

According to OSHA 29 CFR 1910.1200 - GHS

*Revision date:* January 20, 2015

## Supersedes: September 29, 2011

## NUBIFER SYNTHETIC YELLOW IRON OXIDES

## **1. PRODUCT AND COMPANY IDENTIFICATION**

Product name:	Nubifer Y-2022, Y-4011, Y-4021, Y-5010
	Nubifer Y-5011, Y-5020, Y-5021, Y-5028
	Y-700 Iron Oxide Yellow
Use:	Coloring agents, Pigments
Company identification:	NUBIOLA USA
	6369 Peachtree Street
	Norcross, GA 30071, USA
	Tel +1 (770) 277-8819
	nuproducts.safety@nubiola.com
Emergency telephone number:	800-424-9300 (CHEMTREC, 24 hours)
	International call: 703-527-3887 (collect calls accepted)

## 2. HAZARDS IDENTIFICATION

Classification of the chemical in accordance with Standard 29 CFR 1910.1200 (US-GHS) Not classified.

# Label elements (Hazard Communication Standard 29 CFR 1910.1200 (US- GHS)

No labelling applicable.

## **3. COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical name	CAS No	Concentration (%)	RTECS No
Iron hydroxide oxide yellow (Pigment Yellow 42, CI 77492)	51274-00-1	100	

#### Substance / Mixture: Substance

Synonyms: Yellow Iron Oxide

#### **4. FIRST-AID MEASURES**

Description of first-aid measures	
In case of inhalation:	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable
	for breathing. If you feel unwell, seek medical attention.
In case of skin contact:	Rinse skin with water. If skin irritation occurs, get medical advice.
In case of eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact
	lenses, if present and easy to do. Continue rising. If eye irritation occurs, get medical
	advice.
In case of ingestion:	Rinse mouth. Do not induce vomiting unless directed to do so by a physician. If you feel unwell, seek medical attention.



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

Not expected to present a significant hazard under anticipated conditions of normal use.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically and supportively.

## 5. FIRE-FIGHTING MEASURES

#### **Extinguishing Media**

Suitable Extinguishing Media:Foam, water spray, dry chemical powder, carbon dioxide or sand.Unsuitable Extinguishing Media:Do not use a heavy water stream.Specific hazards arising from the chemicalDo not use a heavy water stream.No specific fire or explosion hazard.Special protective equipment and precautions for fire-fightersWear self-contained breathing apparatus and protective clothing.For fire-fighters

## 6. ACCIDENTAL RELEASE MEASURES

#### **Personal precautions**

Provide adequate ventilation. Evacuate unnecessary personnel. Wear personal protection equipment (See section 8). Environmental precautions Do not allow to enter into surface water or drains. Ensure waste is collected and contained. Methods for containment and clean up On land, sweep or shovel into suitable containers for disposal or recovery. Minimize generation of dust.

#### 7. HANDLING AND STORAGE

#### Precautions for safe handling

Handling:

Avoid breathing dust. Wash thoroughly after handling. Keep container tightly closed. Wear appropriate personal protective equipment as specified in Section 8. Provide adequate ventilation to minimize dust and/or vapor concentrations.

Technical protective measures: Provide adequate vent Conditions for safe storage, including any incompatibilities

Storage:

Keep only in the original container in cool, dry, well-ventilated places away from incompatible materials. Keep container closed when not in use.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Occupational exposure limits

OSHA, ACGIH and NIOSH have established the following limits for Iron Oxides:

Exposure Limits: Iron Oxides			
ACGIH TLV	OSHA PEL	NIOSH REL	
Total dust: 10 mg/m <sup>3</sup> <i>as</i> Fe (8h) Respirable: 5 mg/m <sup>3</sup> <i>as</i> Fe (8h)	Fumes: 10 mg/m <sup>3</sup> (8h) Respirable dust: 5 mg/m <sup>3</sup> (8h)	5 mg/m <sup>3</sup> as Fe (dust and fumes)	



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#### Appropriate engineering controls

 If needed use local exhaust ventilation to keep dust concentration bellow limits cited in this Section.

 Personal protective equipment

 Respiratory protection:
 Dust mask required in dusty environments or exceeding total dust limits.

 Eye/face protection:
 Wear appropriate chemical safety glasses/goggles.

 Hand /Skin protection:
 Wear appropriate protective gloves and clothing.

 General Hygiene Considerations
 Do not eat, drink or smoke when using this protect. Wash hands thoroughly after handing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Appearance:	Solid, fine powder
Color:	Yellow
Odor:	Odorless
pH:	4 – 7 [ASTM D-1208-78]
Melting point:	> 1000 °C
Boiling point:	Not applicable
Flash point:	Not applicable
Flammability (solid, gas):	Not applicable
Explosive properties:	Not explosive
Vapor pressure at 20°C:	Not applicable
Vapor density:	Not applicable
Density:	3.5 – 4.5 g/cm <sup>3</sup> [ASTM D-153-84] (water=1)
Density:	3.5 – 4.5 g/cm <sup>3</sup> [ASTM D-153-84] (water=1)
Solubility in water:	Insoluble
Partition coefficient, n-octanol/water:	Not applicable
Auto-ignition temperature:	Not applicable
Decomposition temperature:	> 180 °C
Viscosity:	Not applicable

#### **10. STABILITY AND REACTIVITY**

#### Reactivity

No hazardous reaction known under normal conditions of use **Chemical stability** Stable under normal conditions **Possibility of hazardous reactions** Stable under normal conditions **Conditions to avoid** At temperatures above 180 °C conversion into Fe<sub>2</sub>O<sub>3</sub> **Incompatible materials** Strong acids and bases **Hazardous decomposition products** None under normal conditions



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#### **11. TOXICOLOGICAL INFORMATION**

Acute oral Toxicity: Acute Toxicity: Chronic Toxicity: Irritation: Sensitization: Mutagenicity: Carcinogenicity: Reproductive toxicity: Aspiration hazard: LD50 oral, rat: > 10000 mg/kg Based on available data, the classification criteria are not met Based on available data, the classification criteria are not met Non-irritant Non-sensitizing Non-mutagenic No human carcinogen No toxic for reproduction Not applicable

#### **12. ECOLOGICAL INFORMATION**

#### Ecotoxicity

Based on available data, the classification criteria are not met LC50 (Fish 96 h) : > 100000 mg/L (Danio rerio) Persistence and degradability Not applicable (Inorganic substance) Bioaccumulative potential Not applicable Mobility in soil Not applicable Results of PBT and vPvB assessment The substance does not meet the criteria to be identified as PBT or vPvB

#### **13. DISPOSAL CONSIDERATIONS**

Dispose in a safe manner in accordance with local / state / Federal regulations. Avoid release to the environment. It is responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal method in compliance with applicable regulations.

#### **14. TRANSPORT INFORMATION**

#### DOT

Not regulated. Not dangerous good. **Transport by sea (IMO / IMDG)** Not regulated. Not dangerous good **Air transport (ICAO/ IATA)** Not regulated. Not dangerous good



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### **15. REGULATORY INFORMATION**

#### **US Federal Regulations**

TSCA: CAS # 51274-00-1 is listed on TSCA Inventory

#### **SARA Title III Rules**

Section 302 – Extremely Hazardous Substances: Section 304 – CERCLA Hazardous Substances:		None None
Immediate (Acute):	None	
Delayed (Chronic):	None	
Fire:	None	
Release of pressure:	None	
Reactivity:	None	
Section 313 – Toxic Chemical Release Inventory (TRI):		

### Section 313 – Toxic Chemical Release Inventory (TRI):

#### **US State Regulations**

Yellow Iron Oxides do not appear on the following state Right-To-Know Lists:

California Proposition 65 Florida Hazardous Substances List Massachusetts Substance List Michigan Critical Materials Register Minnesota Hazardous Substances List New Jersey Hazardous Substance List Pennsylvania Hazardous Substance List

#### FDA

Yellow Iron Oxide is cleared in 21 CFR:

Part 178 under §178.3297 (Colorants for polymers) Part 177 under §177.2600 (Colorants in Rubber Articles intended for repeated Use) Part 177 under §177.1210 (Closures with sealing gaskets for food containers) Part 175 under §175.300 (Resinous and polymeric coatings) Note: For food contact applications, users are asked to contact our technical service for further information.

#### Canada

DSL (Canadian Environmental Protection Act, Domestic Substances List): included

### **European Union**

REACH (Regulation (EC) No 1907/2006): Nubiola registered substance, REACH no: 01-2119457554-33 EINECS (European Inventory of Existing Commercial Chemical Substances): 257-098-5 CLP (Regulation (EC) No 1272/2008): Yellow Iron Oxide is not classified as hazardous substance



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#### **16. OTHER INFORMATION**

Modification(s) to the previous version: compliance with 29CFR part 1910 subpart Z (2012)-GHS adaptation

This Safety Data Sheet complies with OSHA Hazard Communication Standard 29 CFR 1910.1200 (HCS-2012) and its adaptation of United Nations 'Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

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