Burnt Amber XtDk

SAFETY DATA SHEET

LANXESS
Energizing Chemistry

Section 1. Identification

Product identifier	:	638 F
Material Number	:	05549574
Chemical family	:	iron oxide
Identified uses	:	Inorganic pigment
Supplier/Manufacturer	:	LANXESS Corporation Product Safety & Regulatory Affairs 111 RIDC Park West Drive Pittsburgh, PA 15275-1112 USA For information: US/Canada (800) LANXESS International +1 412 809 1000
In case of emergency	:	Chemtrec (800) 424-9300 International (703) 527-3887 Lanxess Emergency Phone (800) 410-3063.

Section 2. Hazards identification

HAZCOM Standard Status	:	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Physical state	:	Powder.
Color	:	Brown.
Classification of the substance or mixture	:	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 1A TOXIC TO REPRODUCTION (Fertility) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (central nervous system (CNS) and lungs) - Category 2 Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 54.1%
Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	Causes serious eye irritation. Causes skin irritation. May cause cancer. Suspected of damaging fertility. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure. (central nervous system (CNS), lungs)
Hazard Not Otherwise Classified (HNOC)	:	Causes digestive tract burns.
Precautionary statements		
Prevention	:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/clothing and eye/face protection. Use only in a well-ventilated area. Do not breathe dust or mist. Wash hands thoroughly after handling.

ection 2. Hazards identification

Response : Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

Storage : Store locked up.

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplemental label elements : Do not taste or swallow. Wash thoroughly after handling. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink. Corrosive to digestive tract

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	%	CAS number
Umber	25 - 50	12713-03-0
Manganese Oxide	10 - ≤25	1313-13-9
Crystalline Quartz Silica	10 - ≤25	14808-60-7
Manganese	≤10	7439-96-5
aluminum Oxide.	≤5	1344-28-1
Magnesium oxide	≤5	1309-48-4
Calcium Oxide	<3	1305-78-8

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of first aid measures

Eye contact : Check for and remove any contact lenses. Get medical attention. In case of contact, flush eyes with plenty of water for at least 20 minutes. Use fingers to ensure that eyelids are separated and that the eye is being irrigated.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention. 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. If not breathing, if breathing is irregulor or respiratory arrest occurs, provide artifical respiration, or oxygen by a trained professional, using a pocket type respirator.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse. In case of contact, flush skin with plenty of water for at least 20 minutes.

Ingestion : Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. 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.

Potential acute health effects

ection 4. First aid measures

Eye contact : Causes serious eye irritation.

Inhalation : May cause respiratory irritation.

Skin contact : Causes skin irritation.

Ingestion : Corrosive to the digestive tract. Causes burns. Irritating to mouth, throat and stomach.

Over-exposure signs/symptoms

Eye contact : Causes irritation with symptoms of reddening, tearing, stinging, and swelling.

Inhalation : May cause respiratory tract irritation with symptoms of coughing, sore throat and runny nose.

Skin contact : Causes irritation with symptoms of reddening, itching, and swelling.

Ingestion : Corrosive with symptoms of coughing, burning, ulceration, and pain. May cause irritation; Symptoms may include abdominal pain, nausea, vomiting, and diarrhea.

Potential chronic health effects

May cause damage to organs through prolonged or repeated exposure. Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation. Suspected of causing cancer. Suspected of damaging fertility.

Notes to physician : Treat symptomatically. No specific treatment.

Protection of first-aiders : No special measures required.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire. In case of fire, use water spray (fog), foam or dry chemical.

Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical : No specific fire or explosion hazard.

Hazardous thermal decomposition products : Decomposition products may include the following materials: metal oxide/oxides

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

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.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Environmental precautions : Avoid dispersal of spilled 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).

ection 6. Accidental release measures

Methods and materials for containment and cleaning up : Move containers from spill area. Approach release from upwind. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, 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. Prevent entry into sewers, water courses, basements or confined areas.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe dust. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Remove contaminated clothing and protective equipment before entering eating areas. Workers should wash hands and face before eating, drinking and smoking. Put on appropriate personal protection equipment. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Conditions for safe storage : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Empty containers retain product residue and can be hazardous. Do not reuse container.

Section 8. Exposure controls/personal protection

Occupational exposure limits

Ingredient name	Exposure limits
Umber	**OSHA PEL (United States, 6/2016).** CEIL: 5 mg/m³, (as Mn) **ACGIH TLV (United States, 3/2016).** TWA: 0.1 mg/m³, (as Mn) 8 hours. Form: Inhalable fraction TWA: 0.02 mg/m³, (as Mn) 8 hours. Form: Respirable fraction
Manganese Oxide	**ACGIH TLV (United States, 3/2016).** TWA: 0.1 mg/m³, (as Mn) 8 hours. Form: Inhalable fraction TWA: 0.02 mg/m³, (as Mn) 8 hours. Form: Respirable fraction **OSHA PEL (United States, 6/2016).** CEIL: 5 mg/m³, (as Mn)
Crystalline Quartz Silica	**OSHA PEL Z3 (United States, 6/2016).** TWA: 250 mppcf / (%SiO2+5) 8 hours. Form: Respirable TWA: 10 mg/m³ / (%SiO2+2) 8 hours. Form: Respirable **OSHA PEL (United States, 6/2016).** TWA: 50 µg/m³ 8 hours. Form: Respirable dust **ACGIH TLV (United States, 3/2016).** TWA: 0.025 mg/m³ 8 hours. Form: Respirable fraction
Manganese	**OSHA PEL (United States, 6/2016).**

ection 8. Exposure controls/personal protection

	CEIL: 5 mg/m³, (as Mn) Form: Fume **ACGIH TLV (United States, 3/2016).** TWA: 0.1 mg/m³, (as Mn) 8 hours. Form: Inhalable fraction TWA: 0.02 mg/m³, (as Mn) 8 hours. Form: Respirable fraction
aluminum Oxide.	**ACGIH TLV (United States, 3/2016).** TWA: 1 mg/m³ 8 hours. Form: Respirable fraction **OSHA PEL (United States, 6/2016).** TWA: 5 mg/m³ 8 hours. Form: Respirable fraction TWA: 15 mg/m³ 8 hours. Form: Total dust
Magnesium oxide	**ACGIH TLV (United States, 3/2016).** TWA: 10 mg/m³ 8 hours. Form: Inhalable fraction **OSHA PEL (United States, 6/2016).** TWA: 15 mg/m³ 8 hours. Form: Total particulates
Calcium Oxide	**ACGIH TLV (United States, 3/2016).** TWA: 2 mg/m³ 8 hours. **OSHA PEL (United States, 6/2016).** TWA: 5 mg/m³ 8 hours.

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.

Appropriate engineering controls : 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

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.

Respiratory protection : The following respirator is recommended if airborne concentrations exceed the appropriate standard/guideline. NIOSH approved, air-purifying particulate respirator with N-95 filters.

Skin protection : Wear suitable protective clothing and gloves. Suitable protective footwear.

Eye/face protection : Protective goggles with side shield or tightly fitting protective goggles

Medical Surveillance : Not available.

Section 9. Physical and chemical properties

Physical state : Solid. [Powder.]

Color : Brown.

Odor : Odorless.

Odor threshold : Not available.

pH : Not available.

Boiling point : Not available.

Melting point : Not available.

ection 9. Physical and chemical properties

Flash point	:	Closed cup: Not applicable.
Evaporation rate	:	Not available.
Explosion limits	:	Not available.
Vapor pressure	:	Not available.
Specific gravity (Relative density)	:	Not available.
Bulk density	:	300 to 1000 kg/m³
Solubility in water	:	Not available.
Partition coefficient: n-octanol/water	:	Not available.
Vapor density	:	Not available.
Viscosity	:	Dynamic: Not applicable.
Auto-ignition temperature	:	Not applicable.
Decomposition temperature	:	Not available.

Section 10. Stability and reactivity

Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	:	The product is stable.
Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	:	No specific data.
Incompatible materials	:	No specific data.
Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on the likely routes of exposure : Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects

Eye contact	:	Causes serious eye irritation.
Inhalation	:	May cause respiratory irritation.
Skin contact	:	Causes skin irritation.
Ingestion	:	Corrosive to the digestive tract. Causes burns. Irritating to mouth, throat and stomach.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	:	Causes irritation with symptoms of reddening, tearing, stinging, and swelling.
Inhalation	:	May cause respiratory tract irritation with symptoms of coughing, sore throat and runny nose.
Skin contact	:	Causes irritation with symptoms of reddening, itching, and swelling.
Ingestion	:	Corrosive with symptoms of coughing, burning, ulceration, and pain. May cause irritation; Symptoms may include abdominal pain, nausea, vomiting, and diarrhea.

Potential chronic health effects

Short term exposure

Potential immediate effects	:	Not available.

Long term exposure

Potential delayed effects	:	Not available.
General	:	May cause damage to organs through prolonged or repeated exposure. Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation. Suspected of causing cancer. Suspected of damaging fertility.

ection 11. Toxicological information

Carcinogenicity : May cause cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : Suspected of damaging fertility.

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure	Test
Manganese Oxide	LD50 Oral	Rat	3478 mg/kg	-	-
Manganese	LD50 Oral	Rat	>5000 mg/kg	-	-
aluminum Oxide.	LD50 Oral	Rat	>5000 mg/kg	-	OECD 401 Acute Oral Toxicity
Magnesium oxide	LD50 Oral	Rat	>5000 mg/kg	-	-
Calcium Oxide	LD50 Oral	Rat - Female	>2000 mg/kg	-	OECD 425 Acute Oral Toxicity: Up-and-Down Procedure
Calcium Oxide	LD50 Dermal	Rabbit - Female	>2500 mg/kg	-	402 Acute Dermal Toxicity *

Conclusion/Summary : Calcium Oxide:* Dosage caused no mortality

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation	Reversibility
Calcium Oxide	Eyes - Cornea opacity	Rabbit	4	1 hours	-	Not reversible
	Eyes - Redness of the conjunctivae	Rabbit	2	1 hours	-	Not reversible
	Skin - Edema	Rabbit	0 to 1	4 hours	14 days	Not reversible
	Skin - Erythema/Eschar	Rabbit	2	4 hours	14 days	Not reversible

Conclusion/Summary

Skin : aluminum Oxide.:Non-irritating (Rabbit) ; OECD 404 Acute Dermal Irritation/Corrosion
Magnesium oxide:Slight irritant
Calcium Oxide:Irritant

Eyes : aluminum Oxide.:Non-irritating (Rabbit) ; OECD 405 Acute Eye Irritation/Corrosion
Magnesium oxide:Slight irritant
Calcium Oxide:Causes serious eye damage.

Respiratory : Calcium Oxide:Irritant

Sensitization

Product/ingredient name	Route of exposure	Species	Result
aluminum Oxide.	skin	Guinea pig	Not sensitizing

Chronic toxicity

ection 11. Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
Manganese Oxide	Sub-acute LCLo Inhalation Dusts and mists	Rat	68 mg/m³	10 days; 6 hours per day
	Chronic NOAEL Inhalation Vapor	Mammal - species unspecified	1 mg/m³	9 months
Magnesium oxide	Chronic NOAEL Inhalation Vapor	Rat	<1120 µg/m³	29 days

Mutagenicity

Product/ingredient name	Test	Experiment	Result
Crystalline Quartz Silica	Sister chromatid exchange assay	Experiment: In vivo Subject: Mammalian-Animal Cell: Somatic	Negative
aluminum Oxide.	Ames test Salmonella typhimurium	Experiment: In vitro Subject: Bacteria	Negative
Calcium Oxide	OECD 471 Bacterial Reverse Mutation Test	Experiment: In vitro Subject: Bacteria Metabolic activation: +/-	Negative

Conclusion/Summary : Crystalline Quartz Silica:No mutagenic effect.

Carcinogenicity

Product/ingredient name	CAS #	IARC	NTP	OSHA
Umber	12713-03-0	Not classified.	Not classified.	Not classified.
Manganese Oxide	1313-13-9	Not classified.	Not classified.	Not classified.
Crystalline Quartz Silica	14808-60-7	1 Carcinogenic to humans	Proven.	Not classified.
Manganese	7439-96-5	Not classified.	Not classified.	Not classified.
aluminum Oxide.	1344-28-1	Not classified.	Not classified.	Not classified.
Magnesium oxide	1309-48-4	Not classified.	Not classified.	Not classified.
Calcium Oxide	1305-78-8	Not classified.	Not classified.	Not classified.

