

PIGMENTO MINERAL ÓXIDO HIERRO MARRÓN

FICHA DE SEGURIDAD

According to Regulation (EU) No. 1907/2006 (REACH) COMMISSION REGULATION (EU) 2020/878

Rev. Date: 01/2023

1 Identification of the substance/preparation and of the company/undertaking

1.1 Product identifier

Trade name	: PIGMENTO MINERAL COSMÉTICO ÓXIDO HIERRO MARRÓN
Substance Name	: Triiron Tetraoxide
Color Index N.	: Pigment Red 101 : 77491
	: Pigment Yellow 42: 77492
	: Pigment Black 11: 77499

2. Relevant identified uses of the substance or mixture and uses advised against Suitable uses: Inorganic colorants for cosmetics, food and pharmaceutical application.

3. Details of the supplier of the safety data sheet Supplier

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Pol. Montecillo, Nave 3D
50520 Magallón Zaragoza -
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Telf. 976867474
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4. Emergency telephone No. : 112-Spanish Service of Toxicology +34 91 562 04 20

2 Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification : Not classified.

2.2 Label elements

Hazard pictograms : Not applicable.

Signal word : No signal word.

Hazard statements : No known significant effects or critical hazards.

Precautionary statements

Prevention : Not applicable.

Response : Not applicable.

Storage : Not applicable.

Disposal : Not applicable.

2.3 Other hazards

This mixture does not meet the PBT and vPvB criteria of the REACH regulation, annex XIII. Does not contains PBT/vPvB substances $\geq 0.1\%$ according to REACH Annex XIII.

Substances in this product are not listed as having endocrine-disrupting properties in accordance with REACH Article 59(1), and are not identified as having endocrine-disrupting properties in accordance with the criteria established in REACH. Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

3 Composition/information on ingredients

Product definition (REACH) : mixing

Ingredient name	CAS No.	%(w/w)	REACH registration No.
Synthetic red iron oxide	1309-37-1	41-45	01-2119457614-35-00**
Synthetic yellow iron oxide	20344-49-4	30-34	01-2119457554-33-00**
Synthetic black iron oxide	1317-61-9	25-26	01-2119457646-28-00**

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting in this section, in accordance with EU or national regulations.

4 First aid measures

4.1 Description of first aid measures

Inhalation : Move exposed person to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention if symptoms occur. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact : No special measure required.

Eyes contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

Ingestion : No special measure required.

4.2 Most important symptoms and effects, both acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

4.3 Indication of any immediate medical attention and special treatment needed

See Section 11 for more detailed information on health effects and symptoms.

5 Fire-Fighting measures

1. Extinguishing media

Suitable extinguishing media : In case of fire, use water spray (fog), foam, dry chemical or CO₂.

Unsuitable extinguishing media: None known.

2. Special hazard arising from the substance or mixture

Hazards from the substance or mixture: No specific fire or explosion hazard.

Hazardous combustion products : No specific data.

5.3 Advice for firefighters

Special precautions for : Not applicable.

Fire-fighters

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6 Accidental release measures

1. Personal precautions, protective equipment and emergency procedures

: No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Avoid breathing dust. Provide adequate ventilation. Put on appropriate personal protective equipment (see Section 8). Hazard of slipping on spilt product.

2. Environmental Precautions

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

3. Methods and materials for containment and cleaning up

Small spill

: Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Large spill

: Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.

6.4 Reference to other sections

: See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

7 Handling and storage

1. Precautions for safe Handling

: No special measures required.

2. Conditions for safe storage, including any incompatibilities

: Do not store above the following temperature: 80°C (176°F).
 No special measures required.

7.3 Specific end use(s)

Recommendations : Not available. **Industrial sector specific solutions:** Not available.

8 Exposure control/personal protection

8.1 Control parameters

Exposure limit values : Not available.

Derived effect levels						
Ingredient name	Type	Exposure	Value	Population	Effects	Remarks
Triiron tetraoxide	DNEL	Long term Inhalation	10 mg/m ³	Workers	Local	Inhalable Dust
	DNEL	Long term Inhalation	3 mg/m ³	Workers	Local	Respirable Dust
Conclusion/Summary		: DNEL : Dust Inhalable 10 mg/m ³ , Respirable dust 3 mg/m ³				
Diiron trioxide	DNEL	Long term Inhalation	10 mg/m ³	Workers	Local	Inhalable Dust
	DNEL	Long term Inhalation	3 mg/m ³	Workers	Local	Respirable Dust
Conclusion/Summary		: DNEL : Dust Inhalable 10 mg/m ³ , Respirable dust 3 mg/m ³				
Iron hydroxide	DNEL	Long term Inhalation	10 mg/m ³	Workers	Local	Inhalable Dust
	DNEL	Long term Inhalation	3 mg/m ³	Workers	Local	Respirable Dust
Conclusion/Summary		: DNEL : Dust Inhalable 10 mg/m ³ , Respirable dust 3 mg/m ³				

Predicted effect concentrations					
Ingredient name	Type	Compartment Detail	Value	Method Detail	Remarks
Conclusion/Summary		: PNECs : Not applicable.			

Recommended monitoring procedures: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

8.2 Exposure controls

Risk management measures

Occupational exposure controls

Technical measures

: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Personal protection measures

Respiratory protection

: Recommended: Dust-protection ma

Hand protection

: Recommended: gloves

Eye protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If operating conditions cause high dust concentrations to be produced, use dust goggles.

Skin protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Environmental exposure controls

Technical measures

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

General information

Appearance

Physical state

: Solid. [powders]

Colour

: Brown

Odour

: Odourless.

Important health, safety and environmental information

pH	: 4 to 8 [Conc. (% w/w): 5%]
Melting point	: 1597°C
Density	: 5,17 kg/L (20 °C)
Solubility	: <0.000001g/l(water)
Decomposition Temperature:	>80°C

9.2 Other information

No additional information.

10 Stability and reactivity

- 10.1 Reactivity** : No specific test data related to reactivity available for this product or its ingredients.
- 10.2 Chemical stability** : The product is stable.
- 10.3 Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- 10.4 Conditions to avoid** : At temperatures above 80 °C the product may become unstable and oxidize. This generates additional heat which, under unfavorable conditions, may result in the combustion of flammable materials. The product should therefore not be stored near heat sources.
- 10.5 Incompatible materials** : No specific data.
- 10.6 Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11 Toxicological information
1. Information on toxicological effects
Potential acute health effects

Eye contact : Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.

Acute toxicity

ingredient name	Result	Species	Dose	Exposure	Test
triiron tetraoxide	LD50 Oral	Rat	>5000 mg/kg	-	-
Diiron trioxide	LD50 Oral	Rat	>5000 mg/kg	-	-
Iron hydroxide	LD50 Oral	Rat	>5000 mg/kg	-	-

Toxicity	
Oral	Not classified
Dermal	Not classified
Endocrine-disrupting properties	Not classified
Inhalation	Not classified
Irritation/ skin corrosion	Not classified
Irritation / ocular damage	Not classified
Respiratory sensitization	Not classified
Skin sensitization	Not classified
Carcinogenic	Not classified
Dangerous Inhalation	Not classified
Mutagenic	Not classified
Reproductive toxicity	Not classified
Specific Target Organ Toxicity (Single exposure)	Not classified

Chronic effects : Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

12 Ecological information

12.1 Toxicity

Ingredient name	Test	Result	Species	Exposure
Triiron tetraoxide	EU C.2	Acute EC0 >10000 mg/l	Daphnia - Daphnia Magna	48 hours
Diiron trioxide	-	-	-	-
Iron hydroxide Oxide	OECD 203 Fish, Acute Toxicity Test	Acute LC0 >10000 mg/l	Fish – Danio rerio	96 hours

Conclusion/Summary : Not available

2. Persistence and degradability

Conclusion/Summary : Not available.

3. Bio accumulative potential

Conclusion/Summary : Not available.

4. Mobility in soil

Soil/water partition coefficient (KOC) : Not available.

Mobility : Not available.

5. Results of PBT and vPvB assessment

PBT : Not available.

vPvB : Not available.

12.6 Endocrine disrupting properties

There is no additional information available.

12.7. Other adverse effects

Other adverse effects : Not available.

Remarks : No known significant effects or critical hazards.

13 Disposal considerations

13.1 Waste treatment methods Product

Methods of disposal : Examine possibilities for re-utilization. Product residues and uncleaned empty containers should be packaged, sealed, labeled, and disposed of or recycled according to relevant national and local regulations. Where large quantities are concerned, consult the supplier. When uncleaned empty containers are passed on, the recipient must be warned of any possible hazard that may be caused by residues. For disposal within the EC, the appropriate code according to the European Waste List (EWL) should be used. It is among the tasks of the polluter to assign the waste-to-waste codes specific to industrial sectors and processes according to the European Waste List (EWL).

Hazardous waste : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

Packaging

Methods of disposal : The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions : This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

14 Transport information

	ADR/RID	ADN/ADNR	IMDG	IATA
14.1 UN number	-	-	-	-
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)/Marks	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	-	No	No	No
14.6 Special precautions for user/Additional information	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code				
	: Not available.			
Hazard notes	: Not dangerous cargo.			
	Keep separated from foodstuffs.			

15 Regulatory information

1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

: Not applicable.

2. Chemical Safety

Assessment

: Not applicable.

16 Other information

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation
[Regulation (EC) No.1272/2008]

DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

PNEC = Predicted No Effect Concentration

RRN = REACH Registration Number

Notice to reader

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet and its Annex [if required according to Regulation (EC) 1907/2006 (REACH)] is to describe the products in terms of their safety requirements. The given details do not imply any guarantee concerning the composition, properties or performance.