



SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME	LINSEED OIL PAINT (MANY COLORS)
PRODUCT DESCRIPTION	ARCHITECTUAL COATING. PAINT
INTENDED USE	FOR INTERIOR AND EXTERIOR PAINTING ON WOOD, CONCRETE, STEEL AND OTHER SUBSTRATES.
COMPANY: COMPANY NAME COMPANY ADDRESS COMPANY PHONE EMERGENCY PHONE FOR INFORMATION ABOUT THIS SDS USE THIS DEPARTMENT EMAIL	HERON PAINT LLC 160 FOSS CREEK CIR #2283 HEALDSBURG CA 95448 1-707-397-0203 LOCAL EMERGENCY ROOM OR 911 IN USA INFO@HERONPAINT.COM

2. HAZARDS IDENTIFICATION

OSHA/HCS STATUS	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).	
CLASSIFICATION OF THE SUBSTANCE OR MIXTURE: Metallic Drier. (Manganese Siccative Mixture Ingredients) Max % of Manganese Siccative in formula: 0.12 wt %	Flammable liquids Skin irritation Serious eye damage Reproductive toxicity Specific target organ toxicity (repeated exposure) Long-term (chronic) aquatic hazard	Category 4 Category 2 Category 1 Category 2 Category 2 Category 2
CLASSIFICATION OF THE SUBSTANCE OR MIXTURE: THE PAINTS WITH TITANIUM DIOXIDE, ZINC OXIDE ARE CLASSIFIED AS:	CARCINOGEN	Category 1A Category 2B
	ACUTE AQUATIC TOXICITY	Category 1
GHS LABEL ELEMENTS HAZARD PICTOGRAMS		

HAZARDS NOT OTHERWISE CLASSIFIED (HNOC)



Risk for spontaneous combustion. Rags, steel wool or waste which absorb linseed oil can spontaneously ignite if improperly discarded. Immediately after use, place rags, steel wool or soaked material in a water filled, sealed and certified disposal container.

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2. HAZARDS IDENTIFICATION (cont)

HAZARD STATEMENTS	SUSPECTED OF CAUSING CANCER. (TITANIUM DIOXIDE) Warning! Hazardous respirable droplets may be formed when sprayed. Do not breath spray or mist. VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS. (ZINC OXIDE)
OTHER LABEL REQUIRED	WARNING This product can expose you to chemicals including Titanium Dioxide Pigment, which is known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov .

3.COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE NAME/ CHEMICAL NAME	CAS No.	WEIGHT-%	GHS CLASSIFICATION	Personal Exposure Limit (PEL)
Metallic Drier (Manganese Sicca- tive Mixture Ingredi- ents)				
2-ethylhexanoic acid, maganese salt (Manganese Sicca- tive Mixture ingre- dient)	15956-58-8	>=0.037-<0.083%	Eye Irrit. 2 H319, Repr. 2 H361 (Oral) (H361d), STOT RE 2 H373 (neurological effects), Aquatic Chronic 2 H411	5 mg/m3(Manga- nese) OSHA Z1 OSHA PO
Naphtha (petroleum), hydrotreated heavy (Manganese Sicca- tive Mixture ingre- dient)	64742-48-9	>=0.015-<0.036%	H226 Flammable liq- uid and vapour - H304 May be fatal if swallowed and en- ters airways. H336:- May cause drowsi- ness or dizziness. - H371 May cause damage to organs (Refer Section SDS 11) - H413 May cause long lasting harmful effects to aquat- ic life. EUHO66: Repeated exposure may cause skin dry- iness or cracking	CAL/OSHA PEL 8-hour TWA 300 ppm (1350 mg/m ³)
2-(2-methoxyethoxy) ethanol (Manganese Sicca- tive Mixture ingre- dient)	111-77-3	>=0.0037-<=0.012%	H361d Suspected of damaging the unborn child.	Not established

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3.(cont) COMPOSITION / INFORMATION ON INGREDIENTS (cont)