Reproductive toxicity

Product/ingredient name	Effects	Species	Dose	Exposure
aluminum Oxide.	No evidence of risk to humans.	Rat	Inhalation	2 years
Calcium Oxide	-	Mouse	Oral: 440 mg/kg NOAEL	10 days

Teratogenicity

Product/ingredient name	Result	Species	Dose	Exposure
Calcium Oxide	Negative - Oral	Rat	680 mg/kg NOAEL	-

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Manganese Oxide	Category 3	Not applicable.	Respiratory tract irritation
Crystalline Quartz Silica	Category 3	Not applicable.	Respiratory tract irritation
aluminum Oxide.	Category 3	Not applicable.	Respiratory tract irritation
Magnesium oxide	Category 3	Not applicable.	Respiratory tract irritation
Calcium Oxide	Category 3	Not applicable.	Respiratory tract irritation

ection 11. Toxicological information

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Umber	Category 2	Not determined	central nervous system (CNS)
Manganese Oxide	Category 2	Not determined	central nervous system (CNS)
Manganese	Category 2	Not determined	central nervous system (CNS)
aluminum Oxide.	Category 2	Inhalation	lungs

Acute toxicity estimates

Route	ATE value (Acute Toxicity Estimates)
Oral	10595.4 mg/kg

Section 12. Ecological information

Toxicity

Product/ingredient name	Test	Result	Species	Exposure
Manganese Oxide	OECD 201 Alga, Growth Inhibition Test	Acute EC50 >0.07 mg/l Highest producible concentration. Fresh water	Algae	72 hours
	OECD 202 *Daphnia* sp. Acute Immobilization Test	Acute EC50 >0.0735 mg/l Highest producible concentration. Fresh water	Daphnia - Daphnia magna	48 hours
	OECD 209 Activated Sludge, Respiration Inhibition Test	Acute EC50 >1000 mg/l Fresh water	Micro-organism - adapted and activated sludge micro-organism	3 hours
	OECD 203 Fish, Acute Toxicity Test	Acute LC50 >0.05 mg/l Highest producible concentration. Fresh water	Fish - Oncorhynchus mykiss	96 hours
	OECD 211 *Daphnia Magna* Reproduction Test	Chronic NOEC 0.00735 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	8 days
Manganese	-	Acute LC50 >1000 mg/l	Fish - Leuciscus idus	48 hours
aluminum Oxide.	OECD 201 Alga, Growth Inhibition Test	Acute EC50 >100 mg/l	Algae - Selenastrum capricornutum	72 hours
	OECD 202 *Daphnia* sp. Acute Immobilization Test	Acute EC50 >100 mg/l	Daphnia - Daphnia magna	48 hours
	OECD 203 Fish, Acute Toxicity Test	Acute LC50 >100 mg/l	Fish - Salmo trutta	96 hours
Calcium Oxide	OECD 201 Freshwater Alga and Cyanobacteria, Growth Inhibition Test*	Acute EC50 184.57 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
	OECD 202 *Daphnia* sp. Acute Immobilization Test *	Acute EC50 49.1 mg/l	Daphnia - Daphnia magna	48 hours
	OECD 209 Activated Sludge, Respiration Inhibition Test*	Acute IC10 300.4 mg/l	Bacteria	3 hours
	OECD 203 Fish,	Acute LC50 50.6 mg/l Fresh	Fish -	96 hours

Section 12. Ecological information

	Acute Toxicity Test * OECD 201 Freshwater Alga and Cyanobacteria, Growth Inhibition Test*	water Chronic IC10 79.22 mg/l	Oncorhynchus mykiss Algae - Pseudokirchneriella subcapitata	72 hours

Conclusion/Summary : Not available.

Persistence and degradability

Conclusion/Summary : Not available.

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (K_{OC}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Waste disposal should be in accordance with existing federal state, provincial and or local environmental controls laws.

RCRA classification : : If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	-	-	-	-		Not regulated.
IMDG Class	-	-	-	-		Not regulated.
IATA-DGR Class	-	-	-	-		Not regulated.

PG* : Packing group

RQ : 2591 lbs

Section 15. Regulatory information

SARA 311/312 : Immediate (acute) health hazard
Delayed (chronic) health hazard

SARA Title III Section 302 Extremely Hazardous Substances : None

Ingredient name	CAS number	Concentration (%)

Section 15. Regulatory information

SARA Title III Section 313 Toxic Chemicals :

Umber	12713-03-0	25 - 50
Manganese Oxide	1313-13-9	10 - ≤25
Manganese	7439-96-5	≤10

US EPA CERCLA Hazardous Subtances (40 CFR 302.4) :

Ingredient name	CAS number	RQ
Manganese Oxide	1313-13-9	Included in the regulation but with no data values. See regulation for further details.
Umber	12713-03-0	Included in the regulation but with no data values. See regulation for further details.

State regulations

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections on the SDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropraite agency in your state.

Ingredient name	CAS number	State Code	Concentration (%)
Crystalline Quartz Silica	14808-60-7	MA - S, NJ - HS, PA - RTK HS	12 - 18%
Manganese	7439-96-5	MA - S, NJ - HS, PA - RTK HS	5 - 10%
Aluminum Oxide	1344-28-1	MA - S, NJ - HS, PA - RTK HS	3 - 5%
Magnesium oxide	1309-48-4	MA - S, NJ - HS, PA - RTK HS	1 - 3%
Calcium Oxide	1305-78-8	MA - S, NJ - HS, PA - RTK HS	1 - 3%
Umber	12713-03-0	PA - RTK HS	39 - 45%
Manganese Oxide	1313-13-9	PA - RTK HS	12 - 18%
Water	7732-18-5		5 - 10%

Massachusetts Substances: MA - S
Massachusetts Extraordinary Hazardous Substances: MA - Extra HS
New Jersey Hazardous Substances: NJ - HS
Pennsylvania RTK Hazardous Substances: PA - RTK HS
Pennsylvania Special Hazardous Substances: PA - Special HS

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer.
WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Ingredient name	CAS #	Concentration (%)	Cancer	Reproductive
Crystalline Quartz Silica	14808-60-7	10 - ≤25	Yes	
Arsenic	7440-38-2	<0.1	Yes	
lead	7439-92-1	<0.1	Yes	Yes
Cadmium	7440-43-9	<0.1	Yes	Yes

U.S. Toxic Substances Control Act : Listed on the TSCA Inventory. This material is included in the TSCA Inventory as a naturally occuring chemical substance as described in 40 CFR 710.4 (b).

Section 16. Other information

Hazardous Material Information System :

Health	*	2
Flammability		1
Physical hazards		0

0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme
*=Chronic

The customer is responsible for determining the PPE code for this material. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

National Fire Protection Association (U.S.A.) :

0= Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

Our method of hazard communication is comprised of Product Labels and Safety Data Sheets. HMIS and NFPA ratings are provided as a customer service.

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Version : 3.01
Product Safety and Regulatory Affairs

Indicates information that has changed from previously issued version.

Notice to reader

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Gold Ochre

SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 2015/830)

SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name : PIGMENTS GENERALE

Product code : N133001. 02..

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.3. Details of the supplier of the safety data sheet

Registered company name : Max Sauer SAS.

Address : 2 rue Lamarck CS30204.22000.Saint Brieuc.France.

Telephone : 0033(0)296682000. Fax : 0033(0)296770065.

mail@raphael.fr

1.4. Emergency telephone number : +33 (0)1 45 42 59 59.

Association/Organisation : INRS / ORFILA http://www.centres-antipoison.net.

SECTION 2 : HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments.

This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

2.2. Label elements

In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard statements :

2.3. Other hazards

In use, may form flammable/explosive dust-air mixture.

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) >= 0.1% published by the European CHemicals Agency (ECHA) under article 57 of REACH: http://echa.europa.eu/fr/candidate-list-table

The mixture satisfies neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

No substances fulfil the criteria set forth in annexe II section A of the REACH regulation (EC) n° 1907/2006.

SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

4.1. Description of first aid measures

In the event of splashes or contact with eyes :

Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.

If there is any redness, pain or visual impairment, consult an ophthalmologist.

In the event of splashes or contact with skin :

Watch out for any remaining product between skin and clothing, watches, shoes, etc.

In the event of swallowing :

Seek medical attention, showing the label.

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

No data available.

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

No data available.

SECTION 5 : FIREFIGHTING MEASURES

Non-flammable.

5.1. Extinguishing media

5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)
- carbon dioxide (CO2)

5.3. Advice for firefighters

No data available.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

Prevent any material from entering drains or waterways.

6.3. Methods and material for containment and cleaning up

Retrieve the product by mechanical means (sweeping/vacuuming) : do not generate dust.

6.4. Reference to other sections

No data available.

SECTION 7 : HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

Anyone suffering from respiratory problems or allergies must not handle or be exposed to powdered paints

7.1. Precautions for safe handling

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

Fire prevention :

Precautions must be taken to prevent any dust formation at a concentration higher than ignition or explosion concentration or the occupational exposure limits.

Use the mixture in premises free of naked flames or other sources of ignition and ensure that electrical equipment is suitably protected.

Keep packages tightly closed and away from sources of heat, sparks and naked flames.

Prevent access by unauthorised personnel.

Recommended equipment and procedures :

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Packages which have been opened must be reclosed carefully and stored in an upright position.

Prohibited equipment and procedures :

No smoking, eating or drinking in areas where the mixture is used.

7.2. Conditions for safe storage, including any incompatibilities

No data available.

Storage

Keep out of reach of children.

Keep well away from all sources of ignition, heat and direct sunlight.

Packaging

Always keep in packaging made of an identical material to the original.

7.3. Specific end use(s)

No data available.

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

No data available.

8.2. Exposure controls

Personal protection measures, such as personal protective equipment

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :

Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

- Eye / face protection

Avoid contact with eyes.

Before handling powders or dust emission, wear mask goggles in accordance with standard EN166.

- Hand protection

Wear suitable protective gloves in the event of prolonged or repeated skin contact.

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Recommended properties :

- Impervious gloves in accordance with standard EN374

- Body protection

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

- Respiratory protection

Avoid breathing dust.

Type of FFP mask :

Wear a disposable half-mask dust filter in accordance with standard EN149.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

General information :

Physical state :	Powder or dust.

Important health, safety and environmental information

pH :	Not stated. Neutral.
Boiling point/boiling range :	Not specified.
Flash point interval :	Not relevant.
Vapour pressure (50°C) :	Not relevant.
Density :	> 1

Water solubility :	Insoluble.
Melting point/melting range :	Not specified.
Self-ignition temperature :	Not specified.
Decomposition point/decomposition range :	Not specified.

9.2. Other information

No data available.

SECTION 10 : STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions

When exposed to high temperatures, the mixture can release hazardous decomposition products, such as carbon monoxide and dioxide, fumes and nitrogen oxide.

10.4. Conditions to avoid

Avoid :

- formation of dusts

Dusts can form an explosive mixture with air.

10.5. Incompatible materials

10.6. Hazardous decomposition products

The thermal decomposition may release/form :

- carbon monoxide (CO)
- carbon dioxide (CO2)

SECTION 11 : TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Powdered paints may cause local skin irritation, in folds in the skin or on contact with tight clothing (too tight fitting)

11.1.1. Substances

No toxicological data available for the substances.

11.1.2. Mixture

No toxicological data available for the mixture.

SECTION 12 : ECOLOGICAL INFORMATION

12.1. Toxicity

12.1.2. Mixtures

No aquatic toxicity data available for the mixture.

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

No data available.

SECTION 13 : DISPOSAL CONSIDERATIONS

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods

Do not pour into drains or waterways.

Waste :

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging :

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

SECTION 14 : TRANSPORT INFORMATION

Exempt from transport classification and labelling.

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2015 - IMDG 2014 - ICAO/IATA 2015).

SECTION 15 : REGULATORY INFORMATION

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

- Classification and labelling information included in section 2:

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 487/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 758/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 944/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 605/2014.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 1297/2014.

- Container information:

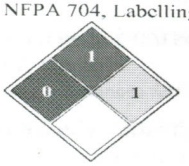
No data available.

- Particular provisions :

No data available.

- Standardised American system for the identification of hazards presented by the product in view of emergency procedures (NFPA 704) :

NFPA 704. Labelling: Health=0 Inflammability=1 Instability/Reactivity=1 Specific Risk=none



15.2. Chemical safety assessment

No data available.

SECTION 16 : OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

Abbreviations :

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

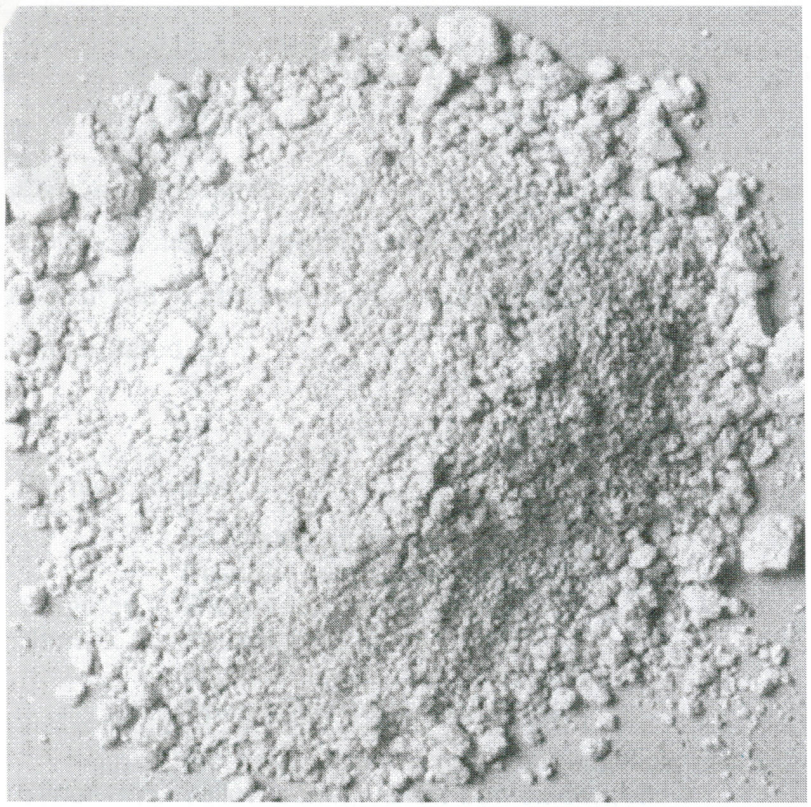
ICAO : International Civil Aviation Organisation

RID : Regulations concerning the International carriage of Dangerous goods by rail.

PBT: Persistent, bioaccumulable and toxic.

vPvB : Very persistent, very bioaccumulable.

SVHC : Substances of very high concern.



