

# Safety Data Sheet

## Orasol® Brown 326

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Version: 3.0

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(30474455/SDS\_GEN\_US/EN)

### 1. Identification

#### Product identifier used on the label

## Orasol® Brown 326

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

Recommended use\*: colouring component

\* 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 &amp; 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: 1:2 Chrome complex

### 2. Hazards Identification

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

#### Classification of the product

Carc.	2	Carcinogenicity
Aquatic Acute	3	Hazardous to the aquatic environment - acute
Aquatic Chronic	3	Hazardous to the aquatic environment - chronic
Combustible Dust	Combustible Dust (1)	Combustible Dust

#### Label elements

Pictogram:

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Signal Word:  
Warning

Hazard Statement:

H351 May form combustible dust concentration in air.  
Suspected of causing cancer.  
H402 Harmful to aquatic life.  
H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements (Prevention):

P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P201 Obtain special instructions before use.  
P273 Avoid release to the environment.  
P202 Do not handle until all safety precautions have been read and understood.

Precautionary Statements (Response):

P308 + P311 IF exposed or concerned: Call a POISON CENTER or doctor/physician.

Precautionary Statements (Storage):

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. Once ignited, this product has the ability to continue to burn/decompose in the absence of air or oxygen.

## 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>
57206-81-2	>= 50.0 - < 75.0%	Chromate(1-), bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]-, sodium
67352-37-8	>= 25.0 - < 50.0%	Chromate(1-), bis[2,4-dihydro-4-[[2-(hydroxy-.kappa.O)-5-nitrophenyl]azo-.kappa.N1]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)-.kappa.O3]-, sodium
91-20-3	>= 0.3 - < 1.0%	naphthalene

## 4. First-Aid Measures

### Description of first aid measures

#### General advice:

Remove contaminated clothing.

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### If inhaled:

If difficulties occur after dust 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.

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## 5. Fire-Fighting Measures

### Extinguishing media

Suitable extinguishing media:  
Water in copious quantities

Unsuitable extinguishing media for safety reasons:  
foam, dry powder, carbon dioxide

#### Additional information:

Soak with large amounts of water whenever possible together with wetting agents.

### Special hazards arising from the substance or mixture

Hazards during fire-fighting:

carbon oxides, nitrous gases, chromium oxides, toxic gases/vapours

Once ignited, this product has the ability to continue to burn/decompose in the absence of air or oxygen.

### Advice for fire-fighters

Protective equipment for fire-fighting:

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

### Impact Sensitivity:

Impact Weight:	10 kg
Height of Fall:	0.4 m
Method:	Explosive Properties
Number of positive reactions:	0

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Assessment: Product is not explosive when subjected to mechanical impact.

### 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Use personal protective clothing.

#### Environmental precautions

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

#### Methods and material for containment and cleaning up

For small amounts: Pick up with suitable appliance and dispose of.  
For large amounts: Pick up with suitable appliance and dispose of.  
Avoid raising dust. Do not empty into drains.

### 7. Handling and Storage

#### Precautions for safe handling

Protection against fire and explosion:

Avoid dust formation. Avoid whirling up the material/product because of the danger of dust explosion.  
Avoid all sources of ignition: heat, sparks, open flame. Take precautionary measures against static discharges.

Dust explosion class: Dust explosion class 1 (Kst-value >0 up to 200 bar m s-1).

#### Conditions for safe storage, including any incompatibilities

Segregate from chemicals which may react with water, because in case of fire water will be used.

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place. Keep only in the original container. The undiluted dry powder must under no circumstances be exposed to strong mechanical forces.

Keep container tightly closed and dry; store in a cool place.

### 8. Exposure Controls/Personal Protection

#### Components with occupational exposure limits

naphthalene	OSHA PEL	PEL 10 ppm 50 mg/m <sup>3</sup> ; TWA value 10 ppm 50 mg/m <sup>3</sup> ; STEL value 15 ppm 75 mg/m <sup>3</sup> ;
	ACGIH TLV	Skin Designation ; The substance can be absorbed through the skin. TWA value 10 ppm ;
Chromate(1-), bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]-, sodium	OSHA PEL	PEL 0.5 mg/m <sup>3</sup> (Chromium (Cr));
Chromate(1-), bis[2,4-	OSHA PEL	PEL 0.5 mg/m <sup>3</sup> (Chromium (Cr));

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dihydro-4-[[2-(hydroxy-  
.kappa.O)-5-  
nitrophenyl]azo-.kappa.N1]-  
5-methyl-2-phenyl-3H-  
pyrazol-3-onato(2-)-  
.kappa.O3]-, sodium

### **Personal protective equipment**

#### **Respiratory protection:**

Wear a NIOSH-certified (or equivalent) particulate respirator.

