures against static discharges. Sources of ignition should be kept well clear. Avoid whirling up the material/product because of the danger of dust explosion.

### Conditions for safe storage, including any incompatibilities
Store well away from other substances.

Further information on storage conditions: Keep container tightly closed and in a cool place.

## 8. Exposure Controls/Personal Protection

**Components with occupational exposure limits**

| | | |
|---|---|---|
| Iron oxide | OSHA PEL | PEL 10 mg/m3 fumes/smoke ; TWA value 10 mg/m3 fumes/smoke ; |
| | ACGIH TLV | TWA value 5 mg/m3 Respirable fraction ; |
| Aluminum | | |
| | ACGIH TLV | TWA value 1 mg/m3 Respirable fraction ; |

**Advice on system design:**
Provide local exhaust ventilation to control dusts/vapours. Exhaust fans should be explosion proof.

**Personal protective equipment**

**Respiratory protection:**
Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator.

**Hand protection:**
Chemical resistant protective gloves

**Eye protection:**
Safety glasses with side-shields. Wear face shield if splashing hazard exists.

**Body protection:**
Protective clothing should be flame resistant.

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit., Protective coverall and/or impermeable apron and boots as necessary.

**General safety and hygiene measures:**
Wear protective clothing as necessary to minimize contact. Handle in accordance with good industrial hygiene and safety practice. Wash soiled clothing immediately. Wash thoroughly after handling.

## 9. Physical and Chemical Properties

| | | |
|---|---|---|
| Form: | pasty | |
| Odour: | mineral oil-like | |
| Odour threshold: | Not determined due to potential health hazard by inhalation. | |
| Colour: | The colour is derived from the trade name. | |
| pH value: | 3 - 5<br>( 10 %(m)) | |
| Melting point: | not determined | |
| Boiling point: | not determined | |
| Flash point: | 38 - 40 °C | |
| Flammability: | Highly flammable. | |
| Lower explosion limit: | 0.6 %(V)<br>Information applies to the solvent. | |
| Upper explosion limit: | 6 %(V)<br>Information applies to the solvent. | |
| Autoignition: | > 240 °C | (DIN 51794) |
| Vapour pressure: | approx. 300 Pa<br>( 20 °C)<br>Information applies to the solvent. | |
| Bulk density: | approx. 900 kg/m3 | |
| Vapour density: | not determined | |
| Partitioning coefficient n-octanol/water (log Pow): | Study does not need to be conducted. | |
| Thermal decomposition: | not determined | |
| Viscosity, dynamic: | Study does not need to be conducted. | |
| Particle size: | No data available. | |
| Solubility in water: | insoluble | |
| Solubility (quantitative): | The product has not been tested. | |

| | |
|---|---|
| Solubility (qualitative): | soluble<br>solvent(s): organic solvents, |
| Evaporation rate: | not determined |

## 10. Stability and Reactivity

### Reactivity
No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals:
No corrosive effect on metal.

### Chemical stability
The product is stable if stored and handled as prescribed/indicated.

### Possibility of hazardous reactions
Reacts with strong oxidizing agents. Reacts with acids. Reacts with alkalies. Ignitable air mixtures can form when the product is heated above the flash point and/or when sprayed or atomized.

### Conditions to avoid
Avoid all sources of ignition: heat, sparks, open flame. Avoid direct contact with water. Avoid heat. Avoid dust formation.

### Incompatible materials
acids, alkalies, strong oxidizing agents, water

### Hazardous decomposition products

Decomposition products:
Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:
not determined

## 11. Toxicological information

### Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

### Acute Toxicity/Effects

Acute toxicity
Assessment of acute toxicity: Virtually nontoxic after a single ingestion. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Oral
Type of value: LD50
Species: rat
Value: > 5,000 mg/kg
The product has not been tested. The statement has been derived from the properties of the individual components.

Inhalation
Type of value: LC50
not determined

Dermal
Type of value: LD50
not determined

Assessment other acute effects
Assessment of STOT single:
Possible narcotic effects (drowsiness or dizziness).

The product has not been tested. The statement has been derived from the properties of the individual components.

Irritation / corrosion
Assessment of irritating effects: Not irritating to eyes and skin.

Skin
Species: rabbit
Result: non-irritant
Method: OECD Guideline 404
The product has not been tested. The statement has been derived from the properties of the individual components.

Eye
Species: rabbit
Result: non-irritant
Method: OECD Guideline 405
The product has not been tested. The statement has been derived from the properties of the individual components.

Sensitization
Assessment of sensitization: The chemical structure does not suggest a sensitizing effect. The product has not been tested. The statement has been derived from the properties of the individual components.

Guinea pig maximization test
Species: guinea pig
Result: Non-sensitizing.
Method: OECD Guideline 406
The product has not been tested. The statement has been derived from the properties of the individual components.

Aspiration Hazard
No aspiration hazard expected.

### Chronic Toxicity/Effects

Repeated dose toxicity
Assessment of repeated dose toxicity: Prolonged or repeated exposure to excessive levels of dust may cause pneumoconiosis. Symptoms may include a dry cough, shortness of breath on exertion, decreased chest expansion and weakness. The substance may cause increase in lung mass and lung tissue changes after repeated inhalation. The effects were only observed at doses/concentrations not relevant for classification and/or practical use conditions. The product has not been tested. The statement has been derived from the properties of the individual components.

Genetic toxicity
Assessment of mutagenicity: The chemical structure does not suggest a specific alert for such an effect. The product has not been tested. The statement has been derived from the properties of the individual components.

Carcinogenicity
Assessment of carcinogenicity: The whole of the information assessable provides no indication of a carcinogenic effect. The product has not been tested. The statement has been derived from the properties of the individual components.

Reproductive toxicity
Assessment of reproduction toxicity: The chemical structure does not suggest a specific alert for such an effect. The product has not been tested. The statement has been derived from the properties of the individual components.

Teratogenicity
Assessment of teratogenicity: The chemical structure does not suggest a specific alert for such an effect. The product has not been tested. The statement has been derived from the properties of the individual components.

### Symptoms of Exposure

Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11., (Further) symptoms and / or effects are not known so far

## 12. Ecological Information

### Toxicity

Aquatic toxicity
Assessment of aquatic toxicity:
There is a high probability that the product is not acutely harmful to aquatic organisms.

Toxicity to fish
LC50 (96 h) > 100 mg/l, Fish
The product has not been tested. The statement has been derived from the properties of the individual components.

Aquatic invertebrates
LC50 (48 h) > 100 mg/l, daphnia
The product has not been tested. The statement has been derived from the properties of the individual components.

Aquatic plants
EC50 (72 h) > 100 mg/l, algae
The product has not been tested. The statement has been derived from the properties of the individual components.

Chronic toxicity to fish
No data available.

Chronic toxicity to aquatic invertebrates
No data available.

### Microorganisms/Effect on activated sludge

Toxicity to microorganisms
bacteria/EC50 (0.5 h):
not determined

### Persistence and degradability

Assessment biodegradation and elimination (H2O)
The product is not very soluble in water and can thus be removed from water mechanically in suitable effluent treatment plants. The solvent is biodegradable.

### Additional information

Other ecotoxicological advice:
Do not allow to enter soil, waterways or waste water channels.

## 13. Disposal considerations

**Waste disposal of substance:**
Must be disposed of or incinerated in accordance with local regulations.

**Container disposal:**
Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

## 14. Transport Information

**Land transport**
USDOT

| | |
|---|---|
| Hazard class: | 4.1 |
| Packing group: | II |
| ID number: | UN 3175 |
| Hazard label: | 4.1 |
| Proper shipping name: | SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (contains NAPHTHA/PETROLEUM, ALUMINIUM POWDER) |

**Sea transport**
IMDG

| | |
|---|---|
| Hazard class: | 4.1 |
| Packing group: | II |
| ID number: | UN 3175 |
| Hazard label: | 4.1 |
| Marine pollutant: | NO |
| Proper shipping name: | SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (contains NAPHTHA/PETROLEUM, ALUMINIUM POWDER) |

**Air transport**
IATA/ICAO

| | |
|---|---|
| Hazard class: | 4.1 |
| Packing group: | II |
| ID number: | UN 3175 |
| Hazard label: | 4.1 |
| Proper shipping name: | SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (contains NAPHTHA/PETROLEUM, ALUMINIUM POWDER) |

## 15. Regulatory Information

**Federal Regulations**

**Registration status:**
Chemical TSCA, US released / listed

**EPCRA 311/312 (Hazard categories):** Refer to SDS section 2 for GHS hazard classes applicable for this product.

**EPCRA 313:**

| CAS Number | Chemical name |
|---|---|
| 7429-90-5 | Aluminum |

**NFPA Hazard codes:**
Health: 1 Fire: 2 Reactivity: 0 Special:

**HMIS III rating**
Health: 1 Flammability: 2 Physical hazard: 0

## 16. Other Information

**SDS Prepared by:**
BASF NA Product Regulations
SDS Prepared on: 2019/12/04

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

Paliocrom® Brilliant Gold L 2050 END OF DATA SHEET