Pigment: French Yellow Ocher Light (Jaune Claire)

Pigment Information	
Color:	Yellow
Colour Index:	Pigment Yellow 43 (77492)
Chemical Name:	Iron Oxide Hydroxide
Chemical Formula:	α-FeOOH
ASTM Lightfastness Rating	
Acrylic:	I
Oil:	I
Watercolor:	I
Properties	
Density:	2.9–4.3
Hardness:	4.0–5.5
Refractive Index:	2.260–2.398

DESCRIPTION SAFETY ADDITIONAL TAGS

Our French ocher is from the ocher deposits in the French quarries of Gargas and Rustrel nestled in a 12 mile long enclave in the heart of the Luberon Massif, the ocher country. Ocher is a symphony of colors ranging from pale yellow through the orange range to an intense red. It has two major characteristics: it never fades in daylight and the color is highly concentrated.

Pigment Names	
Common Names:	**English:** yellow ocher light **French:** ocre jaune clair **German:** Ocker klar gelb **Italian:** ocra giallo chiaro **Russian:** охра светлая желтая **Spanish:** ocre amarillo claro
Synonyms:	Goethite, limonite, raw sienna, yellow earth, yellow ocher, yellow iron oxide, yellow hydrated oxide and iron hydroxide pigment
Alternate Name:	Mars yellow is the name given to the synthetic form of yellow iron oxide hydroxide.

Origin and History

Known since the antiquity, ocher (*okhra*, Greek) occurs naturally as yellow ocher (limonite) or as red ocher (hematite). Ocher has been used as a pigment since prehistoric times and is perhaps the most widely used pigment for artists paints.

Source

Yellow ocher is a natural earth containing clay tinted by hydrous forms of iron oxide, such as goethite, and traces of gypsum or manganese carbonate. Historically, yellow ocher was designated by the mineral name limonite. Limonite, however, is not a true mineral, but a general term used to describe all forms of hydrated iron oxide minerals (α-FeOOH) that occur as natural earth. Limonite includes the minerals goethite, akaganeite and lepidocrocite. To be considered an ocher, the content of iron oxide must not be less than 12% with varying amounts of kaolin and quartz. Depending upon the content of hydrated iron oxide, the color of ocher varies from light yellow to golden. Like red iron oxides (hematite), they are found around the world and have been used as pigments since prehistory. French ocher, historically one of the best grades of ocher, contains about 20% iron oxide and is high in silica.

Ocher grades into sienna, a yellow-brown pigment containing a higher percentage of iron ore than ocher as well as some manganese dioxide. Sienna grades into umber, which is darker brown and

contains a higher percentage of manganese dioxide. Burnt sienna is brown or bright red, burnt umber is a darker brown than umber.

Ocher is not naturally usable as a pigment and therefore needs to undergo several important processes, such as:

Extract ore from the quarries.

Separate ocher from sand using water and centripetal force.

Blend different ocher extracted from diverse veins to obtain the selected colors.

Grind to 50 microns and pack.

Permanence and Compatibility

Ocher is among the most permanent colors among the artist's palette. It is compatible with all other pigments, and can be used with good results in all mediums.

Oil Absorption and Grinding

Ocher absorbs a moderately high amount of oil. The oil absorption ratio is 30–35 parts by weight of linseed oil to 100 parts by weight of pigment. If the measurement were grams, this pigment would require 30-35 grams of pigment to grind 100 grams of linseed oil to form a stiff paste. It slows the drying of oil paint, but forms a good film.

Toxicity

Ocher is not considered toxic, but care should be used in handling the dry powder pigment to avoid inhaling the dust.

Colorer votre vie au naturel

FICHE DE DONNEES DE SECURITE Conforme au règlement (CE) n°1907/2006 (REACH),n°2015/830

SAFETY DATA SHEET

Rubrique 1 :IDENTIFICATION OF THE SUBSTANCE, THE PREPARATION AND THE COMPANY

1.1 Identification of the substance

LIGHT YELLOW OCHER

1.2Relevant identified uses of the substance or mixture and uses advised against

Coloring material for building materials and use of creative hobbies

1.3Manufacturer information

STE DES OCRES DE France
Impasse des Ocriers
84400 – APT – France
www.ocresdefrance.fr

1.3 emergency number

www.centres-antipoison.net 01 40 05 48 48 (centre anti-poison)

Rubrique 2 : IDENTIFICATION OF RISKS

2.1 classification of the substance or mixture in accordance with Regulation (EC) No 1272/2008 and its adjustments.

This substance is not classified as dangerous according to Directive 67/548 / EEC and its amendments.
For more details on health consequences and symptoms, see section 11.

2.2 labeling elements in accordance with Regulation (EC) No 1272/2008 and its adaptations.

No labeling element is required

2.3 Another dangers

The substance does not meet the criteria for PBT or vPvB substances according to Annex XIII of REACH Regulation (CE) No 1907/2006

Rubrique 3: COMPOSITION / INFORMATION ON COMPONENTS

CI : Y 43
Composition : SiO_2 +Al_2O_3+Fe_2O_3
Substance/ préparation : substance
Numéros cas : no
Numéros einecs : no
To the present knowledge of the supplier, this product does not contain any ingredients that are hazardous to require a statement in this section, in accordance with EU regulations or national regulations.
REACH: the substance is not subject to REACH according to Annex V

Rubrique 4: FIRST AID

Transport the person to the fresh air. In case of fainting, place the person in a lateral safety position.
Immediately flush eyes with plenty of water, occasionally lifting the eyelids. Check if the victim wears contact lenses and in this case remove them.
If irritation occurs, consult a doctor.

Rubrique 5: FIRE FIGHTING MEASURES

The substance is not flammable. In case of fire, spray with water (in fog), foam, dry chemical or carbon dioxide.

Rubrique 6: MEASURES TO BE TAKEN IN CASE OF ACCIDENTAL RELEASE

Provide adequate ventilation. Put on appropriate personal protective equipment.
Avoid dispersal and spillage of the spilled product and contact with soil, surrounding aquatic environment, sewers or drains.

Rubrique 7: HANDLING AND STORAGE

No special measures required

Rubrique 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Wash hands, forearms and face after handling product.
Recommended: dust mask
Avoid contact with eyes. Use eye protection in accordance with an approved standard
Personal protective equipment for the body should be selected according to the task to be performed and the risks involved.

Rubrique 9: PHYSICAL AND CHEMICAL PROPERTIES

general informations
Physical state: powder
Color : yellow
Odor: odorless
Important health, safety and environmental information
PH: 7
Melting point: not available
Bulk density: 445 g / l
Solubility: insoluble

Rubrique 10: STABILITY AND REACTIVITY

The product is stable
Under normal conditions of storage and use, no hazardous decomposition products should appear.

Rubrique 11: TOXICOLOGICAL INFORMATION

Any effects of chronic toxicity or sensitization are virtually excluded by
that ochre is a natural mineral of the earth's surface and, in the dissolved state,
a natural constituent of water in nature.

Rubrique 12: ECOLOGICAL INFORMATION

ochre is, in the solid state, a mineral, natural constituent of the earth. In the dissolved state, the substance is a natural constituent of water in nature. Therefore, adverse effects on the environment can be excluded. ochre can not be biodegraded

Rubrique 13: CONSIDERATIONS RELATING TO ELIMINATION

In general: Check the suitability of the product for reuse. Uncleaned waste and uncleaned packaging must be packed or closed, labeled and disposed of at a destruction or recycling center in accordance with the national legislation in force. Consult the manufacturer in case of large quantities. If uncleaned empty containers are forwarded, inform the consignee of the possible risks due to the residues of the product. For disposal within the EU, use the waste code in force according to the European Waste List (LED). All waste producers are required, among other things, to classify their waste according to the category and process code of the European Waste List (LED).

To the present knowledge of the supplier, this product is not considered a hazardous waste as defined by EU Directive 91/689 / EEC

Rubrique 14: TRANSPORT

This product is not subject to labeling. No special conditions

Rubrique 15: REGULATORY INFORMATION

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

- Classification and labeling information in section 2:
The following regulations have been taken into account:
- Règlement (CE) n° 1272/2008 modifié par le règlement (UE) n° 487/2013
- Règlement (CE) n° 1272/2008 modifié par le règlement (UE) n° 758/2013
- Règlement (CE) n° 1272/2008 modifié par le règlement (UE) n° 944/2013
- Règlement (CE) n° 1272/2008 modifié par le règlement (UE) n° 605/2014
- Règlement (CE) n° 1272/2008 modifié par le règlement (UE) n° 1297/2014
- Information about the packaging:
No data available.
- Particular dispositions :
No data available.

15.2. Chemical safety assessment

No data available.

Rubrique 16: ANOTHER INFORMATIONS

Abréviations :

ADR : Accord européen relatif au transport international de marchandises Dangereuses par la Route.
IMDG : International Maritime Dangerous Goods.
IATA : International Air Transport Association.
OACI : Organisation de l'Aviation Civile Internationale.
RID : Regulations concerning the International carriage of Dangerous goods by rail.
WGK : Wassergefahrdungsklasse (Water Hazard Class).
PBT : Persistante, bioaccumulable et toxique.
vPvB : Très persistante et très bioaccumulable.
SVHC : Substance of Very High Concern

Historical
Date of publication: April 2018
Date of the previous edition: October 2015

L. CORNELISSEN & SON

Artists' Colourmen

Suppliers of Materials for Painters, Gilders & Printmakers

Safety Data Sheet according to Regulation (EC) No. 1907/2006

Revision Date: August 2016

1) Identification of the substance/preparation and the company

Trade Name: Cornelissen General Pigments (excludes pigments with cobalt, chrome, lead, etc.) Includes: Indian Yellow – Tartrazine, Alizarin Violet, Manganese Violet, Ultramarine Violet, Ultramarine Pink, Alizarin Crimson, Coral Red, Quinacridone Magenta, Quinacridone Red, Quinacridone Scarlet, Rose Madder, Vermillion Imitation, Red Bole (Iron Oxide), Antwerp Blue, Azure Blue, Egyptian Blue, Indigo Blue - Genuine, Indigo Blue - Synthetic, Lapis Lazuli (Light and Dark) - Genuine, Oriental Blue, Phthalo Mona Blue, Prussian Blue, Smalt Light, Ultramarine Blue Dark, Ultramarine Blue Light, Ultramarine Blue Limewash, Universal Blue, Chromium Oxide, Phthalo Green, Phthalo Turquoise, Viridian Green, Titanium White, Graphite (200 mesh), Carbon Black, Ivory Black, Lamp Black, Mars Black, Spinel Black, Vine Black.

Application: Artists' Pigment

Manufacturer/Supplier:

L Cornelissen & Son Ltd
105 Great Russell Street
London WC1B 3RY

Tel: 020 7636 1045
Fax: 020 7636 3655

www.cornelissen.com

2) Composition/Information on ingredients

General Non-Harmful Pigments.

Indian Yellow – Tartrazine Monoazo	PY100	CAS No: 12225-21-7
Alizarin Violet	PV51	
Pigment Violet 5:1	20-35%	CAS No: 1328-04-7
Alumina	60-70%	CAS No: 1344-28-1
Barium Sulphate	<10%	CAS No: 7727-43-7
Surfactant(s)	<10%	
Manganese Violet Manganese Ammonium Pyro Phosphate	PV16	CAS No: 10101-66-3

Ultramarine Blue Light	PB29	
Sodium Alumino Sulphosilicate		CAS No: 57455-37-5
Silicic Acid Aluminium Sodium Salt Sulphurised		CAS No: 101357-30-6
Ultramarine Blue Limewash	PB29	
Sodium Alumino Sulphosilicate		CAS No: 57455-37-5
Silicic Acid Aluminium Sodium Salt Sulphurised		CAS No: 101357-30-6
Universal Blue	PB29	
Sodium Alumino Sulphosilicate		CAS No: 57455-37-5
Silicic Acid Aluminium Sodium Salt Sulphurised		CAS No: 101357-30-6
Chromium Oxide Green	PG17	CAS No: 1308-38-9
Chromium(III)Oxide		
Phthalo (Mona) Green	PG7	CAS No: 1328-53-6
Phthalocyanine		
Phthalo Turquoise	PB15:3+PG7+PW21	
Phthalocyanine	25-50%	CAS No: 147-14-8
Phthalocyanine	10-25%	CAS No: 1328-53-6
Barium Sulphate	25-50%	CAS No: 7727-43-7
Viridian Green	PG18	
Chromic Oxide Dihydrate	92-95%	CAS No: 12001-99-9
Boron Oxide	<3.1%	CAS No: 1303-86-2
Titanium White	PW6	CAS No: 1317-80-2
Titanium Dioxide		
Graphite (200 mesh)	PBk10	CAS No: 7782-42-5
Crystallised Carbon		
Carbon Black Mogul L	PBk7	CAS No: 1333-86-4
Carbon Black		
Ivory Black	PBk9	
Calcium Phosphate	>70-90%	CAS No: 7790-076-3
Carbon	10-30%	CAS No: 1333-086-4
Calcium Carbonate	1-10%	CAS No: 1317-65-3
Lamp Black	PBk6	CAS No: 1333-86-4
Carbon		
Mars Black	PBk11	CAS No: 1317-61-9
triiron tetraoxide		
Spinel Black	PBk26	CAS No: 68186-94-7
Manganese Ferrite Black		
Vine Black	PBk8	
Fe2O3	70-80%	CAS No: 1309-38-2
SiO2	3-4%	CAS No: 763-86-9
CaO	1-3%	CAS No: 1305-78-8
MgO	0.1%	CAS No: 1309-48-4
Al2O3	0.2-1%	CAS No: 1344-28-1
FeO	0.3%	

