Material Safety Data Sheet
Pigment Orange 71

1. Identification

Product identifier used on the label

Pigment Orange 71

Recommended use of the chemical and restriction on use
Recommended use*: colouring component
Unsuitable for use: This material is not intended for use in products for which prolonged contact with mucous membranes, body fluids or abraded skin, or implantation within the human body, is specifically intended, unless the finished product has been tested in accordance with nationally and internationally applicable safety testing requirements. Because of the wide range of such potential uses, we are not able to recommend this material as safe and effective for such uses and assume no liability for such uses.

Details of the supplier of the safety data sheet
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Emergency telephone number

Other means of identification

2. Hazards Identification


| Skin Sens. | 1 | Skin sensitization |
| Combustible Dust | Combustible Dust (1) Combustible Dust |

Label elements
Hazard Statement:

May form combustible dust concentration in air.
H317 May cause an allergic skin reaction.

Precautionary Statements (Prevention):
P280 Wear protective gloves.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P272 Contaminated work clothing should not be allowed out of the workplace.

Precautionary Statements (Response):
P303 + P352 IF ON SKIN (or hair): Wash with plenty of soap and water.
P333 + P311 If skin irritation or rash occurs: Call a POISON CENTER or doctor/physician.
P362 + P364 Take off contaminated clothing and wash it before reuse.

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.


Emergency overview
CAUTION:
SENSITIZER.
The statements are based on the properties of the individual components.
Take precautionary measures against static discharges.
Use NIOSH approved respirator as needed to mitigate exposure.

3. Composition / Information on Ingredients


<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Weight %</th>
<th>Chemical name</th>
</tr>
</thead>
<tbody>
<tr>
<td>68554-12-1~</td>
<td>&gt;= 15.0 - &lt; 25.0%</td>
<td>Resin acids and Rosin acids, hydrogenated, calcium salts</td>
</tr>
<tr>
<td>68554-12-1~</td>
<td>&gt;= 75.0 - &lt; 100.0%</td>
<td>Substituted pyrrol</td>
</tr>
</tbody>
</table>
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:

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:

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 water / ground water.

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.

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.

Dust explosion class: Dust explosion class 2 (Kst-value 200 up to 300 bar m s\(^{-1}\)).

Conditions for safe storage, including any incompatibilities
Further information on storage conditions: Keep container tightly closed and dry; store in a cool place.
Avoid all sources of ignition: heat, sparks, open flame.

8. Exposure Controls/Personal Protection

Personal protective equipment Respiratory protection:
Wear a NIOSH-certified (or equivalent) particulate respirator.

Hand protection:
Chemical resistant protective gloves

Eye protection:
Safety glasses with side-shields. Wear face shield if splashing hazard exists.
Body protection:
Body protection must be chosen based on level of activity and exposure.

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.

9. Physical and Chemical Properties

Form: powder
Odour: odourless
Odour threshold: No applicable information available.
Colour: orange
pH value: approx. 8 (as suspension)

Melting point: > 360 °C
Boiling point: not applicable
Flash point: not applicable
Flammability: not 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, solid with a melting temperature over 300 °C
Density: approx. 1.4 g/cm3 (20 °C)

Relative density: No data available.
Partitioning coefficient n-octanol/water (log Pow): 0.2 - 0.6 (calculate)
Self-ignition temperature: not self-igniting
Thermal decomposition: No decomposition if correctly stored and handled.
Viscosity, kinematic: not applicable
% volatiles: none
Solubility in water: 0.012 mg/l (20 °C)

Evaporation rate: not determined
Other Information: If necessary, information on other physical and 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

Dust explosivity characteristics:
Kst:

Dust explosion class:
Dust explosion class 2 (Kst-value 200 up to 300 bar m s\(^{-1}\)) (St 2)

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

**Possibility of hazardous reactions**
Dust explosion hazard.

**Conditions to avoid**
Avoid dust formation. Avoid deposition of dust. Avoid all sources of ignition: heat, sparks, open flame. Avoid electro-static charge.

**Incompatible materials**
strong oxidizing agents, strong bases, strong acids

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

Thermal decomposition:
No decomposition if correctly stored and handled.

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
Skin
Eyes
Inhalation.
Ingestion.

**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: > 2,000 mg/kg

Dermal
Type of value: LD50 Species: rabbit Value: > 2,000 mg/kg
Irritation / corrosion
Assessment of irritating effects: Not irritating to the skin.

**Skin**
Species: rabbit Result: non-irritant

**Eye**
Species: rabbit
Eye contact causes irritation. The statements are based on the properties of the individual components.

Sensitization
Assessment of sensitization: May cause sensitization by skin contact.

**Chronic Toxicity/Effects Genetic toxicity**
Assessment of mutagenicity: Based on the ingredients, there is no suspicion of a mutagenic effect.

**Carcinogenicity**
Assessment of carcinogenicity: Based on the ingredients there is no suspicion of a carcinogenic effect in humans.

None of the components in this product at concentrations greater than 0.1% are listed by ARC; 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 teratogenic effects reported.

Other Information
The product has not been tested. The statements on toxicology have 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.

**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.

**Persistence and degradability**
Assessment biodegradation and elimination (H2O)
The product is virtually insoluble in water and can thus be separated from water mechanically in suitable effluent treatment plants.
Bioaccumulative potential

Bioaccumulation potential
No significant accumulation in organisms is expected as a result of the distribution coefficient of n-octanol/water (log Pow).

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

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:

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

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

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

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

16. Other Information