



## Material safety data sheet

According to EU Regulation 1907/2006 in the current version

### Hydrophilic Black Cosmetic Pigment

#### 1. Identification of the substance/mixture and company

Trade name: Hydrophilic black cosmetic pigment  
Natural hydrophilic Phytic acid coated oxide  
INCI CI 77499, Phytic acid, Sodium hydroxide  
CAS No. : 1317-61-9, 83-86-3, 1310-73-2  
EINESCS No. : 215-277-5, 201-506-6, 215-185-5  
REACH pre-registration No. : -  
Utilization: Raw material for cosmetic or professional use  
Supplier company identification: **Elemental SRL**, Piața Cazărmii no.15, 410188-Oradea, jud.Bihor, Romania  
Tel/Fax: +40259-436.755, www.elemental.eu  
Emergency: RO: număr național pentru cazuri de urgență: 021 3183606 Institutul de Sănătate Publică București.  
International emergency number: +49 180 2273-112

#### 2. Hazards Identification

##### 2.1 Classification of the substance or mixture

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).  
Adverse physico-chemical, human health and environmental effects: No other hazards

##### 2.2 Label elements

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).  
Special provisions according to Annex XVII of REACH and subsequent amendments: None

##### 2.3 Other hazards

No PBT Ingredients are present.  
Other Hazards: No other hazards.

#### 3. Declaration of ingredients

##### 3.1 Hazardous components within the meaning of the CLP regulation and related classification:

Substance	CAS	EINECS	Hazard symbols	Percent %
Phytic acid	83-86-3	201-506-6	Acute Tox. 4, H302; Skin Corr. 1A, H314; Eye Dam. 1, H318; Met. Corr. 1, H290	3-5 %
Triiron tetraoxide Reg. no. 01-2119457646-28-0000	1317-61-9	215-277-5	Self-heat. 2, H252	90-100 %
Sodium hydroxide Index:011-002-00-6 Reg. no. 01-2119457892-27-0000	1310-73-2	215-185-5	Skin Corr. 1A, H314	1-3 %



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#### 4. First aid measures

##### 4.1 Description of first aid measures

In case of skin contact: Wash with plenty of water and disinfectant/non-abrasive soap.

In case of eye contact: Wash immediately with water.

In case of ingestion: Do not induce vomiting, get medical attention showing the MSDS and hazards label.

In case of inhalation: Remove casualty to fresh air and keep warm and at rest.

##### 4.2 Most important symptoms and effects, both acute and delayed

Not Available

##### 4.3 Indication of any immediate medical attention and special treatment needed

None

#### 5. Fire fighting measures

##### 5.1 Extinguishing media

Suitable extinguishing media: Water, CO<sub>2</sub>, foam, chemical powders, according to the materials involved in the fire.

In case of fire, use foam, dry chemical, CO<sub>2</sub>.

Unsuitable extinguishing media: None in particular.

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

Do not inhale explosion and combustion gases. Burning produces heavy smoke.

##### 5.3 Advice for fire-fighters

Use suitable breathing apparatus. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Move undamaged containers from immediate hazard area if it can be done safely.

#### 6. Accidental release measures

##### 6.1 Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment. Remove persons to safety. See protective measures under point 7 and 8.

##### 6.2 Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Retain contaminated washing water and dispose of it following local legislation. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities if required.

##### 6.3 Methods and material for containment and cleaning up

Suitable material for cleaning up: dry and inert absorbing material (e.g. vermiculite, sand, earth). Wash with plenty of water.

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6.4 Reference to other sections

See also section 8 and 13.

**7. Handling and storage**

7.1 Precautions for safe handling:

Avoid contact with skin and eyes, inhalation of vapors and mists. Do not eat or drink while working. See also section 8 for recommended protective equipment.

7.2 Conditions for safe storage, including any incompatibilities

Store in a tightly closed container in a cool, dry, well-ventilated area.

Incompatible materials: None in particular.

Instructions regarding storage premises: Adequately ventilated premises.

7.3 Specific end use(s)

Recommendation(s): Storage temperature < 25°C

Industrial sector specific solutions: None in particular.

**8. Exposure controls / personal protection**



8.1 Control parameters

Community Occupational Exposure Limits (OEL):

Component	OEL Type	Country	Long Term mg/m <sup>3</sup>	Long Term ppm	Short Term mg/m <sup>3</sup>	Short Term ppm	Notes
BLACK IRON OXIDE	ACGIH	-	5	-	-	-	-
	NATIONAL	France	10	-	-	-	Total dust
	NATIONAL	France	5	-	-	-	Alveolar dust
SODIUM HYDROXIDE	ACGIH	-	-	-	2	-	-
	NATIONAL	France	2	-	-	-	-
	NATIONAL	Spain	-	-	2	-	-
	NATIONAL	Finland	-	-	2	-	-
	NATIONAL	Poland	0.5	-	1	-	-
	NATIONAL	Czech Republic	1	-	2	-	-
	NATIONAL	Portugal	-	-	-	-	-
	NATIONAL	United Kingdom	-	-	2	-	-



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#### 8.2 Exposure controls

Eye/face protection: Eye glasses with side protection.