SUBSTANCE NAME/ CHEMICAL NAME	CAS No.	WEIGHT-%	GHS CLASSIFICATION	Personal Exposure Limit (PEL)
butyl dihydrogen phosphate <i>(Manganese Sicca- tive Mixture ingre- dient)</i>	1623-15-0	>=0.007-<=0.006%	H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage.	OSHA PEL 1 ppm (5 mg/m ³)
dibutyl hydrogen phosphate <i>(Manganese Sicca- tive Mixture ingre- dient)</i>	107-66-4	>=0.007-<=0.006%	H314 Causes se- vere skin burns and eye damage. H318 Causes serious eye damage. H351 Sus- pected of causing cancer.	OSHA PEL 1 ppm (5 mg/m ³)

SUBSTANCE NAME/ CHEMICAL NAME	CAS No.	WEIGHT-%	GHS CLASSIFICATION	Personal Exposure Limit (PEL)
Linseed Oil	8001-26-1	100%	-	-
Calcium Carbonate	1317-65-3	15-35% (varies with the color)	H350i May cause cancer by inhalation.	15 mg/m ³ (total dust), 5 mg/m ³ (re- spirable fraction)
		VARIOUS COLORS		

SUBSTANCE NAME/ CHEMICAL NAME	CAS No.	WEIGHT-%	GHS CLASSIFICATION	Personal Exposure Limit (PEL)
Titanium Dioxide	13463-67-7	0-30% (varies with the color)	Carcinogenic 2B H361 Suspected of damaging fertility or the unborn child.	15 mg/m ³ (total dust)
Yellow Ochre	14808-60-7	0.1-40%	Carcinogenic 1A	10 mg/m ³ (respirable dust)
Iron Oxide Yellow	20344-49-4	0.1-35%	-	10 mg/ m ³ TWA Total Dust
Nickel Antimony Titanium Yellow Rutile	8007-18-9	0.1-35%	Carcinogenic 1	Antimony and compounds: 0.5 mg/ m ³ Nickel, Metal and insoluble compounds rAS NI): 1 mg/m ³
Iron Oxide Red	1309-37-1	0.1-45%	-	10* mg/m ³ *Fume Long Term Value
Bone Black	8021-99-6	0.1-45%	-	5 mg/m ³ Respirable fraction 15 mg/m ³ Total Dust

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3.(cont) COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE NAME/ CHEMICAL NAME	CAS No.	WEIGHT-%	GHS CLASSIFICATION	Personal Exposure Limit (PEL)
Iron Oxide Black	1317-61-9	0.1-35%	-	5mg/m ³ TWA
Graphite	7782-42-5	0.1-35%	H350 May cause cancer H372 Causes damage to organs through prolonged or repeated exposure if inhaled. May form combustible dust concentrations in the air	10 mg/m ³ respirable dust
Red Hematite (mixture)	Mixture 1317-60-8 16389-88-1 12001-26-2 14808-60-7	0.1-35%	Carcinogenic 1A - - - - Quartz ≤ 4	10mg/m ³ /%SiO ₂ +2 respirable dust
Raw Umber (mixture)	Fe(OH)O 62-76% 20344-49-4 SiO ₂ 15-20% 14808-60-7 MnO ₂ 6.0-9.0% 1313-13-9	0.1-40%	Carcinogenic 1A SiO ₂	SiO ₂ 10 mg/m ³ respirable dust
Cobalt Blue	1345-16-0	0.1-35%	-	0.1 mg/m ³ respirable dust
Phthalo Blue	147-14-8	0.1-25%	-	ACGIH TLV 10 mg/m ³ Nuisance Dust.
Ultramarine Blue	101357-30-6 / 57455-37-5	0.1-30%	-	10 mg/m ³ respirable dust
Chrome Oxide Green	1308-38-9	0.1-35%	-	0.5 mg/m ³ long term exposure 0.5 mg/m ³ (8hr PEL)
Hansa Yellow	6358-31-2	0.1-30%	-	ACGIH TLV 10 mg/m ³ Nuisance Dust.
Bismuth-Vanadate Yellow	14059-33-7	0.5-20%	-	ACGIH TLV 10 mg/m ³ Nuisance Dust
Zinc Oxide	1314-13-2	1-35%	Aquatic Hazard (Acute) –Category 1; Aquatic Hazard (Long-Term) – Category 1	15 mg/m ³ respirable dust