Ultramarine Blue Light	PB29	
Sodium Alumino Sulphosilicate		CAS No: 57455-37-5
Silicic Acid Aluminium Sodium Salt Sulphurised		CAS No: 101357-30-6
Ultramarine Blue Limewash	PB29	
Sodium Alumino Sulphosilicate		CAS No: 57455-37-5
Silicic Acid Aluminium Sodium Salt Sulphurised		CAS No: 101357-30-6
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Chromium(III)Oxide		
Phthalo (Mona) Green	PG7	CAS No: 1328-53-6
Phthalocyanine		
Phthalo Turquoise	PB15:3+PG7+PW21	
Phthalocyanine	25-50%	CAS No: 147-14-8
Phthalocyanine	10-25%	CAS No: 1328-53-6
Barium Sulphate	25-50%	CAS No: 7727-43-7
Viridian Green	PG18	
Chromic Oxide Dihydrate	92-95%	CAS No: 12001-99-9
Boron Oxide	<3.1%	CAS No: 1303-86-2
Titanium White	PW6	CAS No: 1317-80-2
Titanium Dioxide		
Graphite (200 mesh)	PBk10	CAS No: 7782-42-5
Crystallised Carbon		
Carbon Black Mogul L	PBk7	CAS No: 1333-86-4
Carbon Black		
Ivory Black	PBk9	
Calcium Phosphate	>70-90%	CAS No: 7790-076-3
Carbon	10-30%	CAS No: 1333-086-4
Calcium Carbonate	1-10%	CAS No: 1317-65-3
Lamp Black	PBk6	CAS No: 1333-86-4
Carbon		
Mars Black	PBk11	CAS No: 1317-61-9
triiron tetraoxide		
Spinel Black	PBk26	CAS No: 68186-94-7
Manganese Ferrite Black		
Vine Black	PBk8	
Fe2O3	70-80%	CAS No: 1309-38-2
SiO2	3-4%	CAS No: 763-86-9
CaO	1-3%	CAS No: 1305-78-8
MgO	0.1%	CAS No: 1309-48-4
Al2O3	0.2-1%	CAS No: 1344-28-1
FeO	0.3%	

3) Hazards Identification

Classification of the substance or mixture

Classification under CLP:	This product has no classification under CLP.
Label elements:	This product has no label elements.
Other hazards:	This substance is not identified as a PBT substance.

4) First Aid Measures

Description of first aid measures

Eye contact:	Flush eye with flowing water. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Skin contact:	Wash contaminated skin with soap & water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed.
Ingestion:	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. In each case if symptoms develop seek medical attention.

Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact:	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.
Inhalation:	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Skin contact:	No known significant effects or critical hazards.
Ingestion:	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact:	Adverse symptoms may include the following: irritation redness

Inhalation:	Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact:	No specific data.
Ingestion:	No specific data.

Indication of any immediate medical attention and special treatment needed

Notes to physician:	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments:	No specific treatment

5) Fire Fighting Measures

Extinguishing media

Suitable extinguishing media:	No restriction in fire situations. Suitable extinguishing media for the surrounding fire should be used. Avoid use of a solid water stream or jet as it may scatter and spread fire.
Unsuitable extinguishing media:	Water jet.

Special hazards arising from the substance or mixture

Hazards from the substance or mixture:	Fine dust clouds may form explosive mixtures with air.
Hazardous thermal decomposition products:	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds smoke oxides of nitrogen

Advice for firefighters

Special protective actions for fire-fighters:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Put on appropriate personal protective equipment.
For emergency responders:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in 'For non-emergency personnel'.

Environmental precautions

Avoid dispersal of spilled 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).

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, labelled waste container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.
Large spill:	Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. Avoid creating dusty conditions and prevent wind dispersal. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.

7) Handling and Storage

Precautions for safe handling

Protective measures:	Put on appropriate personal protective equipment (see Section 8). Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material.
Advice on general occupational hygiene:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well ventilated area, away from incompatible materials (see section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

Specific end use(s)

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

8) Exposure/Personal Protection

Control parameters

Occupational exposure limits

General Pigments:	No exposure limit value known. Observe OEL limits for inhalable and respirable nuisance dust.
Mars Black:	EH40/2005 WELs (United Kingdom (UK), 12/2011). STEL: 10 mg/m³, (as Fe) 15 minutes. Form: Fume TWA: 5 mg/m³, (as Fe) 8 hours. Form: Fume DNEL : Dust Inhalable 10 mg/m³ , Respirable dust 3 mg/m³

Exposure controls

Appropriate engineering controls:	Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour 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. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Individual protection measures

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.
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:

Hand protection:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Body 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.
Other skin protection:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection:	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Environmental exposure controls:	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

Appearance: Powder

Odour: None

Boiling point: N/A

Melting point:

General Products:	>1000°C
Coral Red:	>300 °C
Lapis Lazuli	>350°C
Manganese Violet	>400 °C
Prussian Blue	>140°C
Phthalos x 2	>200 °C
Quinacridone Red	>180 °C
Phthalo Green	>220 °C
Mars Black	>80 °C

Auto ignition temperature:

Decomposition temperature:

Flash point: N/A.

Ph: 4-11

Solubility: Insoluble in water.

Flammability: N/A.

Extinguishing media: No restriction

10) Stability and Reactivity

Reactivity: No specific test data related to reactivity available for this product or its ingredients.

Chemical stability: The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.

Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid: Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Prevent dust accumulation.

Incompatible materials: Reactive or incompatible with the following materials: oxidizing materials

Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced except:

Manganese Violet: Ammonium salts given off during combustion/decomposition.

Alizarin Crimson, Quinacridones x 3, Phthalo Mona Blue, Phthalo Mona Green: Hydrogen chloride (HCL), Oxides of carbon, copper and nitrogen given off during combustion/decomposition.

Coral Red - substances to avoid: strong oxidizing agents, strong bases, strong acids.

Prussian Blue: ammonia, hydrogen cyanide, dicyanogen and nitrous oxides given off during combustion/decomposition.

Ultramarine Products: React with acids releasing hydrogen sulphide gas.

Viridian Green: A small amount (<0.1%as Cr) of reversion to hexavalent chromium may occur if the dry chromium (III) oxide powder is exposed to elevated temperatures.

Carbon Black, Lamp Black: May react exothermically upon contact with strong oxidizers.

Ivory Black: In combustion emits toxic fumes of carbon dioxide/carbon monoxide.

Mars Black: At temperatures above 80 °C the product may become unstable and oxidise. This generates additional heat which, under unfavourable conditions, may result in the combustion of flammable materials. The product should therefore not be stored near heat sources.

11) Toxicological Information

Information on toxicological effects

Acute toxicity	Conclusion/Summary:	Not available.
Irritation/Corrosion	Conclusion/Summary:	Not available.
Sensitization	Conclusion/Summary:	Not available.
Mutagenicity	Conclusion/Summary:	Not available.
Carcinogenicity	Conclusion/Summary:	Not available.
Reproductive toxicity	Conclusion/Summary:	Not available.
Teratogenicity	Conclusion/Summary:	Not available.
Specific target organ toxicity (single exposure)		Not available.
Specific target organ toxicity (repeated exposure)		Not available.
Aspiration hazard		Not available.
Information on the likely routes of exposure		Not available.

Potential acute health effects

Eye contact:	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.
Inhalation:	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Skin contact:	No known significant effects or critical hazards.
Ingestion:	No known significant effects or critical hazards

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact:	Adverse symptoms may include the following: Irritation redness
Inhalation:	Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact:	No specific data.
Ingestion:	May cause discomfort if swallowed.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure
Potential immediate effects: Not available.
Potential delayed effects: Not available.

Long term exposure
Potential immediate effects: Not available.
Potential delayed effects: Not available.

Potential chronic health effects:	Not available.
Conclusion/Summary:	Not available.
General:	Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.
Carcinogenicity:	No known significant effects or critical hazards.
Mutagenicity:	General Pigments: No known significant effects or critical hazards. Mars Black: Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.
Teratogenicity:	No known significant effects or critical hazards.
Developmental effects:	No known significant effects or critical hazards.
Fertility effects:	No known significant effects or critical hazards.
Other information:	Not available.

Oral Toxicity:

General Products	LD50 (rat)>10g/Kg
Indian Yellow – Tartrazine	LD50 (rat)>2g/Kg
Alizarin Violet	LD50 (rat)>5g/Kg
Manganese Violet	LD50 (rat)>12.9g/Kg
Alizarin Crimson	LD50 (rat)>2g/Kg
Coral Red	LD50 (rat)>5g/Kg
Quinacridones x 3	LD50 (rat)>2g/Kg
Azure Blue	LD50 (rat)>5g/Kg
Indigo Blue – Genuine	LD50 (rat)>1.2g/Kg
Indigo Blue – Synthetic	LD50 (rat)>5g/Kg
Phthalo Mona Blue	LD50 (rat)>2g/Kg
Prussian	LD50 (rat)>5.1g/Kg
Phthalo (Mona) Green	LD50 (rat)>5g/Kg
Phthalo Turquoise	LD50 (rat)>2g/Kg
Viridian Green	LD50 (rat)>5g/Kg
Carbon Black, Lamp Black	LD50 (rat)>8g/Kg
Mars Black	LD50 (rat)>5g/Kg
Spinel Black	LD50 (rat)>2.2g/Kg
Barium Sulphate	LD50 (rat)>2g/Kg

12) Ecological Information

Toxicity

Conclusion/Summary: Not available.

Persistence and degradability

Conclusion/Summary: Not available.

Bioaccumulative potential

General Products: Not available.

	$LogP_{ow}$	**BCF**	**Potential**
Quinacridone Scarlet	1.56	-	low

Mobility in soil

Soil/water partition coefficient (Koc): Not available
Mobility: Not available

Results of PBT and vPvB assessment

PBT: Not available.
P: Not available. B: Not available. T: Not available.

vPvB: Not available.
vP: Not available. vB: Not available.

Other adverse effects

No known significant effects or critical hazards.

Notes

The product is virtually insoluble in water and thus can be separated from water mechanically in suitable effluent treatment plants.

13) Disposal Information

Waste treatment methods

Product

Methods of disposal: The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Examine possibilities for recycling. Return large quantities to the manufacturer.

Manganese violet should not be washed into the drainage system or where there is a risk of contact with strong alkalis.

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 spilled material and runoff and contact with soil, waterways, drains and sewers.

14) Transport Information

Not regulated for transport.

Keep separated from foodstuffs.

15) Regulatory Information

Labelling

This product is not a substance subject to mandatory marking.

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

EU Regulation (EC) No. 1907/2006 (REACH): Not listed

16) Other information

This product should be stored, handled and used in accordance with good hygiene practices and in conformity with any legal regulations.

To best of our knowledge the information contain herein is accurate. However, neither the above supplier assumes any liability whatsoever for the accuracy or completeness of the information herein

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist

Jackson's

SAFETY DATA SHEET

JACKSON'S ARTIST PIGMENTS

PRODUCT NAME: JACKSON'S ARTIST PIGMENT (EARTH)

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier: JACKSON'S ARTIST PIGMENT (EARTH)

Includes: Yellow Ochre, Transparent Gold Ochre, Gold Ochre, Orange Ochre, Red Ochre, Brown Ochre, Raw Cyprus Ochre, Natural Sienna Monte Amiata, Italian Raw Sienna, Italian Burnt Sienna, Cyprus Raw Umber Brownish, Raw Umber Greenish, Cyprus Raw Umber, Cyprus Burnt Umber, Cyprus Burnt Umber Deep, Raw Umber Reddish, Green Earth, Antique Green Earth, Caput Mortuum, English Red Light, English Red Deep, Venetian Red, Terra Pozzuoli, Terra Ercolana, Natural Black Iron Oxide, Slate, Hematite Red, Hematite Black, Van Dyck Brown, Mars Yellow Light, Mars Orange, Mars Red Light, Mars Red Deep, Mars Brown, Mars Black, Transparent Oxide Yellow, Transparent Oxide Red, Transparent Oxide Brown, Mars Yellow Deep, Burnt Sienna Monte Amiata, Saturn Red, Ochre Havana, Cyprus Burnt Umber Brownish, Cyprus Burnt Umber Light, Cyprus Raw Umber Light, Cyprus Raw Umber Deep, Verona Yellow Earth, Verona Red Earth, Venetian Yellow Earth, Yellow Ochre Deep, Verona Green Earth, Pompeii Red, French Raw Sienna, French Burnt Sienna.

1.2 Details of the supplier of the safety data sheet:

Jackson's Art Supplies
1 Farleigh Place
N16 7SX London
jacksonsart.com

Telf: +44 (0)207 254 0077
9-5:30 Mon-Fri
10-6 Saturday

SECTION 2: HAZARDS IDENTIFICATION

2.1. GHS classification of the substance/ mixture:

Classifi**2.1. GHS classification of the substance/ mixture:**
product has no label elements.
Other hazards: This substance is not identified as a PBT substance.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Natural Earths SiO_2 (CAS No: 763-86-9) + Al_2O_3 (CAS No: 1344-28-1) + Fe_2O_3 (CAS No: 1309-38-2)

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures:

Eye Contact: Flush eye with flowing water. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Skin Contact: Wash contaminated skin with soap & water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed.
Ingestion: Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. In each case if symptoms develop seek medical attention.

Most important symptoms and effects, both acute and delayed Potential acute health effects
Eye contact: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.
Inhalation: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Skin contact: No known significant effects or critical hazards.
Ingestion: No known significant effects or critical hazards. Over-exposure signs/symptoms
Eye contact: Adverse symptoms may include the following: irritation, redness
Inhalation: Adverse symptoms may include the following: respiratory tract irritation, coughing
Skin contact: No specific data.
Ingestion: No specific data.

Indication of any immediate medical attention and special treatment needed
Notes to physician: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments: No specific treatment

SECTION 5: FIREFIGHTING MEASURES

Suitable extinguishing media: No restriction in fire situations. Suitable extinguishing media for the surrounding fire should be used. Avoid use of a solid water stream or jet as it may scatter and spread fire.
Unsuitable extinguishing media: Water jet.
Hazards from the substance or mixture: Fine dust clouds may form explosive mixtures with air.
Hazardous thermal decomposition products: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds smoke oxides of nitrogen.
Advice for firefighter: Special protective actions for fire-fighters: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Put on appropriate personal protective equipment.
For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in 'For non-emergency personnel'.
Environmental precautions: Avoid dispersal of spilled 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).
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, labelled waste container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.
Large spill: Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. Avoid creating dusty conditions and prevent wind dispersal. Use spark-proof tools and explosion proof equipment. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling
Protective measures: Put on appropriate personal protective equipment (see Section 8). Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material.

Advice on general occupational hygiene: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities: Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well ventilated area, away from incompatible materials (see section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.
Specific end use(s)
Recommendations: Not available.
Industrial sector specific solutions: Not available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters occupational exposure limits
General Pigments: No exposure limit value known. Observe OEL limits for inhalable and respirable nuisance dust.
Mars Black: EH40/2005 WELs (United Kingdom (UK), 12/2011).
STEL: 10 mg/m³, (as Fe) 15 minutes. Form: Fume
TWA: 5 mg/m³, (as Fe) 8 hours. Form: Fume
DNEL : Dust Inhalable 10 mg/m³ , Respirable dust 3 mg/m³
Exposure controls
Appropriate engineering controls: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour 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. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Individual protection measures
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.
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.
Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Body 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.
Other skin protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Environmental exposure controls: 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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Powder
Odour: None
Melting point: General Products: >1000°C
Decomposition temperature: Mars Black >80 °C
Flash point: N/A.
Ph: 4-11Solubility: Insoluble in water.
Flammability: N/A
Boiling point: N/A

SECTION 10: STABILITY AND REACTIVITY

Reactivity: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability: The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.

Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.
No specific test data related to reactivity available for this product or its ingredients.
Chemical stability: The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.
Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid: Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Prevent dust accumulation.
Incompatible materials:
Reactive or incompatible with the following materials: oxidizing materials
Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced except: Mars Black: At temperatures above 80 °C the product may become unstable and oxidise. This generates additional heat which, under unfavourable conditions, may result in the combustion of flammable materials.
The product should therefore not be stored near heat sources.

SECTION 11: TOXICOLOGICAL INFORMATION

Eye contact: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.
Inhalation: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Skin contact: No known significant effects or critical hazards.
Ingestion: No known significant effects or critical hazards
Symptoms related to the physical, chemical and toxicological characteristics
Eye contact: Adverse symptoms may include the following: Irritation, redness
Inhalation:
Adverse symptoms may include the following: respiratory tract irritation, coughing
Skin contact: No specific data.
Ingestion: May cause discomfort if swallowed.
Delayed and immediate effects and also chronic effects from short and long term exposure
Short term exposure
Potential immediate effects: Not available.
Potential delayed effects: Not available.
Long term exposure
Potential immediate effects: Not available.
Potential delayed effects: Not available.
Potential chronic health effects: Not available.
Conclusion/Summary: Not available.
General: Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.
Carcinogenicity: No known significant effects or critical hazards.
Mutagenicity: General Pigments: No known significant effects or critical hazards.
Mars Black: Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.
Teratogenicity: No known significant effects or critical hazards.
Developmental effects: No known significant effects or critical hazards.
Fertility effects: No known significant effects or critical hazards.
Other information: Not available.
Oral Toxicity: General Products LD50 (rat)>10g/Kg

SECTION 12: ECOLOGICAL INFORMATION

Toxicity Conclusion/Summary: Not available.
Persistence and degradability Conclusion/Summary: Not available.
Bioaccumulative potential
General Products: Not available.

Mars Black

LogPow	BCF	Potential
1.56	-	low

Mobility in soil
Soil/water partition coefficient (Koc): Not available

Mobility: Not available
Results of PBT and vPvB assessment
PBT: Not available.
P: Not available. B: Not available. T: Not available.
vPvB: Not available.
vP: Not available. vB: Not available.
Other adverse effects
No known significant effects or critical hazards.
Notes
The product is virtually insoluble in water and thus can be separated from water mechanically in suitable effluent treatment plants.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods
Product
Methods of disposal: The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.
Examine possibilities for recycling. Return large quantities to the manufacturer.
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 spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: TRANSPORT INFORMATION

Not regulated for transport. Keep separated from foodstuffs.

SECTION 15: REGULATORY INFORMATION

Labelling
This product is not a substance subject to mandatory marking.
Safety, health and environmental regulations/legislation specific for the substance or mixture.
EU Regulation (EC) No. 1907/2006 (REACH): Not listed

SECTION 16: OTHER INFORMATION

This product should be stored, handled and used in accordance with good hygiene practices and in conformity with any legal regulations.
To best of our knowledge the information contain herein is accurate. However, neither the above supplier assumes any liability whatsoever for the accuracy or completeness of the information herein Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

THE EARTH PIGMENTS COMPANY

Material Safety Data Sheet

SECTION 1	Product and Company Information

Product Name	Environox Falun Red, Terra Cotta, Dark Brown
Product Number	ENV 832, 833, 834
Company	The Earth Pigments Company P.O. Box 1172 Cortaro, AZ 85652 USA

Technical Telephone (520) 682-8928

SECTION 2	COMPOSITION

Product Synonyms	Iron Oxide, Inorganic Pigment
Color Index	Pigment Brown #6
CAS-No	52357-70-7
Chemical Formula	Fe203/Fe-O-OH
Color and Form	Brown Odorless Powder

SECTION 3	Hazards Identification

NUISANCE DUST – This material is considered a Nuisance Dust.
Personal Protection Hazard Rating: E (glasses, gloves, dust respirator)

Emergency Overview Product presents little or no hazard if spilled. May cause mechanical irritation.

Primary Routes of Entry: Inhalation, Skin Contact, Eye Contact, Ingestion

Medical Conditions Aggravated by Exposure: Respiratory disorders

Symptoms of Overexposure: May cause respiratory tract irritation with symptoms of coughing, sore throat and runny nose.

Acute Skin: May cause mechanical irritation

Acute Eye: May cause mechanical irritation

CARCINOGENITY:
No Carcinogenic substances as defined by IARC, NTP and/or OSHA

SECTION 4 FIRST AID MEASURES

EYE CONTACT: In case of contact, flush eyes with plenty of lukewarm water. Get medical attention if irritation develops.

SKIN CONTACT: In case of skin contact, wash affected areas with soap and water.

INHALATION: If inhaled, remove to fresh air. Get medical attention if irritation develops.

INGESTION: If ingested, do not induce vomiting unless directed to do so by medical personnel. Get medical attention.

SECTION 5 FIRE-FIGHTING MEASURES

THIS MATERIAL IS NOT COMBUSTIBLE

Suitable Extinguishing Media for surrounding area: water, foam, dry chemical

Special Fire Fighting Procedures:Firefighters should wear self-contained breathing apparatus and full protective clothing.

SECTION 6 ACCIDENTAL RELEASE MEASURES

The specific gravity of this solid material means it will not travel far from the spill location unless mechanically agitated. Spills should be cleaned promptly and placed in appropriate containers for disposal. Avoid creating dusty conditions. Water may be utilized to minimize dust, but must also be disposed of in proper containers.

Large spills should be swept up and placed in appropriate containers for disposal. Clean up promptly by scoop, vacuum with HEPA filter, wet broom or mop, disposing of wastewater in containers. Employees should utilize basic safety equipment to protect against excessive dust, including safety glasses, leather or rubber gloves, protective clothing of cotton or Tyvek and respiratory protection.

SECTION 7 HANDLING AND STORAGE

Storage Period
Unlimited in tightly closed containers

Handling/Storage Precautions
Handle in accordance with good industrial hygiene and safety practices. Wash thoroughly after handling. Keep container closed when not in use. Avoid breathing dust.

Store at ambient temperatures less than 300° F.

SECTION 8	EXPOSURE CONTROLS/PERSONAL PROTECTION

Good housekeeping procedures should be followed to prevent dust during processing.

Professional Measures:
Respiratory Protection: Dust respirator
Skin Protection: Impervious protective clothing such as rubber gloves to prevent skin contact
Eye/Face Protection: Safety goggles when dusting is possible

Additional Information
To control potential exposures, avoid creating dust. Avoid direct skin contact when possible. Do not eat, drink, smoke, apply cosmetics or perform any other hand-to-mouth activities when handling product. Wash thoroughly after handling.

SECTION 9	STABILITY AND REACTIVITY

Hazardous reactions: Hazardous polymerization does not occur
Heat Stability: Stable to 300 degrees F.
Incompatibility: Strong Oxidizers, Hydrazine, Calcium Hypochlorite, Performic Acid and Bromine Pentafluoride.

SECTION 10	TOXOLOCIAL INFORMATION

NTP Carcinogen Known: No
NTP Carcinogen Anticipated: No

SECTION 11	ECOLOGICAL INFORMATION

Biodegradation: The methods for determining the biological degradability are not applicable to inorganic substances.

SECTION 12	DISPOSAL CONIDERATIONS

Waste Disposal: Waste disposal of material and containers should be done in accordance with local regulations. Because inorganic pigments cannot biodegrade, they should be disposed of in a landfill to protect ground water.

SECTION 13	TRANSPORTATION

NON-REGULATED Land, Sea or Air Transport

SECTION 14	OTHER INFORMATION

The information set forth herein is presented in good faith and believed to be accurate. It does not purport to be all-inclusive, but shall be used as a guide. It is supplied without warranty, express or implied. This MSDS relates only to the specific material designated herein. The Earth Pigments Company supplies this information upon the condition that the persons receiving same will make their own determination as to suitability for use or merchantability prior to use. The Earth Pigments Company shall not be held liable for any damage resulting from resale, handling or contact with the above product.

EARTH PIGMENTS

SAFETY DATA SHEET
(According to 91/155/EEC – Revision REACH 01/07/08)

1- Commercial Product name: Italian Umber

Company: The Earth Pigments Company, LLC
PO Box 1172
Cortaro, AZ 85743 USA

Telephone: Tel.: 520-682-8928

e-mail: info@earthpigments.com

2- Hazard identification

Not necessary.

3- Composition / Chemical characterisation

Milled and purified burnt umber Italian earth.(Mn02-Mn3O2).
C.I. Pigment Brown 7
CAS number 12713-03-0

4- First aid measures:

Inhalation:	If inhaled, move to fresh air
Eyes:	Flush with flowing water
Skin:	Wash affected skin with soap and water
Ingestion:	If swallowed, give water then induce vomiting.

5- Fire fighting measures:

This product is not flammable and doesn't produce toxic products.
Unusual fire and explosion hazards : none

6-Accidental release measures:

Personal precautions:	Clean up with the appropriate personal equipment
Environmental precautions:	The product is not dangerous for the environment

7 -Handling and storage:

A moderately dry, well-ventilated area is considered suitable for handling and storage.
Usual precautions for nuisance dust should be observed.
Steps to be taken in case material is released or spilled: clean up with wetting or material avoiding dusting.

8- Explosion control / personal protection:

Respiratory/ eye/ hand protection: Not necessary
Respiratory protection is advisable in dusty place.
TLV-TWA = 10 mg/m3

9- Physical & chemical properties:

Appearance:	powder
Odour:	none
PH:	6-9
Solubility in water:	insoluble in water
Specific gravity:(H_2O=1)	ca. 0,800
Boiling /melting/flash point:	not applicable
Flammability/auto flammability:	none
Extinguishing media:	no restriction

10- Stability and reactivity:

Stability:	stable under normal conditions of storage and use
Hazardous reactions:	none

11- Toxicological information:

The product is not toxic

Acute oral toxicity:	LD50 (rat) > 5 g /kg

12- Ecological information

Not dangerous for the environment

13- Disposal considerations:

Consult a local expert for advice on the disposal of the material.
Ensure that disposal is in compliance with local, state and/or federal regulations.

14- Transport information:

no restrictions.

15- Regulatory information:

The product is not a substance subjected to mandatory marking with the EEC Directive 67/548/EEC. It is a natural product.

16- Other information

The information herein is based on the present state of our knowledge, but without liability.

Date: 11/10/14

MATERIAL SAFETY DATA SHEET

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

The Earth Pigments Company, LLC
PO Box 1172
Cortaro, AZ 85652
Phone: 520-682-8928

Product Name: **Roman Black (TR/0268)**

Product Description: Powdered Black Pigment

SECTION 2 – HAZARD IDENTIFICATION

Not necessary.

SECTION 3 – COMPOSITION/CHEMICAL CHARACTERIZATION

Milled and purified natural black earth (lignite, iron oxide)
C. I.: Pigment Brown 7 + Black 6
CAS #: 1317-61-9

SECTION 4 – FIRST AID MEASURES

Inhalation:	If inhaled, move to fresh air
Eyes:	Flush eye with flowing water
Skin:	Wash affected skin with soap and water
Ingestion:	If swallowed, dilute with water and induce vomiting.

SECTION 5 – FIRE FIGHTING MEASURES

This product is not flammable, it doesn't produce toxic effect.
Unusual fire and explosion hazards : none

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions:	Clean up with the appropriate personal equipment
Environmental precautions:	The product is not dangerous for the nature

SECTION 7 – HANDLING AND STORAGE

A moderately dry, well-ventilated area is considered suitable for handling and storage.
Usual precautions for nuisance dust should be observed.
Steps to be taken in case material is released or spilled: clean up with wetting or material avoiding dusting.

