

**Material Safety Data Sheet  
Pigment Yellow 14**

**1. Identification**

**Product identifier used on the label**

**Pigment yellow 14**

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

Recommended use\*: coloring component

**Details of the supplier of the safety data sheet**

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**Emergency telephone number**

**Other means of identification**

**2. Hazards Identification**

**According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200 Classification of the product**

Combustible Dust            Combustible Dust (1) Combustible Dust

**Label elements**

Signal Word:

Warning

Hazard Statement:

May form combustible dust concentration in air.

## Hazards not otherwise classified

The product is under certain conditions capable of dust explosion.

According to Regulation 1994 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

### Emergency overview

CAUTION:

CAN FORM EXPLOSIVE DUST-AIR MIXTURES.

Use NIOSH approved respirator as needed to mitigate exposure. Take precautionary measures against static discharges.

## 3. Composition / Information on Ingredients

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

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
7727-43-7	>= 20.0 - <= 50.0 %	Barium sulfate

According to Regulation 1994 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200 CAS Number Content (W/W) Chemical name

Trade Secret	60.0 - 80.0 %	Pigment Yellow
7727-43-7	15.0 - 30.0 %	Barium sulfate
Trade Secret	1.0 - 5.0 %	Acetate

## 4. First-Aid Measures

### Description of first aid measures

#### General advice:

Remove contaminated clothing.

#### 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 in eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

#### 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.

## **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 powder, foam

Unsuitable extinguishing media for safety reasons: carbon dioxide

Additional information:

Avoid whirling up the material/product because of the danger of dust explosion.

#### **Special hazards arising from the substance or mixture**

Hazards during fire-fighting: harmful vapours

Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

#### **Advice for fire-fighters**

Protective equipment for fire-fighting:

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

#### **Further information:**

Dusty conditions may ignite explosively in the presence of an ignition source causing flash fire. **Impact Sensitivity:**

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: Contain with dust binding material and dispose of.

Avoid raising dust.

## 7. Handling and Storage

### Precautions for safe handling

Breathing must be protected when large quantities are decanted without local exhaust ventilation.

Closed containers should only be opened in well-ventilated areas.

Protection against fire and explosion:

Avoid dust formation. Take precautionary measures against static discharges.

### Conditions for safe storage, including any incompatibilities

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

## 8. Exposure Controls/Personal Protection

### Components with occupational exposure limits

Barium sulfate	OSHA PEL PEL 5 mg/m <sup>3</sup> Respirable fraction ; PEL 15 mg/m <sup>3</sup> Total dust ; TWA value 10 mg/m <sup>3</sup> Total dust ; TWA value 5 mg/m <sup>3</sup> Respirable fraction
	ACGIH TLV TWA value 10 mg/m <sup>3</sup> ; The value is for particulate matter containing no asbestos and <1% crystalline silica. TWA value 5 mg/m <sup>3</sup> Inhalable fraction ; The value is for particulate matter containing

### Personal protective equipment Respiratory protection:

Wear a NIOSH-certified (or equivalent) organic vapour/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. Eye wash fountains and safety showers must be easily accessible.

## 9. Physical and Chemical Properties

Form:	powder	
Odour:	odourless	
Odour threshold:		not determined
Colour:	yellow	
pH value:	approx. 7	(as suspension)

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Melting point:	> 300 °C	
Boiling point:		not applicable
Flash point:		Study does not need to be conducted.
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:	450 °C	(BAM)
Vapour pressure:		not applicable
Relative density:		No data available.
Bulk density:	approx. 240 kg/m <sup>3</sup>	
Vapour density:		The product is a non-volatile solid.
Partitioning coefficient octanol/water (log Pow):		Study does not need to be conducted.
Self-ignition temperature:		not self-igniting
Thermal decomposition:	> 200 °C	
Viscosity, dynamic:		Study does not need to be conducted.
Viscosity, kinematic:		not applicable
Particle size:		No data available.
% volatiles:		not determined
Solubility in water:		insoluble
Solubility (quantitative):		insoluble
Solubility (qualitative):	soluble	
	soluble in ( ) t(s): organic solvents,	
Evaporation rate:		The product is a non-volatile solid.
Other Information:	If necessary, information on other physical and chemical parameters is indicated in this section.	

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## 10. Stability and Reactivity

### Reactivity

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

Oxidizing properties: not fire-propagating

### Chemical stability

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

### Possibility of hazardous reactions

Dust explosion hazard.

### Conditions to avoid

#### Incompatible materials

No substances known that should be avoided.

### Hazardous decomposition products

Decomposition products:

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

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Thermal decomposition:

> 200 °C

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## 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.

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 by inhalation. Virtually nontoxic after a single ingestion.

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

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: Skin sensitizing effects were not observed in animal studies. The product has not been tested. The statement has been derived from the properties of the individual components.

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 not applicable

#### **Chronic Toxicity/Effects**

##### Genetic toxicity

Assessment of mutagenicity: No mutagenic effects reported.

##### Carcinogenicity

Assessment of carcinogenicity: None of the components in this product at concentrations greater than 0.1% are listed by IARC; NTP, OSHA or ACGIH as a carcinogen.

##### Reproductive toxicity

Assessment of reproduction toxicity: No reproductive toxic effects reported.

##### Teratogenicity

Assessment of teratogenicity: No teratogenic effects reported.

#### **Symptoms of Exposure**

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

## **12. Ecological Information**

### **Toxicity**

#### Aquatic toxicity

Assessment of aquatic toxicity:

At the present state of knowledge, no negative ecological effects are expected.

There is a high probability that the product is not acutely harmful to aquatic organisms.

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

Toxicity to fish LC50 > 100 mg/l, Fish

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

#### 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  
bacteria/EC50 (0.5 h):  
not determined

#### **Bioaccumulative potential**

Bioaccumulation potential  
Significant accumulation in organisms is not to be expected.

#### **Additional information**

Adsorbable organically-bound halogen (AOX): approx. 8.0 %  
Other ecotoxicological advice:  
Do not discharge product into the environment without control.

### **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.

#### **RCRA:**

This product is considered a hazardous waste under RCRA (40 CFR 261.21).

### **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:

not determined

### Federal Regulations Registration status:

Chemical TSCA, US released / listed

**EPCRA 311/312 (Hazard categories):** Fire (Combustible Dust);

### CERCLA RQ CAS Number Chemical name

1000 LBS~ 7727-43-7~ Barium sulfate

### State regulations

#### State RTK

MA, NJ, PA

#### CAS Number Chemical name

7727-43-7~ Barium sulfate

### 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^ Flammability: 1 Physical hazard:0

## 16. Other Information

END OF MSDS