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3.(cont) COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE NAME/ CHEMICAL NAME	CAS No.	WEIGHT-%	GHS CLASSIFICATION	Personal Exposure Limit (PEL)
Raw Sienna	Mixture 1333-86-4 1309-37-1 1317-65-3 1313-13-9 14808-60-7	0.1-25%	Carcinogenicity - Category 1B H350 May cause cancer (Inhalation).	5 mg/m ³ respirable dust. 15 mg/m ³ total dust.
Burnt Sienna	1317-63-1 14807-96-6 546-93-0 7727-43-7 1309-37-1 14808-60-7	0.1-30%	Carcinogenicity - Category 1B H350 - May cause cancer (Inhalation).	5 mg/m ³ respirable dust. 15 mg/m ³ total dust.
Iron Oxide Brown (mixture)	MIXTURE: CAS #1309-37-1; CAS #1317-61-9; CAS # 20344-49-4	0.1-35%	-	15 mg/m ³ TWA Total Dust 5 mg/m ³ Respirable Dust
Burnt Umber	Mixture 12713-03-0 14808-60-7 20344-49-4 1313-13-9	0.1-30%	Carcinogen Category 1A (H350) May cause cancer (inhalation). H372- Causes damage to organs (lung/respiratory system) through prolonged or repeated exposure (inhalation)	10 mg/m ³ respirable dust. 30 mg/m ³ total dust.

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SECTION 4. FIRST AID MEASURES

General Advice	If symptoms persist, call a physician. Show this safety sheet.
Eye Contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If irritation persists: seek medical advice.
Skin Contact	If on skin; Wash with plenty of water. Get medical advice/attention if you feel unwell. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.
Inhalation	Not relevant, except when spraying product. Move to fresh air if irritation occurs.
Ingestion	Rinse mouth well and drink plenty of water. Do not induce vomiting. Get medical attention if any discomfort continues.
Protection of First-Aiders	Use personal protective equipment.
Most Important Symptoms/Effects	May cause allergic skin reaction in sensitive individuals. Ingestion of large amount of product can cause nausea, vomiting and diarrhea.
Notes to Physician	Treat Symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Foam, dry powder or water. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.	
Protective Equipment And Precautions For Firefighters	As in any fire, wear self-contained breathing apparatus pressure demand, MSHA/NIOSH (approved or equivalent) and full protective gear.	
Special Hazards Arising From the Chemical	Can self-ignite at 649°F. Rags and other porous materials can cause increased heating of the material until it ignites.	
Sensitivity To Mechanical Impact	No	
Sensitivity to Static Discharge	No	
Flash Point Data	Flash Point (°F)	199.94
	Flash Point (°C)	93.3
	Method	PMCC
Flammability Limits in Air	Lower flammability limit:	not available
	Upper flammability limit:	not available

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SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Use personal protective equipment. Remove all sources of ignition. Avoid contact with skin, eyes and clothing.
For emergency responders	For small emissions: Use protective equipment as indicated in Section 8 For higher emissions: Use chemically protective clothing and breathing apparatus.
Environmental Precautions	Do not allow material to contaminate ground water system. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Local authorities should be advised if significant spillages cannot be contained.
Methods for cleaning up	Dam up. Contain spill with vermiculite or sand, earth or other inert material and place in sealable container. Dispose of collected material as hazardous waste. See section 13.

SECTION 7. HANDLING AND STORAGE

Handling	Ensure good ventilation. Avoid contact with skin, eyes and clothing. Keep away from open flames, hot surfaces and sources of ignition.
Storage	<p>Keep containers tightly closed in a dry, cool and well ventilated place. Keep away from heat, sparks and open flames. Keep in properly labeled container. Keep out of the reach of children.</p> <p>Danger - Rags, steel wool or waste soaked with this product may spontaneously catch fire if improperly discarded. Immediately after use, place rags, steel wool or waste in a sealed water-filled metal container.</p> <p>Avoid contact with silicon.</p>

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical name	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
2-ethylhexanoic acid, manganese salt (Manganese Siccative Mixture ingredient) CAS-No 15956-58-8	C	5 mg/m ³ (manganese)	OSHA z-1
	C	5 mg/m ³ (manganese)	OSHA PO
	TWA	1 mg/m ³	NIOSH REL
	ST	3 mg/m ³	NIOSH REL
Naphtha (petroleum), hydrotreated heavy (Manganese Siccative Mixture ingredient) CAS-No 64742-48-9	TWA	500 ppm 2,000 mg/m ³	OSHA Z-1
	TWA	400 ppm 1,600 mg/m ³	OSHA PO

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SECTION 8. (cont.) EXPOSURE CONTROLS / PERSONAL PROTECTION

dibutyl hydrogen phosphate (Manganese Siccative Mixture ingredient) CAS-No 107-66-4	TWA (inhalable fractions and vapor)	5 mg/m ³	ACGIH
	TWA	1 ppm 5 mg/m ³	NIOSH REL
	ST	2 ppm 10 mg/m ³	NIOSH REL
	TWA	1 ppm 5 mg/m ³	OSHA Z-1
	STEL	2 ppm 10 mg/m ³	OSHA PO
	TWA	1ppm 5 mg/m ³	OSHA PO
Chemical name	ACGIH TLV	OSHA PEL	
The following substance exposure controls/personal protection is for substances in POWDER form.			
Titanium Dioxide	10 mg/m ³	10mg/m ³ (total dust)	
Chalk (calcium carbonate)	10 mg/m ³	15 mg/m ³ (total dust), 5 mg/m ³ (respirable fraction) As Particulates not otherwise regulated.	
Yellow Ochre	max: 10 mg/m ³ (total)(mag- nesite)	10 mg/m ³ (respirable dust)	
Red Hematite Iron Oxide Quartz Talc Magnesium Carbonate Inert or Nuisance Dust	5 mg/m ³ 0.025 mg/m ³ 2 mg/m ³ none 3 mg/m ³	5 mg/m ³ 10mg/m ³ /%SiO ₂ +2 none 15 mg/m ³ Total Dust 15 mg/m ³ Total Dust	
Chrome Oxide Green	0.5 mg/ m ³	0.5 mg/ m ³	
Bone Black	3 mg/m ³ respirable fraction 10 mg/m ³ Total dust	5 mg/m ³ Respirable fraction 15 mg/m ³ Total Dust	
Iron Oxide Black	10 mg/m ³ TWA	15 mg/m ³ TWA	
Graphite	Silica TLV, 0.025mg/m ³ , TWA, Respirable	TWA, 30mg/m ³ / % SiO ₂ + 2, Table Z-3 Mineral Dusts	
Iron Oxide Red	-	15 mg/m ³ TWA Total Dust 5 mg/m ³ Respirable Dust	
Burnt Umber	0.025 mg/m ³ Respirable Dust	10mg/m ³ /%SiO ₂ +2 Respirable Dust 30 mg/m ³ Total Dust	
Raw Sienna	Quartz 0.025 mg/m ³	250 mppcf/%SiO ₂ +5, 10mg/m ³ /%SiO ₂ +2	
Hansa Yellow	10 mg/m ³ Nuisance Dust.	N/E	

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SECTION 8 (cont.). EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical name	ACGIH TLV	OSHA PEL
Zinc Oxide	-	15 mg/m ³ TWA Total Dust 5 mg/m ³ Respirable Dust
Iron Oxide Yellow	-	10 mg/m ³ TWA Total Dust
Nickel Antimony Titanium Yellow	ANTIMONY AND COM- POUNDS 0.5 mg/m ³ NICKEL METAL AND INSOL- UBLE COMPOUNDS (AS NI) 0.2 mg/m ³	ANTIMONY AND COMPOUNDS 0.5 mg/m ³ NICKEL METAL AND INSOLUBLE COM- POUNDS (AS NI) 1 mg/m ³
Raw Umber	0.025 mg/m ³ Respirable Dust	SiO ₂ 10 mg/m ³ respirable dust
Phthalo Blue	10 mg/m ³ Nuisance Dust.	N/E
Cobalt Blue	0.02 mg/m ³ TWA	0.1 mg/m ³
Ultramarine Blue	10 mg/m ³ Nuisance Dust	N/E
Bismuth-Vanadate Yellow	10 mg/m ³ Nuisance Dust	N/E
Burnt Sienna	Quartz 0.025 mg/m ³	250 mppcf/%SiO ₂ +5, 10mg/m ³ /%SiO ₂ +2
Iron Oxide Brown		15 mg/m ³ TWA Total Dust 5 mg/m ³ Respirable Dust

Legend

ACGIH - American Conference of Governmental Industrial Hygienists Exposure Limits

OSHA - Occupational Safety & Health Administration Exposure Limits

N/E - Not Established. STOT - Specific Target Organ Toxicity

TWA - Time weighted average. TLV - Threshold limit value. ST - Short Term. C- Ceiling.

Engineering Measures	None
Personal Protective Equipment Eye/Face Protection Skin Protection Respiratory Protection	Wear tight fitting safety goggles when there is risk of airborne spray. Long sleeved clothing. Protective gloves. In spraying operations where exposure limits are exceeded, use a NIOSH approved respirator that has been selected by a technically qualified person for the specific work conditions.
Hygiene Measures	Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Wash thoroughly after handling. When using do not eat, drink or smoke.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid
Odor	Characteristic linseed oil
Odor Threshold	No information available
Density (lbs/gal)	~18
Specific Gravity	No information available
pH	No information available
Viscosity (cps)	No information available
Solubility(ies)	No information available
Water solubility	Linseed oil will only emulsify in water. Low water solubility <1 g/l. This product is partly soluble in several solvents, but it is not recommended to mix with organic solvents.
Evaporation Rate	No information available
Vapor pressure @20°C (kPa)	No information available
Vapor density	No information available
Wt. % Solids	100
Vol. % Solids	100
Wt. % Volatiles	0
Vol. % Volatiles	0
VOC Regulatory Limit (g/L)	< 50 g/l
Boiling Point (°F)	>500
Boiling Point (°C)	>300
Freezing Point (°F)	No information available
Freezing Point (°C)	No information available
Flash Point (°F)	>390
Flash Point (°C)	>200
Method	PMCC
Flammability (solid, gas)	No information available
Upper flammability limit:	No information available
Lower flammability limit:	No information available
Autoignition Temperature (°F)	No information available
Autoignition Temperature (°C)	No information available
Decomposition Temperature (°F)	No information available
Decomposition Temperature (°C)	No information available
Partition coefficient	No information available

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SECTION 10. STABILITY AND REACTIVITY

Reactivity	This product is not reactive during normal handling and storage conditions.
Chemical Stability	Stable at normal storing conditions.
Conditions to avoid	Do not store above normal room temperature.
Incompatible Materials	Strong acids, bases and oxidizing agents. Avoid contact with silicon.
Hazardous Decomposition Products	None except for colors containing ultramarine blue pigment. This pigment can emit hydrogen sulphide in contact with acids. Chrome (III) oxide can transform to chro (VI) when heated. Chrome (VI) is a strong sensitizer and carcinogen.
Possibility of hazardous reactions	None under normal conditions of use.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure Principal Routes of Exposure:	Eye contact, skin contact and mist inhalation.
Acute Toxicity Short term exposure Linseed oil:	rat >15000 mg/kg body weight
Ingestion:	Product is probably a mild laxative and ingestion of small amounts will not give any symptoms.
Inhalation:	May be harmful if inhaled when sprayed. Causes respiratory tract irritation.
Eye Contact	Causes eye irritation
Skin Contact:	Could cause skin irritation
Long term exposure	
Ingestion	Not documented. Most likely a laxative.
Inhalation:	Only a risk when spraying the product. If sprayed the product could cause minor irritation to respiratory tracts and ethanol in the product can affect the central nervous system. This product consumes oxygen when drying and insufficient ventilation could cause a headache.
Eye Contact:	Repeated exposure may cause eye irritation.
Skin Contact:	Repeated exposure may irritate skin/cause atopic eczema but during normal use the risk is low.
Sensitization	May cause an allergic skin reaction
Neurological Effects	No known effects
Mutagenic Effects	No known effects
Reproductive Effects	No known effects
Developmental Effects	No known effects
Target Organ Effects	No known effects
STOT - repeated exposure	No known effects

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SECTION 11. (cont) TOXICOLOGICAL INFORMATION

STOT - single exposure	No known effects
Other adverse effects	No known effects
Aspiration Hazard	No known effects
Ecotoxicity Effects	The environmental impact of this product has not been full investigated.
Acute Toxicity to Fish	No mixture information available. See Zinc Oxide component below
Acute Toxicity to Aquatic Plants	No mixture information available. See Zinc Oxide component below
Persistence / Degradability	This product is not readily biodegradable
Bioaccumulation	This product will not bioaccumulate
Mobility in Environmental Media	This product is not water soluble therefore it is considered as immobile within the soil profile.
Ozone	No information available

Acute Toxicity

Component Information	LD50 Oral	LD50 Dermal	LC50 Inhalation
Linseed Oil	> 15000 mg/kg body weight: rat	not listed	LC50 /4h) < 20 mg/l (IMO). Only a risk when spraying the product.
Titanium Dioxide	> 5000mg/kg body weight: rat	not listed	6,82mg/L (MMAD=1.55 µm, GSD=1.70 µm)
Zinc Oxide	15000 mg/kg body weight: rat	not listed	>5.7mg/L 4 hour exposure
Calcium Carbonate	6450 mg/kg body weight: rat	not listed	not listed
Yellow Ochre Quartz Iron Oxide	> 5000 mg/kg > 10000 mg/kg: rat	> 5000 mg/kg not listed	not listed
Yellow Iron Oxide	not listed	not listed	not listed
Iron Oxide Red	> 5,000 mg/kg	not listed	5 mg/L 4 hour exposure
Iron Oxide Black	> 5000 mg/kg	not listed	not listed
Bone Black	> 5000 mg/kg	not listed	not listed
Red Hematite	> 5000 mg/kg	not listed	>7000 mg/lit (Guinea :Pig
Burnt Umber	> 5000 mg/kg	> 5000 mg/kg	not listed
Raw Umber	>22,500 mg/kg Silica >15,000 mg/kg Iron Oxide	not listed	not listed
Chrome Oxide Green	not listed	not listed	not listed

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SECTION 11 (cont.). TOXICOLOGICAL INFORMATION

Component Information	LD50 Oral	LD50 Dermal	LC50 Inhalation
Cobalt Blue	> 10000 mg/kg: rat	not listed	not listed
Burnt Sienna	> 10000 mg/kg: rat Iron Oxide > 5000 mg/kg Quartz	Iron Oxide not listed > 5000 mg/kg Quartz	not listed
Raw Sienna	> 5000 mg/kg Quartz > 10000 mg/kg Iron Oxide	>5000 mg/kg Quartz Iron Oxide not listed	not listed
Nickel Antimony Titanium Yellow	> 10000 mg/kg: rat	not listed	not listed
Ultramarine Blue	> 10000 mg/kg: rat	not listed	not listed
Iron Oxide Brown	> 5,000 mg/kg: rat	not listed	not listed
Graphite	> 2000 mg/kg;	not listed	> 2000 mg/m ³ ;
Bismuth Vanadate Yellow	> 5000 mg/kg	not listed	>5.15 mg/l OECD
2-ethylhexanoic acid, manganese salt (Manganese Siccative Mixture ingredient)CAS-No 15956-58-8	not listed	eye irritation	not listed
Naphtha (petroleum),hydrotreated heavy (Manganese Siccative Mixture ingredient) CAS-No 64742-48-9	no acute oral toxicity	Extremely corrosive and destructive to tissue	not listed
dibutyl hydrogen phosphat (Manganese Siccative Mixture ingredient) CAS-No 107-66-4	not listed	skin irritation Causes serious eye damage	not listed
butyl dihydrogen phosphat	not listed	Corrosive after 1 to 4 hours of exposure.	not listed

SECTION 12. ECOLOGICAL INFORMATION

Component Information	
Zinc Oxide	
Acute Toxicity to Fish	Value: 1 mg/l Species: Rainbow trout Duration 72 hours
Acute Toxicity to Aquatic Plants	Value: < 1 mg/l Species: Green algae Duration: 72 hours
Acute Toxicity to Aquatic Invertebrates	Value: 25 mg/l Species: Daphnia magna Duration: 48 hours
Persistence and degradability	This product is not readily biodegradable. This substance is very dangerous to aquatic organisms.
Bioaccumulation	Zinc has moderate to high bioaccumulation in aquatic organisms but gives no biomagnification in the food chain

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SECTION 12. (cont) ECOLOGICAL INFORMATION

Mobility in Environmental Media	This product is not water soluble therefore it is considered as immobile in the soil profile
Ozone	No information available
Other adverse effects	This product is classified as toxic to aquatic organisms, may cause adverse effects in the aquatic environment.
Component Information	
Metallic Drier : Manganese	
Ecotoxicology Assessment	Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.
Persistence and degradability	No data available
Mobility in soil	No data available
Ozone-Depletion Potential	Regulations 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class 1 Substances Remarks: This product neither contains, nor was manufactured with a Class 1 or Class II ODS as defined by the US Clear Air Act Section 602 (40 CFR 82, Subpt. A, App. A + B).

SECTION 13. DISPOSAL CONSIDERATIONS

Waste Disposal Method	Product is considered hazardous waste. Dispose of in accordance with federal, state, and local regulations. Local requirements may vary, consult your sanitation department or state-designated environmental protection agency for more disposal options.
Empty Container Warning	Emptied containers may retain product residue. Follow label warnings after container is emptied.




SECTION 14. TRANSPORT INFORMATION

DOT	
Proper Shipping Name	PAINT
Hazard Class	9 (ZINC OXIDE)
UN-No.	3077 (ZINC OXIDE)
Packing Group	III
Description	DANGEROUS TO THE ENVIRONMENT
ICAO / IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ZINC OXIDE)
IMDG / IMO	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ZINC OXIDE)

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SECTION 15. REGULATORY INFORMATION

International Inventories	
TSCA: United States	Yes - All components are listed or exempt.
DSL: Canada	Yes - All components are listed or exempt.
Federal Regulations	
Ingredient	
Zinc Oxide CAS # 1314-13-2	
SARA 311/312 hazardous categorization	Acute: YES
OSHA Hazardous Substance	This material is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.
Ingredient	
Nickel Antimony Titanium Yellow Rutile CAS # 8007-18-9	
OSHA Hazardous Substance	This material is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

California Proposition 65	
WARNING  Nickel Antimony Titanium Yellow Rutile CAS # 8007-18-9	WARNING: This product contains a chemical known to the State of California to cause cancer. This product can expose you to chemicals including NICKEL COMPOUND, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov .
WARNING  2-ethoxyethanol, 2-methoxyethanol	WARNING: This product can expose you to chemicals including 2-ethoxyethanol, 2-methoxyethanol, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov .
WARNING  Quartz	WARNING: Crystalline silica (quartz) (airborne particles of respirable size) is classified as a substance known to the State of California to be a carcinogen.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)
 This product contains the following HAPs

Chemical Name	CAS No.	Weight-%	Hazardous Air Pollutant
Nickel Compounds Antimony Compounds Nickel Antimony Titanium Yellow Rutile	# 8007-18-9	0.1-35 wt %	x

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SECTION 15. (CONT) REGULATORY INFORMATION

Cobalt Compounds <i>Cobalt Blue</i>	#1345-16-0	0.1-35 wt %	x
2-ethylheanoic acid, manganese salt	#15956-58-8	>=0.037-<0.083 wt %	x
2-(2-methoxyethoxy) ethanol	#111-77-3	>=0.0037-<=0.012 wt %	x

<u>State Right-to-Know</u>				
Chemical name	Massachusetts	New Jersey	Pennsylvania	Rhode Island
Titanium White	x	x	x	x
Zinc Oxide	x	x	x	x
Calcium Carbonate	x	x	x	x
Cobalt Blue/Cobalt Compounds (CAS 7440-48-4)	x	x (500 lbs)	x	x

SECTION 16. OTHER INFORMATION

WARNING! If you scrape, sand, or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

Contains a drying oil which may release small amounts of hexanal and other higher molecular weight aldehyde vapors during drying and curing. Potential Hazard: • Hexanal and other higher molecular weight aldehyde vapors may be released during drying and curing. Potential Health Effects: • Causes nose and throat irritation. Precautionary Information: • Provide fresh air ventilation during application, drying, and curing. • Maintain flow of fresh air until all vapors (odors) are gone.

HERON LINSEED OIL PAINT

SECTION 16. OTHER INFORMATION

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END OF SAFETY DATA SHEET