SECTION 8 – EXPLOSION CONTROL / PERSONAL PROTECTION

Respiratory/ eye/ hand protection: not necessary
Respiratory protection is advisable in dusty place.
TLV-TWA = 10 mg/m3

SECTION 9 – PHYSICAL & CHEMICAL PROPERTIES

Appearance: powder
Odour: none
pH: 6-9
Solubility in water: insoluble in water
Specific gravity: (H2O=1) ca. 0,800
Boiling /melting/flash point: not applicable
Flammability/auto flammability: none
Extinguishing media: no restriction

SECTION 10 – STABILITY AND REACTIVITY

Stability: stable under normal conditions of storage and use
Hazardous reactions: none.

SECTION 11 – TOXICOLOGICAL INFORMATION

The product is not toxic
Acute oral toxicity: LD50 (rat) > 5 g /kg

SECTION 12 – ECOLOGICAL INFORMATION

Not dangerous for the nature

SECTION 13 – DISPOSAL CONSIDERATIONS

Consult a local expert for advice on the disposal of the material.
Ensure that disposal is in compliance with local, national regulations.

SECTION 14 – TRANSPORT INFORMATION

No restrictions

SECTION 15 – REGULATORY INFORMATION

The product is not a substance subjected to mandatory marking with the EEC Directive 67/548/EEC. It is a natural product.

SECTION 16 – OTHER INFORMATION

The information herein is based on the present state of our knowledge, but without liability.

Date: 15/08/14

FICHE DE DONNEES DE SECURITE

TERRE ROUGE D'ITALIE

SAFETY DATA SHEET

1- Commercial Product name: **TERRA ROSSA SAR (TR/0270)**

Distributor : STE DES OCRES DE France
Impasse des Ocriers
84400 – APT – France

00.33 (0)490.746.382

2- Hazard identification

Not necessary.

3- Composition / Chemical characterisation

CAS number: 999999-99-4
EINECS: 310-127-6

4- First aid maesures:

Inhalation:	If inhaled, move to fresh air
Eyes:	Flush eye with flowing water
Skin:	Wash affected skin with soap and water
Ingestion:	If swallowed, dilute with water and induce vomiting.

5- Fire fighting measures:

This product is not flammable, it doesn't produce toxic effect.
Unusual fire and explosion hazards : none

6-Accidental release measures:

Personal precautions:	clean up with the appropriate personal equipment
Environmental precautions:	The product is not dangerous for the nature

7 -Handling and storage:

A moderately dry, well-ventilated area is considered suitable for handling and storage.
Usual precautions for nuisance dust should be observed.
Steps to be taken in case material is released or spilled: clean up with wetting or material avoiding dusting.

8- Explosion control / personal protection:

Respiratory/ eye/ hand protection: not necessary
Respiratory protection is advisable in dusty place.
TLV-TWA = 10 mg/m3

9- Physical & chemical properties:

Appearance:	powder
Odour:	none
pH:	6/7
Solubility in water:	insoluble in water
Specific gravity:(H_2O=1)	ca. 0,99 gr/cm^3
Boiling /melting/flash point:	not applicable
Flammability/auto flammability:	none
Extinguishing media:	no restriction

10- Stability and reactivity:

Stability:	stable under normal conditions of storage and use
Hazardous reactions:	none

11- Toxicological information:

The product is not toxic

Acute oral toxicity: LD50 (rat) > 5 g /kg

12- Ecological information

Not dangerous for the nature

13- Disposal considerations:

Consult a local expert for advice on the disposal of the material.
Ensure that disposal is in compliance with local, national regulations.

14- Transport information:

no restrictions.

15- Regulatory information:

The product is not a substance subjected to mandatory marking with the EEC Directive 67/548/EEC. It is a natural product.

16- Other information

The information herein is based on the present state of our knowledge, but without liability.

Date: 16/02/11

MATERIAL SAFETY DATA SHEET

ACCORDING TO DIRECTIVE 91/155/EEC

1. IDENTIFICATION OF THE SUBSTANCE, THE PREPARATION AND THE COMPANY

1.1.	IDENTIFICATION OF THE SUBSTANCE	**SLATE**
1.2.	IDENTIFICATION OF THE COMPANY	**STE OCRES DE FRANCE** **Impasse des Ocriers** **F - 84401 APT CEDEX** **Tél: 04.90.74.63.82 / FAX: 04. 90.74.46.75**
1.3.	EMERGENCY PHONE NUMBER	Telephone : + 33 (0) 4.90.74.47.67 Telephone : + 33 (0) 4.90.74.63.82

2. COMPOSITION / INFORMATION OF THE COMPONENTS

2.	COMPOSITION	FE203 - SI02 - AL203

3. IDENTIFICATION OF DANGERS

3.	SPECIFIC DANGERS :	None. Coloured loams are not classified within dangerous components but cannot be used in the pharmaceutical, cosmetics, food industry and subsidiaries sectors.

4. FIRST HELP

4.1.	CONTACT WITH EYES	Wash with water while spreading the eyelids In case of obstinate irritation, consult an oculist.
4.2.	CONTACT WITH SKIN	Wash with soapy water and rinse with water
4.3.	INHALATION	Move the person to open air. In case of sickness, consult a doctor
4.4.	INGESTION	In case of suspicions or recurrent symptoms call a doctor

5. BATTLE AGAINST FIRE MEASURES

	MEANS OF EXTINCTION :	
5.1.	Advisable :	none
5.2.	Counter indication:	none
5.3.	Specific dangers :	none
5.4.	Protection of the intervening parties :	none

6. MEASURES TO TAKE IN CASE OF ACCIDENTAL DISPERSION

6.1.	INDIVIDUAL PROTECTIONS :	Wear protective clothing
6.2.	PRECAUTIONS FOR THE PROTECTION OF THE ENVIRONMENT :	Avoid sewer dumping
6.3.	CLEANING INSTRUCTIONS:	None
6.4.	RECOVERY:	Vacuum Cleaning
6.5.	CLEANING:	Use soapy water

7. HANDLING AND STORAGE

7.1.	HANDLING	Handle avoiding dust emission.
7.2.	PRECAUTIONS	Capture of dusts at the emission source.
7.3.	STORAGE	Stable product in normal storage conditions.
7.4.	STORING ADVISE	Keep bags or buckets away from humidity.
7.5.	INCOMPATIBLE MATTERS	None to our knowledge
7.6.	MATERIAL PACKING	Paper bag or plastic bucket

8. EXPOSURE CONTROL / INDIVIDUAL PROTECTION

8.1.	RESPIRATORY PROTECTION	Wear a protecting mask against dusts
8.2.	HANDS PROTECTION	Wear suitable gloves
8.3.	EYES PROTECTION	Wear protective glasses
8.4.	SPECIFIC HYGIENE MEASURES	No food, no drinks, no smoking during use

9. CHEMICAL AND PHYSICAL PROPERTIES

9.1.	PHYSICAL STATE	Micro Granulate
9.2.	COLOR	Grey
9.3.	ODOR	Odourless
9.4.	TEMPERATURE OF FUSION	> 1385 ° C
9.5.	PH VALUE	+/- 9

10. STABILITY AND REACTIVITY

10.1 STABILITY	Stable in normal storage conditions.
10.2 HARMFUL REACTIONS	None, in normal conditions of use.

12. ECOLOGICAL INFORMATION

Ecotoxicological studies on similar products have given the following results:
High toxicity on fishes : (Leuciscus Idus) CLO: 1000mg/liter
High toxicity on bacteria : No harmful outcome on pseudomonas putida : > 1000mg/liter
Due to the almost total water insolvability a separation occurs during all filtration or sedimentation process.

13. ELIMINATION CONNECTED CONSIDERATIONS

13.1. PROCEDURE OF NEUTRALIZATION AND DESTRUCTION OF THE PRODUCT
Eliminate in a controlled dump

13.2. PROCEDURE OF DESTRUCTION OF THE CONTAMINATED PACKING /
No reusable packing, to be eliminated in a controlled dump

14. RELATIVE INFORMATION TO THE TRANSPORTATION

14.1	GGVSee/IMDG CODE	---
14.2	GGVE/GGVS	---
14.3	UN No.	---
14.4	RID / ADR	---
14.5	ICAO / IATA-DGR	---
14.6	ADNR	---

INTERNATIONAL REGULATION : This product is not regulated. Sensible to humidity. Keep away from food, acids and its basis. Sensible to odors.

15. AUTHORIZED INFORMATION

This product is not submitted to labelling.
Iron (Fe203, smokes in Fe) : VME = 5 mg/m3 (France)
Dusts : VME = 5mg/m3 in alveolus dust and 10 mg/m3 in total dusts.
CMA Value : 6mg/m3 as alveolus sprayer.

16. OTHER INFORMATION

This safety card has been achieved in accordance with T01-102/12/92 guideline and 91/155/EG. The indicated information is based on the state of our knowledge of the concerned product. Information and recommendations contained in this form are only based on estimated data. Nevertheless it can be given no insurance or relative guarantee to the present information. **SOCIETE DES OCRES DE FRANCE. F - 84401 APT CEDEX**

MATERIAL SAFETY DATA SHEET

ACCORDING TO DIRECTIVE 91/155/EEC

1. IDENTIFICATION OF THE SUBSTANCE, THE PREPARATION AND THE COMPANY

1.1.	IDENTIFICATION OF THE SUBSTANCE	**VENETIAN RED**
1.2.	IDENTIFICATION OF THE COMPANY	**STE OCRES DE FRANCE** **Impasse des Ocriers** **F - 84401 APT CEDEX** **Ph: 04.90.74.63.82 / FAX: 04. 90.74.46.75**
1.3.	EMERGENCY PHONE NUMBER	Telephone: + 33 (0) 4.90.74.47.67 Telephone: + 33 (0) 4.90.74.63.82

2. COMPOSITION / INFORMATION OF THE COMPONENTS

2.1.	COMPOSITION	FE203 – NH2O

3. IDENTIFICATION OF DANGERS

3.1. SPECIFIC DANGERS: None.
Colored loams are not classified within dangerous components.
But cannot be used in the pharmaceutical, cosmetics, food industry and subsidiaries sectors.

4. FIRST HELP

4.1.	CONTACT WITH EYES	Wash with water while spreading the eyelids In case of obstinate irritation, consult an oculist.
4.2.	CONTACT WITH SKIN	Wash with soapy water and rinse with water
4.3.	INHALATION	Move the person to open air. In case of sickness, consult a doctor
4.4.	INGESTION	In case of suspicions or recurrent symptoms call a doctor

5. BATTLE AGAINST FIRE MEASURES

	MEANS OF EXTINCTION:	
5.1.	Advisable:	None
5.2.	Counter indication:	None
5.3.	Specific dangers:	None
5.4.	Protection of the intervening parties:	None

6. MEASURES TO TAKE IN CASE OF ACCIDENTAL DISPERSION

6.1.	INDIVIDUAL PROTECTIONS:	Wear protective clothing
6.2.	PRECAUTIONS FOR THE PROTECTION OF THE ENVIRONMENT:	Avoid sewer dumping
6.3.	CLEANING INSTRUCTIONS:	None
6.4.	RECOVERY:	Vacuum Cleaning
6.5.	CLEANING:	Use soapy water

7. HANDLING AND STORAGE

7.1.	HANDLING	Handle avoiding dust emission.
7.2.	PRECAUTIONS	Capture of dusts at the emission source.
7.3.	STORAGE	Stable product in normal storage conditions.
7.4.	STORING ADVISE	Keep bags or buckets away from humidity.
7.5.	INCOMPATIBLE MATTERS	None to our knowledge
7.6.	MATERIAL PACKING	Paper bag or plastic bucket

8. EXPOSURE CONTROL / INDIVIDUAL PROTECTION

8.1.	RESPIRATORY PROTECTION	Wear a protecting mask against dusts
8.2.	HANDS PROTECTION	Wear suitable gloves
8.3.	EYES PROTECTION	Wear protective glasses
8.4.	SPECIFIC HYGIENE MEASURES	No food, no drinks, no smoking during use

9. CHEMICAL AND PHYSICAL PROPERTIES

9.1.	PHYSICAL STATE	Powder
9.2.	COLOR	Red
9.3.	ODOR	Odorless
9.4.	TEMPERATURE OF FUSION	> 1000 ° C
9.5.	PH VALUE	3.5 - 6

10. STABILITY AND REACTIVITY

10.1	STABILITY	Stable in normal storage conditions.
10.2	HARMFUL REACTIONS	None, in normal conditions of use.

11. TOXICOLOGICAL INFORMATION

Toxicological testing with similar chemical products gave the following information:
DL 50 by oral testing, test on rat: > 5000mg / kg
Rabbit Skin (24H00): Non irritant. Rabbit eye: Non irritant
Under our actual knowledge the pigments manufactured by the company SOCIETE DES OCRES DE FRANCE are physiologically non harmful. Hence in case of eye contact and under the mechanical effect of powder there is a small risk of slight temporary irritation of the ocular mucous membrane and this in extreme situations.

12. ECOLOGICAL INFORMATION

Ecotoxicological studies on similar products have given the following results:
High toxicity on fishes: (Leuciscus Idus) CLO: 1000mg/liter
High toxicity on bacteria: No harmful outcome on pseudomonas putida: > 1000mg/liter
Due to the almost total water insolvability a separation occurs during all filtration or sedimentation process.