Observe OSHA regulations for respirator use (29 CFR 1910.134).

#### **Hand protection:**

Chemical resistant protective gloves

#### **Eye protection:**

Safety glasses with side-shields. Wear face shield if splashing hazard exists.

#### **General safety and hygiene measures:**

Wear protective clothing as necessary to minimize contact. Handle in accordance with good industrial hygiene and safety practice.

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## 9. Physical and Chemical Properties

Form:	granules	
Odour:	odourless	
Odour threshold:	not determined	
Colour:	brown	
pH value:	6.8 - 8.2 (as suspension)	
Melting point:	The substance / product decomposes therefore not determined.	
decomposition point:	> 215 °C	(DSC (DIN 51007))
Boiling point:	not applicable	
Flash point:	not applicable	
Flammability:	not highly flammable	
Lower explosion limit:	For solids not relevant for classification and labelling.	
Upper explosion limit:	For solids not relevant for classification and labelling.	
Autoignition:	380 °C	(BAM)
Vapour pressure:	not applicable	
Density:	approx. 1.54 g/cm <sup>3</sup> ( 20 °C)	
Relative density:	approx. 1.54 ( 20 °C)	
Bulk density:	approx. 525 kg/m <sup>3</sup>	
Vapour density:	not applicable	
Partitioning coefficient n- octanol/water (log Pow):	Study does not need to be conducted.	
Self-ignition temperature:	not self-igniting	

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Thermal decomposition:	220 °C No self ignition was observed up to the specified temperature. 205 °C, 1,060 J/g (DSC (DIN 51007)) Not a substance liable to self-decomposition according to UN transport regulations, class 4.1.	(VDI 2263, sheet 1, 1.4.1)
Viscosity, dynamic:	Study does not need to be conducted.	
Particle size:	No data available.	
% volatiles:	none	
Solubility in water:	insoluble	
Evaporation rate:	The product is a non-volatile solid.	

## 10. Stability and Reactivity

### Reactivity

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

Oxidizing properties:  
not fire-propagating (UN Test O.1 (oxidizing solids))

Dust explosion class:  
Dust explosion class 1 (Kst-value >0 up to 200 bar m s<sup>-1</sup>) (St 1)

### Chemical stability

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

### Possibility of hazardous reactions

Dust explosion hazard. Once ignited, this product has the ability to continue to burn/decompose in the absence of air or oxygen.

### Conditions to avoid

Avoid dust formation. Avoid deposition of dust. Avoid sources of ignition. Avoid electro-static discharge.

### Incompatible materials

strong oxidizing agents, strong bases, strong acids

### Hazardous decomposition products

Decomposition products:

Hazardous decomposition products: carbon oxides, nitrogen oxides, chromium oxides, toxic gases/vapours

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

Thermal decomposition:

205 °C, 2.5 K/min (DSC (DIN 51007))

Not a substance liable to self-decomposition according to UN transport regulations, class 4.1.

## 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.

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### Primary routes of entry

Ingestion.  
Skin  
Inhalation.  
Eyes

### **Acute Toxicity/Effects**

#### Acute toxicity

Assessment of acute toxicity: Virtually nontoxic after a single skin contact. Virtually nontoxic after a single ingestion.

#### Oral

Type of value: LD50  
Species: rat  
Value: > 5,000 mg/kg

#### Inhalation

No data available.

#### Dermal

No data available concerning acute toxicity.

#### Irritation / corrosion

Assessment of irritating effects: Not irritating to the skin. Not irritating to the eyes.

#### 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 substances/products of a similar structure or composition.

#### Aspiration Hazard

not applicable

### **Chronic Toxicity/Effects**

#### Repeated dose toxicity

Assessment of repeated dose toxicity: No data available.

#### Genetic toxicity

Assessment of mutagenicity: The substance was mutagenic in a bacterial test system.

#### Carcinogenicity

Assessment of carcinogenicity: The following component(s) in this product at concentrations greater than 0.1% are listed by IARC; NTP, OSHA, or ACGIH as a carcinogen.

#### *Information on: naphthalene*

*Assessment of carcinogenicity: In long-term studies in rats and mice in which the substance was given by inhalation, a carcinogenic effect was observed. EU-classification The substance was classified as a group 3 carcinogen by the German MAK-Commission (substances for which a suspicion of a carcinogenic potential exists). IARC (International Agency for Research on Cancer) has classified this substance as group 2B (The agent is possibly carcinogenic to humans). IARC (International Agency for Research on Cancer) has classified this substance as group 2B (The agent is possibly carcinogenic to humans).*

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### Reproductive toxicity

Assessment of reproduction toxicity: No data available.

### Teratogenicity

Assessment of teratogenicity: No data available.

### Other Information

Determined according to old protocols, unless otherwise stated. Tested as a preparation.

## 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.

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## 12. Ecological Information

### Toxicity

#### Aquatic toxicity

Assessment of aquatic toxicity:

Acutely harmful for aquatic organisms. May cause long-term adverse effects in the aquatic environment. Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

#### Toxicity to fish

LC50 (96 h) 36 mg/l, *Oncorhynchus mykiss* (OECD Guideline 203)

#### Aquatic invertebrates

LC50 (48 h), daphnia  
not determined

#### Aquatic plants

EC50 (72 h), algae  
not determined

#### Chronic toxicity to fish

No data available.

#### Chronic toxicity to aquatic invertebrates

No data available.

## Microorganisms/Effect on activated sludge

### Toxicity to microorganisms

OECD Guideline 209 activated sludge/EC50 (3 h): > 100 mg/l

## Persistence and degradability

### Assessment biodegradation and elimination (H<sub>2</sub>O)

Colourants are by their nature very stable and are therefore not readily biodegradable under conditions prevailing in surface water or in effluent treatment plants. The colourant is insoluble in water and can thus be separated from water mechanically in suitable effluent treatment plant

### Elimination information

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(28 d) (OECD 301B; ISO 9439; 92/69/EEC, C.4-C) Non-biodegradable.

### Additional information

The product contains: Chromium (III) ion  
The heavy metals mentioned are present in complex bound form as substantial constituent of the colourant.

Other ecotoxicological advice:  
Do not discharge product into the environment without control. Tested as a preparation.

## 13. Disposal considerations

### Waste disposal of substance:

Do not discharge into drains/surface waters/groundwater. Dispose of in accordance with national, state and local regulations.

### Container disposal:

Dispose of in accordance with national, state and local regulations. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

## 14. Transport Information

### Land transport

USDOT

Not classified as a dangerous good under transport regulations

### Sea transport

IMDG

Not classified as a dangerous good under transport regulations

### Air transport

IATA/ICAO

Not classified as a dangerous good under transport regulations

## 15. Regulatory Information

### VOC content:

none

### Federal Regulations

#### Registration status:

Chemical TSCA, US released / listed

#### EPCRA 311/312 (Hazard categories):

Chronic; Fire (Combustible Dust)

#### EPCRA 313:

CAS Number  
57206-81-2

#### Chemical name

Chromate(1-), bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]-, sodium

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67352-37-8 Chromate(1-), bis[2,4-dihydro-4-[[2-(hydroxy-.kappa.O)-5-nitrophenyl]azo-.kappa.N1]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)-.kappa.O3]-, sodium naphthalene

91-20-3

### CERCLA RQ

100 LBS  
10 LBS

### CAS Number

91-20-3  
57206-81-2;  
67352-37-8

### Chemical name

naphthalene  
Chromate(1-), bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]-, sodium; Chromate(1-), bis[2,4-dihydro-4-[[2-(hydroxy-.kappa.O)-5-nitrophenyl]azo-.kappa.N1]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)-.kappa.O3]-, sodium

### State regulations

#### State RTK

NJ

#### CAS Number

91-20-3  
57206-81-2  
67352-37-8

#### Chemical name

naphthalene  
Chromate(1-), bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]-, sodium  
Chromate(1-), bis[2,4-dihydro-4-[[2-(hydroxy-.kappa.O)-5-nitrophenyl]azo-.kappa.N1]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)-.kappa.O3]-, sodium  
naphthalene  
Chromate(1-), bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]-, sodium  
Chromate(1-), bis[2,4-dihydro-4-[[2-(hydroxy-.kappa.O)-5-nitrophenyl]azo-.kappa.N1]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)-.kappa.O3]-, sodium

PA

91-20-3  
57206-81-2  
67352-37-8

### **CA Prop. 65:**

WARNING: THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

### **NFPA Hazard codes:**

Health : 1      Fire: 1      Reactivity: 0      Special:

### **HMIS III rating**

Health: 1<sup>□</sup>      Flammability: 1      Physical hazard: 0

## 16. Other Information

### **SDS Prepared by:**

BASF NA Product Regulations  
SDS Prepared on: 2017/01/24

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.

Orasol® Brown 326 Due to the merger of CIBA and BASF Group all Material Safety Data Sheets have been reassessed on the basis of consolidated information. This may have resulted in changes

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of the Material Safety Data Sheets. In case you have questions concerning such changes please contact us at the address mentioned in Section I.

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