

**Material Safety Data Sheet  
Pigment Yellow 138**

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**1. Identification**

**Product identifier used on the label**

**Pigment Yellow 138**

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

Recommended use\*: colorant(s)

Suitable for use in industrial sector: plastics processing industry

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

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**Emergency telephone number**

**Other means of identification**

Molecular formula: C<sub>26</sub>H<sub>6</sub>Cl<sub>8</sub>N<sub>2</sub>O<sub>4</sub>

Chemical family: quinophthalone pigment

Synonyms: Quinophthalone yellow

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**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.

### **3. Composition / Information on Ingredients**

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

This product does not contain any components classified as hazardous under the referenced regulation.

The product contains:

<u>CAS Number</u>	<u>Weight %</u>	<u>Chemical name</u>
30125-47-4	100.0 %	C.I. Pigment Yellow 138

### **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:**

Remove contaminated clothing. 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.

#### **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 firefighters

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:

Impact Weight: 10 kg

Height of Fall: 0.4 m

Method: Explosive properties

Number of positive 0

reactions:

## 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

### Advice on system design:

Provide local exhaust ventilation to control dust.

### 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:

Handle in accordance with good industrial hygiene and safety practice. Due to the colouring properties of the product closed work clothes should be used, to avoid stains during manipulation. Eye wash fountains and safety showers must be easily accessible. Wash soiled clothing immediately.

## 9. Physical and Chemical Properties

Form:	powder
Odour:	odourless
Odour threshold:	No applicable information available.
Appearance:	yellow
Concentration:	3.5 - 6.5 (50 g/l, 20 °C)
Melting point:	(as suspension)
Boiling point:	> 200 °C not applicable
Flash point:	not applicable, the product is a
Flammability:	solid not flammable not
Autoignition:	applicable
Vapour pressure:	The product has not been tested.

Density:	approx. 1.80 g/cm <sup>3</sup> (20 °C)	
Bulk density:	approx. 310 kg/m <sup>3</sup>	(calculated)
Partitioning coefficient n-octanol/water (log Pow):	10.185	
Self-ignition temperature:	> 400 °C (DTA) not applicable	(134001)
Thermal decomposition:	insoluble The product is a non-volatile solid.	
Viscosity, dynamic:	If necessary, information on other physical and chemical parameters is indicated in this section.	

## 10. Stability and Reactivity

### Reactivity

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

Corrosion to metals:

No corrosive effect on metal.

Oxidizing properties:

not fire-propagating

Formation of                      Remarks

flammable gases:

Forms no flammable gases in the presence of water.

### Chemical stability

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

### Possibility of hazardous reactions

In spite of the dedusting carried out for reasons of industrial health a dust explosion hazard can not be excluded.

### Conditions to avoid

No conditions to avoid anticipated.

### Incompatible materials

strong oxidizing agents, strong acids, strong bases

### Hazardous decomposition products

Decomposition products:

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

## 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. Virtually nontoxic after a single skin contact.

Oral

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

Dermal

Type of value: LD50 Species: rat Value: > 2,000 mg/kg

Assessment other acute effects Assessment of STOT single:

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

Irritation / corrosion

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

Skin

Species: rabbit Result: non-irritant Method: BASF-Test

Eye

Species: rabbit Result: non-irritant Method: BASF-Test

Sensitization

Assessment of sensitization: The chemical structure does not suggest a sensitizing effect.

No data available.

Aspiration Hazard No aspiration hazard expected.

### **Chronic Toxicity/Effects**

Repeated dose toxicity

Assessment of repeated dose toxicity: No data available.

Genetic toxicity

Assessment of mutagenicity: No mutagenic effects reported.

Carcinogenicity

Assessment of carcinogenicity: The whole of the information assessable provides no indication of a Carcinogenic effect.

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: Based on the ingredients, there is no suspicion of a toxic effect on reproduction.

Teratogenicity

Assessment of teratogenicity: No data available.

### **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. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Toxicity to fish

LC50 (96 h) > 100 mg/l, Brachydanio rerio (OECD 203; ISO 7346; 84/449/EEC, C.1, static)

Aquatic invertebrates

EC50 (48 h) > 100 mg/l, Daphnia magna

The product has low solubility in the test medium. An eluate has been tested.

Aquatic plants

EC50 (72 h) > 100 mg/l (biomass), Desmodosmus subspicatus (OECD Guideline 201, static)

Nominal concentration.

No observed effect concentration (72 h)  $\geq$  100 mg/l (biomass), Desmodosmus subspicatus (OECD Guideline 201, static)

Nominal concentration.

Lowest observed effect concentration (72 h) > 100 mg/l (biomass), Desmodosmus subspicatus (OECD Guideline 201, static)

Nominal concentration.

EC50 (72 h) > 100 mg/l (growth rate), Desmodosmus subspicatus (OECD Guideline 201, static) Nominal concentration.

No observed effect concentration (72 h)  $\geq$  100 mg/l (growth rate), Desmodosmus subspicatus (OECD Guideline 201, static)

Nominal concentration.

Lowest observed effect concentration (72 h) > 100 mg/l (growth rate), Desmodosmus subspicatus (OECD Guideline 201, static)

Nominal concentration.

No data available.

Chronic toxicity to aquatic invertebrates  
No data available.

#### **Microorganisms/Effect on activated sludge**

Toxicity to microorganisms  
Directive 88/302/EEC, part C, p. 118 activated sludge, domestic/EC50 (30 min): > 1,000 mg/l  
Nominal concentration.

#### **Persistence and degradability**

Assessment biodegradation and elimination (H<sub>2</sub>O)  
The product is not very soluble in water and can thus be removed from water mechanically in suitable effluent treatment plants.

Elimination information  
Well eliminable from water by adsorption on activated sludge.

#### **Bioaccumulative potential**

Assessment bioaccumulation potential  
Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.

Bioaccumulation potential  
Bioconcentration factor: < 3 (OECD Guideline 305 B)  
Does not accumulate in organisms.

#### **Mobility in soil**

Assessment transport between environmental compartments  
The substance will not evaporate into the atmosphere from the water surface.  
Adsorption to solid soil phase is not expected.

#### **Additional information**

Adsorbable organically-bound halogen (AOX): approx. 40,9 %  
The product contains according to the formulation, organically bound halogen. It can increase the AOX-value in the water purification plants overflow or if it reaches waters.

Other ecotoxicological advice:  
The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

### **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:** None

**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

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**15. Regulatory Information**

**Federal Regulations Registration status:**

Chemical TSCA, US released / listed

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

**CA Prop. 65:**

WARNING: THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

**NFPA Hazard codes:**

Health : 1 Fire: 1 Reactivity: 0 Special:

**HMIS III rating**

**Health: 1 Flammability: 1 Physical hazard: 0**

**16. Other Information**