Skin protection: Chemical protection clothing.

Hand protection: NBR (nitrile rubber).

Respiratory protection: Filtering Half-face mask (DIN EN 149).

Hygienic and Technical measures: Not Available

## 9. Physical and chemical properties

### 9.1 Information on physical and chemical properties

Appearance: powder

Color: black

Odor: odorless

Relative density (d 20 / 20): NA

Refractive index at 20°C: NA

Optical rotation (°): NA

Flash point: NA

Odor threshold: NA

pH: 5.50

Melting point / freezing point: NA

Initial boiling point and boiling range: NA

Evaporation rate: NA

Flammability (solid, gas): NA

Upper / lower flammability or explosive limits: NA

Vapor tension: NA

Vapor density: NA

Solubility in water: hydrophilic

Lipid solubility: Insoluble

Partition coefficient: n-octanol / water NA

Auto-ignition temperature: NA

Decomposition temperature: NA

Viscosity: NA

Explosive properties: NA

Oxidizing properties: NA

### 9.2 Other information

Substance group relevant properties: Not Available

Miscibility: Not Available

Conductivity: Not Available

## 10. Stability and reactivity

### 10.1 Reactivity

Stable under normal conditions.



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#### 10.2 Chemical stability

Data not Available.

#### 10.3 Possibility of hazardous reactions

Burning produces carbon monoxide and/or carbon dioxide.

#### 10.4 Conditions to avoid

Stable under normal conditions of temperature and pressure.

#### 10.5 Incompatible materials

Avoid strong oxidizing agents, peroxides, acids, alkali metals.

#### 10.6 Hazardous decomposition products

Burning produces carbon monoxide and/or carbon dioxide.

## 11. Toxicological information

### 11.1 Information on toxicological effects

Toxicological Information of the Preparation:

a) skin corrosion/irritation:

Skin Irritant: No Irritant effect - OCDE 439 Episkin

b) serious eye damage/irritation:

Eye Irritant No Irritant effect - OCDE 437 BCOP OCDE 492 EpiOcular on LC985PHY (0-2% of Phytic acid)

Toxicological information on main components of the mixture:

Triiron tetraoxide a) carcinogenicity: - Carcinogeneticity Rat Negative

- Genotoxicity Negative OCDE 473

OCDE 471

In vitro mammalian chromosome aberration test: OCDE 473 (hamster)

Reverse mutational assay (Ames test):OCDE 471

(Salmonella typhimurium)

b) reproductive toxicity Reproductive Toxicity Negative

c) respiratory or skin sensitization Inhalation Sensitization Rat 5000.00000 mg/kg

d) skin corrosion/irritation Skin Irritant Rabbit No Irritant effect 24h OCDE 404

e) serious eye damage/irritation Eye Irritant Rabbit No Irritant effect OCDE 405

f) acute toxicity LD50 Oral Rat > 5000.00000 mg/kg Standard acute method

No Observed Adverse Effect Level (NOAEL) OECD 413

Inhalation Rat = 4.70000 mg/m<sup>3</sup>

Phytic acid

a) skin corrosion/irritation Skin Irritant Yes due to pH<2

b) serious eye damage/irritation Eye Irritant Yes due to pH<2

c) acute toxicity LD50 Oral Mouse = 0.90000 g/kg

LD50 Oral Rat = 0.40000 g/kg

Sodium hydroxide a) respiratory or skin sensitization Inhalation Sensitization Positive

b) skin corrosion/irritation Skin Corrosive Positive

c) serious eye damage/irritation Eye Corrosive Positive

Sub-acute and Chronic Toxicity



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Component	CMR Properties	Effect dose	Value	Exposure time	Species	Method	Evaluation	Remark
Triiron tetraoxide	Chronic inhalative	-	-	-	-	-	-	Potential chronic respiratory irritation

**12. Ecological information**

12.1 Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-toxicity:

List of Eco-Toxicological properties of the components

Quantity	Component	Ident. Numb.	Ecotox Data
90-100 %	Triiron tetraoxide	CAS: 1317-61-9 EC: 215-277-5	a) Bacteria toxicity: EC0 > 1000.00000 mg/l 24h - Static test EU C.2
			b) Aquatic acute toxicity: LC0 Fish >1000.00000 mg/l 48h – Static test OCDE 203
1-3 %	Sodium hydroxide	CAS: 1310-73-2 EC: 215-185-5	a) Aquatic acute toxicity: LC50 Fish <189.00000 mg/l 96h IUCLID - static