13. ELIMINATION CONNECTED CONSIDERATIONS

13.1. PROCEDURE OF NEUTRALIZATION AND DESTRUCTION OF THE PRODUCT
Eliminate in a controlled dump
13.2. PROCEDURE OF DESTRUCTION OF THE CONTAMINATED PACKING /
No reusable packing, to be eliminated in a controlled dump

14. RELATIVE INFORMATION TO THE TRANSPORTATION

14.1	GGVSee/IMDG CODE	---
14.2	GGVE/GGVS	---
14.3	UN No.	---
14.4	RID / ADR	---
14.5	ICAO / IATA-DGR	---
14.6	ADNR	---

INTERNATIONAL REGULATION: This product is not regulated. Sensible to humidity and to odors. Keep away from food, acids and its basis.

15. AUTHORIZED INFORMATION

This product is not submitted to labeling.
Iron (Fe203, smokes in Fe): VME = 5 mg/m3 (France)
Dusts: VME = 5mg/m3 in alveolus dust and 10 mg/m3 in total dusts.
CMA Value: 6mg/m3 as alveolus sprayer.

16. OTHER INFORMATION

This safety card has been achieved in accordance with T01-102/12/92 guideline and 91/155/EG.
The indicated information is based on the state of our knowledge of the concerned product. Information and recommendations contained in this form are only based on estimated data.
Nevertheless it can be given no insurance or relative guarantee to the present information.
SOCIETE DES OCRES DE FRANCE. F - 84401 APT CEDEX

FICHE DE DONNEES DE SECURITE Conforme au règlement (CE) n°1907/2006 (REACH),n°2015/830

Colorer votre vie au naturel

SAFETY DATA SHEET

Rubrique 1 :IDENTIFICATION OF THE SUBSTANCE, THE PREPARATION AND THE COMPANY

1.1 Identification of the substance / mixture

BROWN OCHER

1.2Relevant identified uses of the substance or mixture and uses advised against

Coloring material for building materials and use of creative hobbies

1.3Manufacturer information

STE DES OCRES DE France
Impasse des Ocriers
84400 – APT – France
www.ocresdefrance.fr

1.3 emergency number

www.centres-antipoison.net 01 40 05 48 48 (centre anti-poison)

Rubrique 2 : IDENTIFICATION OF RISKS

2.1 classification of the substance or mixture in accordance with Regulation (EC) No 1272/2008 and its adjustments.

This mixture is not classified as dangerous according to Directive 67/548 / EEC and its amendments.
For more details on health consequences and symptoms, see section 11.

2.2 labeling elements in accordance with Regulation (EC) No 1272/2008 and its adaptations.

No labeling element is required

2.3 Another dangers

The mixture does not meet the criteria for PBT or vPvB substances according to Annex XIII of REACH Regulation (CE) No 1907/2006

Rubrique 3: COMPOSITION / INFORMATION ON COMPONENTS

CI : Y43-Bk11
Composition : $SiO_2 + Al_2O_3 + Fe_2O_3 + CaCo_3 + SiO_{10} (OH) 2Mg_3$
Substance/ préparation : preparation
Numéros cas : no
Numéros einecs : no

To the present knowledge of the supplier, this product does not contain any ingredients that are hazardous to require a statement in this section, in accordance with EU regulations or national regulations.
REACH: this preparation is not subject to REACH

Rubrique 4: FIRST AID

Transport the person to the fresh air. In case of fainting, place the person in a lateral safety position.
Immediately flush eyes with plenty of water, occasionally lifting the eyelids. Check if the victim wears contact lenses and in this case remove them.
If irritation occurs, consult a doctor.

Rubrique 5: FIRE FIGHTING MEASURES

The mixture is not flammable. In case of fire, spray with water (in fog), foam, dry chemical or carbon dioxide.

Rubrique 6: MEASURES TO BE TAKEN IN CASE OF ACCIDENTAL RELEASE

Provide adequate ventilation. Put on appropriate personal protective equipment.
Avoid dispersal and spillage of the spilled product and contact with soil, surrounding aquatic environment, sewers or drains.

Rubrique 7: HANDLING AND STORAGE

No special measures required

Rubrique 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Wash hands, forearms and face after handling product.
Recommended: dust mask
Avoid contact with eyes. Use eye protection in accordance with an approved standard
Personal protective equipment for the body should be selected according to the task to be performed and the risks involved.

Rubrique 9: PHYSICAL AND CHEMICAL PROPERTIES

general informations
Physical state: powder
Color :brown
Odor: odorless
PH: 7
Melting point: not available
Bulk density: 650 g / l
Solubility: insoluble

Rubrique 10: STABILITY AND REACTIVITY

The product is stable
Under normal conditions of storage and use, no hazardous decomposition products should appear.

Rubrique 11: TOXICOLOGICAL INFORMATION

Any effects of chronic toxicity or sensitization are virtually excluded by
that solid ocher is a natural mineral of the earth's surface and, in the dissolved state,
a natural constituent of water in nature.
Inhalation: No known significant effects or critical hazards.
Ingestion: No known significant effects or critical hazards.
Skin contact: No known significant effects or critical hazards.
Eye contact: Exposure to atmospheric concentrations above
statutory or recommended exposure limits may
possibly lead to eye irritation.

If the product is handled properly, it has no harmful effects according to our experiences and information

Rubrique 12: ECOLOGICAL INFORMATION

Ochre is, in the solid state, a mineral constituent, natural of the earth. In the dissolved state, the substance is a natural constituent of water in nature. Therefore, adverse effects on the environment can be excluded. Ochre can not be biodegraded.

Rubrique 13: CONSIDERATIONS RELATING TO ELIMINATION

In general: Check the suitability of the product for reuse. Uncleaned waste and uncleaned packaging must be packed or closed, labeled and disposed of at a destruction or recycling center in accordance with the national legislation in force. Consult the manufacturer in case of large quantities. If uncleaned empty containers are forwarded, inform the consignee of the possible risks due to the residues of the product. For disposal within the EU, use the waste code in force according to the European Waste List (LED). All waste producers are required, among other things, to classify their waste according to the category and process code of the European Waste List (LED).

To the present knowledge of the supplier, this product is not considered a hazardous waste as defined by EU Directive 91/689 / EEC

Rubrique 14: TRANSPORT

This product is not subject to labeling. No special conditions

Rubrique 15: REGULATORY INFORMATION

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

- Classification and labeling information in section 2:

The following regulations have been taken into account:

- Règlement (CE) n° 1272/2008 modifié par le règlement (UE) n° 487/2013
- Règlement (CE) n° 1272/2008 modifié par le règlement (UE) n° 758/2013
- Règlement (CE) n° 1272/2008 modifié par le règlement (UE) n° 944/2013
- Règlement (CE) n° 1272/2008 modifié par le règlement (UE) n° 605/2014
- Règlement (CE) n° 1272/2008 modifié par le règlement (UE) n° 1297/2014
- Information about the packaging:

No data available.

- Particular dispositions :

No data available.

15.2. Chemical safety assessment

No data available.

Rubrique 16: ANOTHER INFORMATIONS

Abréviations :

ADR : Accord européen relatif au transport international de marchandises Dangereuses par la Route.
IMDG : International Maritime Dangerous Goods.
IATA : International Air Transport Association.
OACI : Organisation de l'Aviation Civile Internationale.
RID : Regulations concerning the International carriage of Dangerous goods by rail.
WGK : Wassergefahrdungsklasse (Water Hazard Class).
PBT : Persistante, bioaccumulable et toxique.
vPvB : Très persistante et très bioaccumulable.
SVHC : Substance of Very High Concern

Historical
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Colorer votre vie au naturel

FICHE DE DONNEES DE SECURITE Conforme au règlement (CE) n°1907/2006 (REACH),n°2015/830

SAFETY DATA SHEET

Rubrique 1 :IDENTIFICATION OF THE SUBSTANCE, THE PREPARATION AND THE COMPANY

1.1 Identification of the substance / mixture

HAVANA OCHER

1.2Relevant identified uses of the substance or mixture and uses advised against

Coloring material for building materials and use of creative hobbies

1.3Manufacturer information

STE DES OCRES DE France
Impasse des Ocriers
84400 – APT – France
www.ocresdefrance.fr

1.3 emergency number

www.centres-antipoison.net 01 40 05 48 48 (centre anti-poison)

Rubrique 2 : IDENTIFICATION OF RISKS

2.1 classification of the substance or mixture in accordance with Regulation (EC) No 1272/2008 and its adjustments.

This mixture is not classified as dangerous according to Directive 67/548 / EEC and its amendments.
For more details on health consequences and symptoms, see section 11.

2.2 labeling elements in accordance with Regulation (EC) No 1272/2008 and its adaptations.

No labeling element is required

2.3 Another dangers

The mixture does not meet the criteria for PBT or vPvB substances according to Annex XIII of REACH Regulation (CE) No 1907/2006

Rubrique 3: COMPOSITION / INFORMATION ON COMPONENTS

CI : Y43-R102
Composition : SiO_2 +Al_2O_3+Fe_2O_3
Substance/ préparation : preparation
Numéros cas : no
Numéros einecs : no

To the present knowledge of the supplier, this product does not contain any ingredients that are hazardous to require a statement in this section, in accordance with EU regulations or national regulations.
REACH: this preparation is not subject to REACH

Rubrique 4: FIRST AID

Transport the person to the fresh air. In case of fainting, place the person in a lateral safety position.
Immediately flush eyes with plenty of water, occasionally lifting the eyelids. Check if the victim wears contact lenses and in this case remove them.
If irritation occurs, consult a doctor.

Rubrique 5: FIRE FIGHTING MEASURES

The mixture is not flammable. In case of fire, spray with water (in fog), foam, dry chemical or carbon dioxide.

Rubrique 6: MEASURES TO BE TAKEN IN CASE OF ACCIDENTAL RELEASE

Provide adequate ventilation. Put on appropriate personal protective equipment.
Avoid dispersal and spillage of the spilled product and contact with soil, surrounding aquatic environment, sewers or drains.

Rubrique 7: HANDLING AND STORAGE

No special measures required

Rubrique 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Wash hands, forearms and face after handling product.
Recommended: dust mask
Avoid contact with eyes. Use eye protection in accordance with an approved standard
Personal protective equipment for the body should be selected according to the task to be performed and the risks involved.

Rubrique 9: PHYSICAL AND CHEMICAL PROPERTIES

general informations
Physical state: powder
Color : orange
Odor: odorless
Important health, safety and environmental information
PH: 7
Melting point: not available
Bulk density: 685 g / l
Solubility: insoluble

Rubrique 10: STABILITY AND REACTIVITY

The product is stable
Under normal conditions of storage and use, no hazardous decomposition products should appear.

Rubrique 11: TOXICOLOGICAL INFORMATION

Any effects of chronic toxicity or sensitization are virtually excluded by
that solid ocher is a natural mineral of the earth's surface and, in the dissolved state,
a natural constituent of water in nature.
Inhalation: No known significant effects or critical hazards.
Ingestion: No known significant effects or critical hazards.
Skin contact: No known significant effects or critical hazards.
Eye contact: Exposure to atmospheric concentrations above
statutory or recommended exposure limits may
possibly lead to eye irritation.

If the product is handled properly, it has no harmful effects according to our experiences and information

Rubrique 12: ECOLOGICAL INFORMATION

Ochre is, in the solid state, a mineral constituent, natural of the earth. In the dissolved state, the substance is a natural constituent of water in nature. Therefore, adverse effects on the environment can be excluded. Ochre can not be biodegraded.

Rubrique 13: CONSIDERATIONS RELATING TO ELIMINATION

In general: Check the suitability of the product for reuse. Uncleaned waste and uncleaned packaging must be packed or closed, labeled and disposed of at a destruction or recycling center in accordance with the national legislation in force. Consult the manufacturer in case of large quantities. If uncleaned empty containers are forwarded, inform the consignee of the possible risks due to the residues of the product. For disposal within the EU, use the waste code in force according to the European Waste List (LED). All waste producers are required, among other things, to classify their waste according to the category and process code of the European Waste List (LED).

To the present knowledge of the supplier, this product is not considered a hazardous waste as defined by EU Directive 91/689 / EEC

Rubrique 14: TRANSPORT

This product is not subject to labeling. No special conditions

Rubrique 15: REGULATORY INFORMATION

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

- Classification and labeling information in section 2:

The following regulations have been taken into account:

- Règlement (CE) n° 1272/2008 modifié par le règlement (UE) n° 487/2013
- Règlement (CE) n° 1272/2008 modifié par le règlement (UE) n° 758/2013
- Règlement (CE) n° 1272/2008 modifié par le règlement (UE) n° 944/2013
- Règlement (CE) n° 1272/2008 modifié par le règlement (UE) n° 605/2014
- Règlement (CE) n° 1272/2008 modifié par le règlement (UE) n° 1297/2014
- Information about the packaging:

No data available.

- Particular dispositions :

No data available.

15.2. Chemical safety assessment

No data available.

Rubrique 16: ANOTHER INFORMATIONS

Abréviations :

ADR : Accord européen relatif au transport international de marchandises Dangereuses par la Route.
IMDG : International Maritime Dangerous Goods.
IATA : International Air Transport Association.
OACI : Organisation de l'Aviation Civile Internationale.
RID : Regulations concerning the International carriage of Dangerous goods by rail.
WGK : Wassergefahrdungsklasse (Water Hazard Class).
PBT : Persistante, bioaccumulable et toxique.
vPvB : Très persistante et très bioaccumulable.
SVHC : Substance of Very High Concern

Historical
Date of publication: JUNE 2018
Date of the previous edition: SEPTEMBER 2016

Colorer votre vie au naturel

FICHE DE DONNEES DE SECURITE Conforme au règlement (CE) n°1907/2006 (REACH),n°2015/830

SAFETY DATA SHEET

Rubrique 1 :IDENTIFICATION OF THE SUBSTANCE, THE PREPARATION AND THE COMPANY

1.1 Identification of the substance

RED OCHER

1.2Relevant identified uses of the substance or mixture and uses advised against

Coloring material for building materials and use of creative hobbies

1.3Manufacturer information

STE DES OCRES DE France
Impasse des Ocriers
84400 – APT – France
www.ocresdefrance.fr

1.3 emergency number

www.centres-antipoison.net 01 40 05 48 48 (centre anti-poison)

Rubrique 2 : IDENTIFICATION OF RISKS

2.1 classification of the substance or mixture in accordance with Regulation (EC) No 1272/2008 and its adjustments.

