

Safety Data Sheet

Paliocrom® Gold L 2000

Revision date : 2015/06/12
Version: 5.0

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(30047191/SDS_GEN_US/EN)

1. Identification

Product identifier used on the label

Paliocrom® Gold L 2000

Recommended use of the chemical and restriction on use

Recommended use*: pigment

Suitable for use in industrial sector: 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:

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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/face protection.
P271 Use only outdoors or in a well-ventilated area.
P241 Use explosion-proof electrical/ventilating/lighting equipment if dust clouds can occur.
P260 Do not breathe dust/gas/mist/vapours.
P240 Ground/bond container and receiving equipment.

Precautionary Statements (Response):

P370 + P378 In case of fire: Use 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/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

<u>CAS Number</u>	<u>Weight %</u>	<u>Chemical name</u>
7429-90-5	35.0 - 55.0%	Aluminum
64742-48-9	25.0 - 45.0%	Naphtha (petroleum), hydrotreated heavy
1309-37-1	10.0 - 20.0%	Iron oxide

4. First-Aid Measures

Description of first aid measures

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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 plenty of water. Do not induce vomiting. Seek medical attention if necessary.

Most important symptoms and effects, both acute and delayed

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Further important symptoms and effects are so far not known.

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:

Dry sand, cement, Dry Powder for Class D

Unsuitable extinguishing media for safety reasons:

water spray, foam, ABC powder, carbon dioxide

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. If a metal fire occurs, leave the container to burn out. Do not leave fire fighting water in containers involved in fire. Keep adjacent fire-exposed buildings, equipment, and materials cool with water spray. The degree of risk is governed by the burning

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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/m ³ fumes/smoke ; TWA value 10 mg/m ³ fumes/smoke ;
	ACGIH TLV	TWA value 5 mg/m ³ Respirable fraction ;
Naphtha (petroleum), hydrotreated heavy	OSHA PEL	PEL 100 ppm 400 mg/m ³ ; TWA value 100 ppm 400 mg/m ³ ;
	ACGIH TLV	TWA value 1 mg/m ³ Respirable fraction ;
Aluminum	OSHA PEL	PEL 15 mg/m ³ Total dust (aluminum (Al)); PEL 5 mg/m ³ Respirable dust (aluminum (Al));
	ACGIH TLV	TWA value 1 mg/m ³ Respirable fraction ;

Advice on system design:

Provide local exhaust ventilation to control dusts/vapours.

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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:	product specific	
Odour threshold:	Not determined due to potential health hazard by inhalation.	
Colour:	gold colour	
pH value:	3 - 5 (100 g/l, 20 °C)	
Melting point:	not determined	
Boiling point:	not determined	
Flash point:	approx. 38.5 °C	(ASTM D3278)
Flammability:	Highly flammable.	(Directive 92/69/EEC, A.10)
Lower explosion limit:	0.6 %(V)	
	Information applies to the solvent.	
Upper explosion limit:	6 %(V)	
	Information applies to the solvent.	
Vapour pressure:	approx. 300 Pa (20 °C)	
	Information applies to the solvent.	
Bulk density:	approx. 900 kg/m ³	
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	
Miscibility with water:	immiscible	
Solubility (quantitative):	The product has not been tested.	
Solubility (qualitative):	miscible solvent(s): organic solvents,	
Evaporation rate:	not determined	

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10. Stability and Reactivity

Reactivity

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

Corrosion to metals:

Corrosive effects to metal are not anticipated.

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

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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.

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.

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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

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Further important symptoms and effects are so far not known.

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.

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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.

RCRA: D001
Ignitability

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 MINERAL SPIRIT/WHITE SPIRIT)

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 MINERAL SPIRIT/WHITE SPIRIT)

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 MINERAL SPIRIT/WHITE SPIRIT)

15. Regulatory Information

Federal Regulations

Registration status:

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Chemical TSCA, US released / listed

EPCRA 311/312 (Hazard categories): Acute; Fire

EPCRA 313:

<u>CAS Number</u>	<u>Chemical name</u>
7429-90-5	Aluminum

State regulations

<u>State RTK</u>	<u>CAS Number</u>	<u>Chemical name</u>
NJ	1309-37-1	Iron oxide
	64742-48-9	Naphtha (petroleum), hydrotreated heavy
	7429-90-5	Aluminum
PA	1309-37-1	Iron oxide
	64742-48-9	Naphtha (petroleum), hydrotreated heavy
	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: 2015/06/12

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.

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