12.2 Persistence and degradability

Component	Persistence/Degradability:
Triiron tetraoxide	Not Biodegradable
Phytic acid	Rapidly Biodegradable

12.3 Bioaccumulative potential

Component	Bioaccumulation
Triiron tetraoxide	Not bioaccumulative
Sodium hydroxide	Not bioaccumulative

12.4 Mobility in soil

Component	Mobility in soil
Triiron tetraoxide	Not mobile

12.5 Results of PBT and vPvB assessment

No PBT Ingredients are present

12.6 Other adverse effects Not Available



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### 13. Disposal considerations

#### 13.1 Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.

### 14. Transport information

#### 14.1 UN number

ADR: -

IMDG: -

IATA: -

Customs Code: -

#### 14.2 UN shipping name

ADR: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

#### 14.3 Class of danger for transport

ADR: -

IMDG: -

IATA: -

#### 14.4 Packing group

ADR: -

IMDG: -

IATA: -

### 15. Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Regulation (EU) n. 453/2010 (Annex II)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product: 3



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Restrictions related to the substances contained: None  
Provisions related to directive EU 2012/18 (Seveso III): Not Available  
German Water Hazard Class: Not Available  
SVHC Substances: No Data Available

15.2 Chemical Safety Assessment  
Chemical Safety Assessment: No

#### 16. Additional information

##### 16.1 Codes:

Code	Description
H252	Self-heating in large quantities; may catch fire.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.

Code	Hazard class and hazard category	Description
2.11/2	Self-heat. 2	Self-heating substance or mixture, Category 2
2.16/1	Met. Corr. 1	Substance or mixture corrosive to metals, Category 1
3.1/4/Oral	Acute Tox. 4	Acute toxicity (oral), Category 4
3.2/1A	Skin Corr. 1A	Skin corrosion, Category 1A
3.3/1	Eye Dam. 1	Serious eye damage, Category 1

##### 16.2 Abbreviations:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.  
CAS: Chemical Abstracts Service (division of the American Chemical Society).  
CLP: Classification, Labeling, Packaging.  
DNEL: Derived No Effect Level.  
EINECS: European Inventory of Existing Commercial Chemical Substances.  
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.  
IATA: International Air Transport Association.  
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).  
ICAO: International Civil Aviation Organization.  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).  
IMDG: International Maritime Code for Dangerous Goods.  
INCI: International Nomenclature of Cosmetic Ingredients.  
LTE: Long-term exposure.





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PNEC: Predicted No Effect Concentration.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

STE: Short-term exposure.

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

#### DECLARATION OF ALLERGENS

7th Amendment to Directive 76/768/EC, annex III, part I (2003/15/EC)

INCI	CAS	%
Alpha-Hexyl cinnamic aldehyde (HCA)	101-86-0	-
Amyl cinnamic alcohol	101-85-9	-
Amyl cinnamic aldehyde (ACA)	122-40-7	-
Anisyl alcohol	105-13-5	-
Benzyl salicylate	118-58-1	-
Benzyl benzoate	120-51-4	-
Benzyl cinnamate	103-41-3	-
Benzyl alcohol	100-51-6	-
Cinnamic alcohol	104-54-1	-
Cinnamic aldehyde	104-55-2	-
Citral	5392-40-5	-
Citronellol	106-22-9	-
Coumarin (2p-1-benzopyran-2-one)	91-64-5	-
d-Limonene	5989-27-5	-
Eugenol	97-53-0	-
Farnesol	4602-84-0	-
Geraniol	106-24-1	-
Lylal (Hydroxymethylpentyl cyclohexene carbaldoxaldehyde)	31906-04-4	-
Hydroxycitronellal	107-75-5	-
Isoeugenol	97-54-1	-
alpha-Iso-methyl ionone	127-51-5	-
Linalool	78-70-6	-



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Methyl heptine carbonate	12/06/11	-
Oakmoss absolute	9000-50-4	-
p-tert-Butyl-alpha- methylhydrocinnamic aldehyde	80-54-6	-
Tree moss	68648-41-9	-

#### Disclaimer:

This material safety data sheet does not constitute a guarantee of the properties of the product and is not a contractual legal report. The information is given in good faith on the basis of our best knowledge of the product at the indicated time. However, we cannot accept responsibility or liability for any consequences arising from its use, no warranty for correctness and completeness is given. We caution the users against the incurred possible risks when the product is used at other ends than the use for which it was initially planned. It is the user's responsibility during handling, storage and product use to consult the main regulatory texts in force regarding workers and environment protection.