This substance is not classified as dangerous according to Directive 67/548 / EEC and its amendments.
For more details on health consequences and symptoms, see section 11.

2.2 labeling elements in accordance with Regulation (EC) No 1272/2008 and its adaptations.

No labeling element is required

2.3 Another dangers

The substance does not meet the criteria for PBT or vPvB substances according to Annex XIII of REACH Regulation (CE) No 1907/2006

Rubrique 3: COMPOSITION / INFORMATION ON COMPONENTS

CI : R102
Composition : SiO_2 +Al_2O_3+Fe_2O_3
Substance/ préparation : substance
Numéros cas : no
Numéros einecs : no
To the present knowledge of the supplier, this product does not contain any ingredients that are hazardous to require a statement in this section, in accordance with EU regulations or national regulations.
REACH: the substance is not subject to REACH according to Annex V

Rubrique 4: FIRST AID

Ocre rouge rfles

Transport the person to the fresh air. In case of fainting, place the person in a lateral safety position.
Immediately flush eyes with plenty of water, occasionally lifting the eyelids. Check if the victim wears contact lenses and in this case remove them.
If irritation occurs, consult a doctor.

Rubrique 5: FIRE FIGHTING MEASURES

The substance is not flammable. In case of fire, spray with water (in fog), foam, dry chemical or carbon dioxide.

Rubrique 6: MEASURES TO BE TAKEN IN CASE OF ACCIDENTAL RELEASE

Provide adequate ventilation. Put on appropriate personal protective equipment.
Avoid dispersal and spillage of the spilled product and contact with soil, surrounding aquatic environment, sewers or drains.

Rubrique 7: HANDLING AND STORAGE

No special measures required

Rubrique 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Wash hands, forearms and face after handling product.
Recommended: dust mask
Avoid contact with eyes. Use eye protection in accordance with an approved standard
Personal protective equipment for the body should be selected according to the task to be performed and the risks involved.

Rubrique 9: PHYSICAL AND CHEMICAL PROPERTIES

general informations
Physical state: powder
Color : red
Odor: odorless
PH: 7
Melting point: not available
Bulk density: 508 g / l
Solubility: insoluble

Rubrique 10: STABILITY AND REACTIVITY

The product is stable
Under normal conditions of storage and use, no hazardous decomposition products should appear.

Rubrique 11: TOXICOLOGICAL INFORMATION

Any effects of chronic toxicity or sensitization are virtually excluded by
that ochre is a natural mineral of the earth's surface and, in the dissolved state,
a natural constituent of water in nature.

Rubrique 12: ECOLOGICAL INFORMATION

ochre is, in the solid state, a mineral, natural constituent of the earth. In the dissolved state, the substance is a natural constituent of water in nature. Therefore, adverse effects on the environment can be excluded. ochre can not be biodegraded

Rubrique 13: CONSIDERATIONS RELATING TO ELIMINATION

In general: Check the suitability of the product for reuse. Uncleaned waste and uncleaned packaging must be packed or closed, labeled and disposed of at a destruction or recycling center in accordance with the national

legislation in force. Consult the manufacturer in case of large quantities. If uncleaned empty containers are forwarded, inform the consignee of the possible risks due to the residues of the product. For disposal within the EU, use the waste code in force according to the European Waste List (LED). All waste producers are required, among other things, to classify their waste according to the category and process code of the European Waste List (LED).

To the present knowledge of the supplier, this product is not considered a hazardous waste as defined by EU Directive 91/689 / EEC

Rubrique 14: TRANSPORT

This product is not subject to labeling. No special conditions

Rubrique 15: REGULATORY INFORMATION

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

- Classification and labeling information in section 2:
The following regulations have been taken into account:
- Règlement (CE) n° 1272/2008 modifié par le règlement (UE) n° 487/2013
- Règlement (CE) n° 1272/2008 modifié par le règlement (UE) n° 758/2013
- Règlement (CE) n° 1272/2008 modifié par le règlement (UE) n° 944/2013
- Règlement (CE) n° 1272/2008 modifié par le règlement (UE) n° 605/2014
- Règlement (CE) n° 1272/2008 modifié par le règlement (UE) n° 1297/2014
- Information about the packaging:
No data available.
- Particular dispositions :
No data available.

15.2. Chemical safety assessment

No data available.

Rubrique 16: ANOTHER INFORMATIONS

Abréviations :

ADR : Accord européen relatif au transport international de marchandises Dangereuses par la Route.
IMDG : International Maritime Dangerous Goods.
IATA : International Air Transport Association.
OACI : Organisation de l'Aviation Civile Internationale.
RID : Regulations concerning the International carriage of Dangerous goods by rail.
WGK : Wassergefahrdungsklasse (Water Hazard Class).
PBT : Persistante, bioaccumulable et toxique.
vPvB : Très persistante et très bioaccumulable.
SVHC : Substance of Very High Concern

Historical
Date of publication: April 2018
Date of the previous edition: juillet 2015

Bulk
APOTHECARY

Woodland Green

Safety Data Sheet
Matte Woodland Green Pigment Powder

SECTION 1: Identification

1.1 Product identifier

Product name	Matte Woodland Green Pigment Powder
Product number	color-28
Brand	Bulk Apothecary

1.4 Supplier's details

Name	Bulk Apothecary
Address	115 Lena Dr Aurora OH 44202 United States
Telephone	1-888-728-7612
email	sales@bulkapothecary.com

1.5 Emergency phone number(s)

Domestic: 1-800-633-8253 International: 801-629-0667

SECTION 2: Hazard identification

General hazard statement
Not a hazardous substance or mixture

2.1 Classification of the substance or mixture

GHS classification in accordance with: OSHA (29 CFR 1910.1200)

Not a hazardous substance or mixture.

2.2 GHS label elements, including precautionary statements

Not a hazardous substance or mixture.

2.3 Other hazards which do not result in classification

Not a hazardous substance or mixture.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

1. Cosmeric Powder Colorant
Concentration: Not specified

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

If inhaled	Remove to fresh air immediately. Contact physician if necessary.
In case of skin contact	Removed contaminated clothing and wash with soap and water.
In case of eye contact	Flush immediately with copious amounts of water. Contact physician if necessary.
If swallowed	Drink plenty of water and consult a physician.

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media
Carbon dioxide, dry chemical or foam recommended

5.2 Specific hazards arising from the chemical
This product is not known to present any fire hazard

5.3 Special protective actions for fire-fighters
Fire personel should wear Self-contained breathing apparatus (SCBA) and full protective clothing.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Safety glasses with side shields or goggles and rubber gloves. Provide adequate general mechanical exhaust

6.2 Environmental precautions
Prevent material from contaminating soil or entering sewerage and drainage systems

6.3 Methods and materials for containment and cleaning up
Use appropriate NIOSH/MSHA approved respirator. Wear chemical gloves, goggles, and lab coat. Carefully contain spilled material. Deposit spilled material in appropriate waste container

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Store in a cool, dry place. Keep away from excessive heat. Use in a well ventilated area. Wash hands after use.

7.2 Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in ambient location.

SECTION 8: Exposure controls/personal protection

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection
Safety glasses with side shields or goggles

Skin protection
Wear rubber gloves. Wash hands after use.

Respiratory protection
Use NIOSH/MSHA approved air-purifying respirator to control exposure.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.)	Free Flowing Powder
Odor	Odorless
Odor threshold	
pH	
Melting point/freezing point	
Initial boiling point and boiling range	
Flash point	
Evaporation rate	
Flammability (solid, gas)	
Upper/lower flammability limits	
Vapor pressure	
Vapor density	
Relative density	
Solubility(ies)	
Partition coefficient: n-octanol/water	
Auto-ignition temperature	
Decomposition temperature	
Viscosity	
Explosive properties	
Oxidizing properties	

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable

10.2 Chemical stability

Stable

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity
No data

SECTION 12: Ecological information

Toxicity
No data

SECTION 13: Disposal considerations

Disposal of the product
Dispose of in accordance with all applicable federal, state and local regulations. Material may be sent to an approved landfill or licensed treatment, storage and disposal facility.

SECTION 14: Transport information

DOT (US)
Not regulated

IMDG
Not regulated

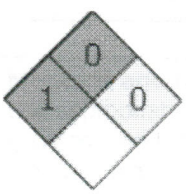
IATA
Not regulated

SECTION 15: Regulatory information

HMIS Rating

Matte Woodland Green Pigment Powder	
HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	

NFPA Rating



SECTION 16: Other information

16.1 Further information/disclaimer

DISCLAIMER: The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of information for their particular purposes. In no event shall Bulk Apothecary be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, whatsoever arising, even if Bulk Apothecary has been advised of the possibility of such damages.

L. CORNELISSEN & SON

Artists' Colourmen

Suppliers of Materials for Painters, Gilders & Printmakers

Safety Data Sheet according to Directive 91/155/EC

Revision Date: June 2016

1) Identification of the substance/preparation and the company

Trade Name: Cornelissen Natural Earth Pigments. Includes: Terre Verte, Caput Mortuum, Green Earth Light, Green Earth Burnt, Indian Red, Golden Ochre, Red Ochre, Yellow Ochre, Pozzuoli Red, Burnt Sienna, Raw Sienna, Burnt Umber, Raw Umber, Raw Umber Greenish, Vandyke Brown, Venetian Red.

Application: Artists' Pigment

Manufacturer/Supplier:

L Cornelissen & Son Ltd
105 Great Russell Street
London WC1B 3RY

Tel: 020 7636 1045
Fax: 020 7636 3655

www.cornelissen.com

2) Composition/Information on ingredients

Ground and purified earth. Natural Iron Oxides.

3) Hazards Identification

Classification of the substance or mixture

Classification under CLP:	This product has no classification under CLP.
Label elements:	This product has no label elements.
Other hazards:	This substance is not identified as a PBT substance..

4) First Aid Measures

Eye contact:	Flush eye with flowing water for 15 minutes.
Skin contact:	Wash with soap & water & rinse thoroughly.
Inhalation:	Remove subject to fresh air.
Ingestion:	If swallowed, dilute with water and induce vomiting.

5) Fire Fighting Measures

Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used.

Special hazards arising from the substance or mixture: None

Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to section 8 of SDS for personal protection details.

Environmental precautions

Environmental precautions: Do not discharge into drains or rivers.

Methods and material for containment and cleaning up

Clean-up procedures: Transfer to a suitable container.

Reference to other sections.

N/A

7) Handling and Storage

Precautions for safe handling

Handling requirements: Usual precautions for nuisance dust should be observed. Avoid the formation or spread of dust in the air. Exhaust ventilation of the area is recommended. In case of release or spillage clean up with wetting of material and avoid dusting.

Conditions for safe storage, including any incompatibilities

Storage conditions: A moderately dry, well ventilated area is considered suitable for handling and storage.

Suitable packaging: Must only be kept in original packaging.

Specific end use(s) Artists' pigment

8) Exposure/Personal Protection

Control Parameters

Workplace exposure limits: Respirable dust

	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	-	-	4 mg/m3	-

Exposure controls

Engineering measures:	Exhaust ventilation of the area recommended.
Respiratory protection:	Respiratory protective device with particle filter.
Hand protection:	Protective gloves.
Eye protection:	Safety glasses. Ensure eye bath is to hand.
Skin protection:	Protective clothing.

9) Physical and chemical Properties

Appearance: Powder

Odour: None

Boiling point: N/A

Melting point: N/A.

Flash point: N/A.

Ph: 6/8

Solubility: Insoluble in water.

Specific gravity: ca. 0.99 gr/cm^3

Flammability: N/A.

Extinguishing media: No restriction

10) Stability and Reactivity

Reactivity:	N/A
Chemical stability:	Stable under normal conditions.
Possibility of hazardous reactions:	N/A
Conditions to avoid	N/A
Incompatible materials	N/A
Hazardous decomposition products:	N/A

11) Toxicological Information

Information on toxicological effects

Symptoms/routes of exposure

Skin contact:	There may be mild irritation at the site of contact.
Eye contact:	There may be irritation and redness.
Ingestion:	There may be irritation of the throat.
Inhalation:	There may be irritation of the throat with a feeling of tightness in the chest.

Oral Toxicity: LD50 (rat)>5g/Kg

12) Ecological Information

Toxicity	N/A
Persistence and degradability	Not biodegradable.
Bioaccumulative potential:	No bioaccumulation potential.
Mobility in soil	Insoluble in water.
Results of PBT and vPvB assessment	
PBT identification:	This substance is not identified as a PBT substance.
Other adverse effects	Negligible ecotoxicity. Discharges to water courses should be avoided to prevent the exclusion of natural light affecting fauna.

13) Disposal Information

Dispose in accordance with all applicable local & national regulations.

14) Transport Information

Transport class:	This product is not classified for transport.

15) Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture:	N/A
Chemical Safety Assessment:	A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

16) Other information

This product should be stored, handled and used in accordance with good hygiene practices and in conformity with any legal regulations.

To best of our knowledge the information contain herein is accurate. However, neither the above supplier assumes any liability whatsoever for the accuracy or completeness of the information herein

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist