Material Safety Data Sheet
Pigment Red 254

1. Identification

Product identifier used on the label

Pigment Red 254

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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Other means of identification

Chemical family: organic pigment

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 elementsM

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.

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.

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.

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.

5. 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.

6. 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 can form an explosive mixture with air.

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.

7. Exposure Controls/Personal Protection

No occupational exposure limits known.

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:
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.

Physical and Chemical Properties

Form:	powder	
Odour:	characteristic	
Odour threshold:	No applicable information	
Colour: pH value:	available. red 5.5 - 8.5 (as suspension)	
Melting point:	> 300 °C	(Directive 84/449/EEC, A.1)
Boiling point:	(1,013.25 hPa) not applicable, solid with a melting temperature over	
Flash point:	300 °C not relevant not highly	
Flammability:	flammable	(Directive
Lower explosion limit:	For solids not relevant for classification and labelling.	
Upper explosion limit:	For solids not relevant for classification and labelling.	
Autoignition:	> 600 °C	(BAM)
Vapour pressure:	not applicable, solid with a melting temperature over	
Density:	300 °C	(Directive 84/449/EEC, A.3)
Relative density:		(Directive 84/449/EEC, A.3)

Partitioning coefficient octanol/water (log Pow):	< 3.0 The data refers to the undissociated form of the	(Calculation Hansch/Leo)
Self-ignition temperature:	Based on its structural properties product is not classified as self-igniting. > 400 °C	(Directive 92/69/EEC, A.16)
Thermal decomposition:	No decomposition if correctly stored and handled.	
Viscosity, dynamic:	not relevant	
Viscosity, kinematic:	not relevant	
Particle size:	D50 0.9 (im	(measured)
% volatiles:	not determined	
Solubility in water:	< 0.499 mg/l (20 °C)	
Solubility (quantitative):	< 10 MG/ 100 G FAT standard fat (37 °C)	
Molar mass:	357.20 g/mol	(calculated)
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.	

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 (Directive 84/449/EEC, A.17)

Formation of flammable gases:	Remarks:	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

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:

Thermal decomposition:

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. Virtually nontoxic by inhalation.

Oral
Type of value: LD50 Species: rat (male/female)
Value: > 5,000 mg/kg (Directive 84/449/EEC, B.1)

Inhalation
Type of value: LC0
Species: rat (male/female)
Value: > 2.25 mg/l (OECD Guideline 403)
Exposure time: 4 h

Dermal
Type of value: LD50 Species: rat (male/female)
Value: > 2,000 mg/kg (OECD Guideline 402)

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 skin. Not irritating to the eyes.

Skin
Species: rabbit
Result: non-irritant
Method: Directive 84/449/EEC, B.4

Eye
Species: rabbit
Result: non-irritant
Method: Directive 84/449/EEC, B.5

Sensitization

Assessment of sensitization: Skin sensitizing effects were not observed in animal studies.

Guinea pig maximization test Species: guinea pig Result: Non-sensitizing.

Method: OECD Guideline 406

Aspiration Hazard
not applicable

Chronic Toxicity/Effects

Repeated dose toxicity
Assessment of repeated dose toxicity: Repeated oral uptake of the substance did not cause substance-related effects.

Genetic toxicity
Assessment of mutagenicity: The substance was not mutagenic in bacteria. The substance was not
mutagenic in studies with mammals.
No mutagenic effects reported.

Carcinogenicity

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

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 indications of a developmental toxic / teratogenic effect were seen
in animal studies. Literature data.
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:
There is a high probability that the product is not acutely harmful to aquatic organisms. 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)
Nominal concentration. No toxic effects occur within the range of solubility. Limit concentration test only (LIMIT test).

Aquatic invertebrates
EC50 (24 h) > 100 mg/l, Daphnia magna (OECD Guideline 202, part 1, static)
Nominal concentration. No toxic effects occur within the range of solubility.

Aquatic plants

EC50 (72 h) > 100 mg/l (growth rate), Desmodesmus subspicatus (OECD Guideline 201, static)

Chronic toxicity to fish
No observed effect concentration (21 d), Oncorhynchus mykiss (OECD Guideline 204, Flow through.)
Nominal concentration. No toxic effects occur within the range of solubility. No effects at the highest test concentration. The product has low solubility in the test medium. A saturated solution has been tested.

Chronic toxicity to aquatic invertebrates
No observed effect concentration (21 d), Daphnia magna (OECD Guideline 202, part 2, semistatic) Nominal concentration. No toxic effects occur within the range of solubility. No effects at the highest test concentration. The product has low solubility in the test medium. A saturated solution has been tested.

Soil living organisms

Toxicity to soil dwelling organisms:
LC50 (14 d) > 1,000 mg/kg, Eisenia foetida (artificial soil)
Toxicity to terrestrial plants
EC0 (15 d) > 1,000 mg/kg, Lolium perenne (OECD Guideline 208)

Microorganisms/Effect on activated sludge

Toxicity to microorga 丨冂
isms static
activated sludge, domestic/EC20 (3 h): > 100 mg/l
Nominal concentration. No toxic effects occur within the range of solubility.

Persistence and degradability

Assessment biodegradation and elimination (H2O)
Not readily biodegradable (by OECD criteria). Poorly biodegradable. Poorly eliminated from water. Elimination information
4 % CO2 formation relative to the theoretical value (28 d) (OECD 301B; ISO 9439; 92/69/EEC, C.4- C) (aerobic, activated sludge, domestic, non-adapted)

Information on Stability in Water (Hydrolysis)
Study technically not feasible.

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 expected.

Additional information

Adsorbable organically-bound halogen (AOX): approx. 20 %

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,

14. Transport Information

Land transport
USDOT

Sea transport
IMDG

Air transport
IATA/ICAO

15. Regulatory Information

VOC content:
not determined **Federal Regulations Registration status:**
Chemical TSCA, US released / listed

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

SDS Prepared by: