

**Material Safety Data Sheet
Pigment Green 7**

1. Identification

Product identifier used on the label

Heliogen® Green K 8730 FP

Recommended use of the chemical and restriction on use

Recommended use*: Chemical; industrial chemicals; pigment; colourant(s)
Suitable for use in industrial sector: plastics processing industry

* The "Recommended use" identified for this product is provided solely to comply with a US Federal requirement and is not part of the seller's published specification. The terms of this

Details of the supplier of the safety data sheet

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Emergency telephone number

Other means of identification

Chemical family: copper-phthalocyanine pigment, halogenated

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

Avoid inhalation of dusts.

Use with local exhaust ventilation.

Wear protective clothing.

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.

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

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 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: No significant reaction of the human body to the product 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.

5. Fire-Fighting Measures Extinguishing media

Suitable extinguishing media: dry powder, foam

Unsuitable extinguishing media for safety reasons: carbon dioxide

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:

Wear a self-contained breathing apparatus.

Further information:

The degree of risk is governed by the burning substance and the fire conditions.

Contaminated extinguishing water must be disposed of in accordance with official regulations.

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.

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. In order to prevent contamination while handling, closed working clothes and working gloves should be used.

Eye wash fountains and safety showers must be easily accessible. Wash soiled clothing immediately.

Physical and Chemical Properties

Form:	powder	
Odour:	odourless	
Odour threshold:	s	not determined
Colour: pH value:	green	not soluble
Melting point:	> 200 °C	
Boiling point:		not applicable not applicable
Flash point:		applicable
Flammability:	not highly	(Directive 84/449/EEC, A.10)
Lower explosion limit:		As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.
Upper explosion limit:		As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used
Autoignition:	> 200 °C	
Vapour pressure:	2.14 g/cm ³	not applicable

Relative density:		
Bulk density:	approx.	
500		
	kg/m ³	
Vapour density:		The product is a non-volatile solid. not applicable
Partitioning coefficient n-octanol/water (log Pow):		(other)
Self-ignition temperature:	378 °C	not applicable
Viscosity, dynamic:		No data available. insoluble (20 °C)
Particle size:		The product is a non-volatile solid.

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 (other)

Minimum ignition energy:

approx. 1 bar, 20 °C (VDI 2263, sheet 1, 2.1.2)

The product is capable of dust explosion.

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

The product is not a dust explosion risk as supplied; however the build-up of fine dust can lead to a risk of dust explosions.

Conditions to avoid

Avoid humidity.

Incompatible materials

No substances known that should be avoided.

Hazardous decomposition products

Decomposition products:

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

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 not determined

Dermal

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.

Assessment other acute effects Assessment of STOT single:

The available information is not sufficient for evaluation.

Irritation / corrosion

Assessment of irritating effects: Not irritating to the skin. Not irritating to the eyes. The product has not been tested. The statement has been derived from the properties of the individual components.

Skin

Species: rabbit Result: non-irritant Method: Draize test

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: Draize test

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

Sensitization Species: guinea pig Result: Non-sensitizing.

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: The chemical structure does not suggest a specific alert for such an effect. The product has not been tested. The statement has been derived from the properties of the individual components.

Carcinogenicity

Assessment of carcinogenicity: No data available concerning carcinogenic effects.

Reproductive toxicity

Assessment of reproduction toxicity: The results of animal studies gave no indication of a fertility impairing effect. The product has not been tested. The statement has been derived from the properties of the individual components.

Teratogenicity

Assessment of teratogenicity: No indications of a developmental toxic / teratogenic effect were seen in animal studies. The product has not been tested. The statement has been derived from the properties of the individual components.

Symptoms of Exposure

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. No toxic effects occur within the range of solubility. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations. The product has not been tested. The statement has been derived from the properties of the individual components.

Toxicity to fish

LC50 (96 h) > 100 mg/l, *Oncorhynchus mykiss*

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

Aquatic invertebrates

EC50 (48 h) > 500 mg/l, *Daphnia magna*

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

Aquatic plants

EC50 (72 h) > 100 mg/l, *Scenedesmus subspicatus* (Guideline 92/69/EEC, C.3, static)

Nominal concentration. The product has low solubility in the test medium. An eluate has been tested. The product has not been tested. The statement has been derived from the properties of the individual components.

Chronic toxicity to fish

Study does not need to be conducted.

Chronic toxicity to aquatic invertebrates

No observed effect concentration (21 d) > 1 mg/l, Daphnia magna (OECD Guideline 211, semistatic) The details of the toxic effect relate to the nominal concentration.

Microorganisms/Effect on activated sludge

Toxicity to microorganisms

DIN 38412 Part 27 (draft) bacterium (0.5 h): > 500 mg/l

Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations. The product has not been tested. The statement has been derived from the properties of the individual components.

Persistence and degradability

Assessment biodegradation and elimination (H₂O)

Poorly biodegradable. Well eliminable from water by adsorption on activated sludge. The product is not very soluble in water and can thus be removed from water mechanically in suitable effluent treatment plants.

Elimination information

> 90 % colour reduction (Static test) Easily eliminated from water.

Bioaccumulative potential Assessment bioaccumulation potential

The product will not be readily bioavailable due to its consistency and insolubility in water.

Mobility in soil

Assessment transport between environmental compartments not determined

Additional information

Adsorbable organically-bound halogen (AOX):

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.

The product contains: copper

The heavy metals mentioned are present in complex bound form as substantial constituent of the colourant.

13. Disposal considerations

Waste disposal of substance:

Dispose of in accordance with national, state and local regulations.

Container disposal:

Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent

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
Air transport IATA/ICAO	Not classified as a dangerous good under transport regulations

15. Regulatory Information

Federal Regulations

Registration status:

Chemical TSCA, US released / listed

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

State regulations

State RTK

	CAS Number	Chemical name
NJ	1328-53-6~	C.I. Pigment Green 7 Proprietary
NJ	Trade Secret	Copper Compound

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

SDS Prepared by:

BASF NA Product Regulations SDS Prepared on: 2015/02/06