SAFETY DATA SHEET

Yellow iron oxide

Laguna Clay Company #MIROXY

1. Identification

Product identifier

Product name

Yellow iron oxide

Product number

569,5190,5191

Recommended use of the chemical and restrictions on use

Application

Industrial color

Details of the supplier of the safety data sheet

Supplier

Huntsman Pigments Americas LLC
P.O. Box 4980
The Woodlands, TX 77387
+1 301 210 3400 / +1 323 269 7311
MSDS@huntsman.com

Emergency telephone number

Emergency telephone

CHEMTREC: (800) 424-9300 (Contract number: 191118)

2. Hazard(s) identification

Classification of the substance or mixture

Physical hazards

Not Classified

Health hazards

Not Classified

Environmental hazards

Not Classified

Label elements

Hazard statements

NC Not Classified

3. Composition/Information on ingredients

Mixtures

C.I. PIGMENT YELLOW 42

98.0%

CAS number: 51274-00-1

REACH registration number: Proprietary

Classification

Not Classified

The Full Text for all Hazard Statements are Displayed in Section 16.

4. First-aid measures

Description of first aid measures

Inhalation

If exposed to excessive levels of dust or fumes, remove to fresh air. Get medical attention if cough or other symptoms develop.
Yellow iron oxide

Ingestion
Rinse mouth thoroughly with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed by medical personnel. Get medical attention if symptoms occur.

Skin Contact
Wash with soap and water. Get medical attention if irritation develops or persists.

Eye contact
Rinse with water. Get medical attention if any discomfort continues.

5. Fire-fighting measures

Extinguishing media
The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.

Extinguish with the following media: Water spray, foam, dry powder or carbon dioxide.

Special hazards arising from the substance or mixture

Flammability Class
No Uniform Fire Code noted.

Advice for firefighters

Protective actions during firefighting
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Special protective equipment for firefighters
Wear self-contained breathing apparatus as combustion may produce hazardous fumes.

6. Accidental release measures

Methods and material for containment and cleaning up

Methods for cleaning up
If dust is generated, use appropriate respiratory protection. Vacuum or sweep up material and place in a disposal container. Avoid generation and spreading of dust. Large Spillages: Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water. Avoid runoff into storm sewers and ditches which lead to waterways.

7. Handling and storage

Precautions for safe handling
Usage precautions
Minimize dust generation and accumulation. Do not breathe dust. Avoid contact with skin and eyes. Wash contaminated skin thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Storage precautions
Store dry at ambient temperature away from food and beverages, excessive heat or flame sources (furnace, kilns, boilers etc.). Store away from substances subject to catalytic decomposition by dust, e.g. peroxides Store at temperatures not exceeding 55°C/130°F.

8. Exposure Controls/personal protection

Ingredient comments
Although no exposure limit has been established by OSHA for this product, the limit for nuisance particulates should be followed: OSHA 8-hr TWA 10mg/m3 Total Dust 5 mg/m3 respirable dust. ACGIH TLV-TWA 10mg/m3 Total dust or 5mg/m3 respirable dust.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance
Dusty powder.

Color
Yellow. to Buff.
Yellow iron oxide

Odor: Odorless.

pH: pH (diluted solution): 4-8 @ 10%

Melting point: > 1000 deg C / 1832 deg F

Solubility(ies): Insoluble in water.

Volatile organic compound: None.

10. Stability and reactivity

Reactivity: There are no known reactivity hazards associated with this product.

Stability: From ca. 60°C, transformation of black iron oxide to Fe2O3 will occur as an exothermic reaction. Yellow iron oxide will lose water of hydration at 180°C and convert to Fe2O3.

Possibility of hazardous reactions: None known.

Conditions to avoid: Keep at temperature not exceeding 55°C/130°F.

Materials to avoid: Substances subject to catalytic decomposition caused by dust such as peroxides. Further avoid contact with aluminum dust, calcium hypochlorite, hydrazine, ethylene oxide, caesium carbide.

Hazardous decomposition products: No known hazardous decomposition products.

11. Toxicological information

Information on toxicological effects

Toxicological effects: No information available.

Inhalation: Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.

Ingestion: No harmful effects expected from quantities likely to be ingested by accident.

Skin Contact: Substance may cause slight skin irritation.

Eye contact: May cause slight irritation.

12. Ecological Information

Ecotoxicity: The product is not expected to be hazardous to the environment.

Persistence and degradability: The product is not readily biodegradable.

Bioaccumulative potential: Bioaccumulation is unlikely to be significant because of the low water-solubility of this product.

Mobility in soil: The product is insoluble in water.

Results of PBT and vPvB assessment
Yellow iron oxide

Results of PBT and vPvB assessment
This product does not contain any substances classified as PBT or vPvB.

Other adverse effects
None known.

13. Disposal considerations

Waste treatment methods
General information
Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements.

14. Transport information

General
The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DoT).

15. Regulatory information

US Federal Regulations
SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities
None of the ingredients are listed or exempt.

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)
None of the ingredients are listed or exempt.

SARA 313 Emission Reporting
None of the ingredients are listed or exempt.

CAA Accidental Release Prevention
None of the ingredients are listed or exempt.

OSHA Highly Hazardous Chemicals
None of the ingredients are listed or exempt.

US State Regulations
State Regulations Comments
California Prop 65 Warning: This product contains chemicals, as trace impurities and not intentionally added, known to the state of California to cause cancer (C) and birth defects or other reproductive (R) harm.

Massachusetts "Right To Know" List
C.I. PIGMENT YELLOW 42
Not listed.

Rhode Island "Right To Know" List
C.I. PIGMENT YELLOW 42
Not listed.

Minnesota "Right To Know" List
C.I. PIGMENT YELLOW 42
Not listed.
Yellow iron oxide

New Jersey "Right To Know" List
C.I. PIGMENT YELLOW 42
Not listed.

Pennsylvania "Right To Know" List
C.I. PIGMENT YELLOW 42
Not listed.

Inventories
EU - EINECS/ELINCS
EINECS
All the ingredients are listed or exempt.

Canada - DSL/NDSL
DSL
All the ingredients are listed or exempt.

US - TSCA
All the ingredients are listed or exempt.

US - TSCA 12(b) Export Notification
No.

Australia - AICS
All the ingredients are listed or exempt.

Japan - MITI
All the ingredients are listed or exempt.

Korea - KECI
All the ingredients are listed or exempt.

China - IECSC
All the ingredients are listed or exempt.

Philippines - PICCS
All the ingredients are listed or exempt.

New Zealand - NZIOC
All the ingredients are listed or exempt.

<table>
<thead>
<tr>
<th>16. Other Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revision date</td>
</tr>
<tr>
<td>Revision</td>
</tr>
<tr>
<td>Supersedes date</td>
</tr>
<tr>
<td>SDS No.</td>
</tr>
<tr>
<td>SDS status</td>
</tr>
</tbody>
</table>

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.