

**MATERIAL SAFETY DATA SHEET****824-1803 COLORTREND® RAW SIENNA**

degussa.

creating essentials

Material no.		Version	<b>2.2 / US</b>
Specification	<b>139897</b>	Revision date	<b>08/02/2007</b>
Order Number		Print Date	<b>08/03/2007</b>
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**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING****Product information**

Trade name : 824-1803 COLORTREND® RAW SIENNA  
Use of the Substance / : Non-aqueous colorant  
Preparation  
Company : Degussa Corporation  
379 Interpace Parkway  
Parsippany, NJ 07054  
USA

Telephone : 973-541-8000

Telefax : 973-541-8040

**US: CHEMTREC EMERGENCY NUMBER** : 800-424-9300

**CANADA: CANUTEC EMERGENCY NUMBER** : 613-996-6666

Product Regulatory Services : 973-541-8060

**2. HAZARDS IDENTIFICATION****\*\*\* EMERGENCY OVERVIEW \*\*\***

**Form-paste**    **Color-brown**    **Odor-Petroleum distillate odor.**

Combustible liquid and vapor.  
May cause eye, skin and respiratory tract irritation.

**POTENTIAL HEALTH EFFECTS****Eye contact**

According to test results on similar colorant base mixtures, this product is classified as a moderate eye irritant. May cause tearing, reddening and/or swelling.

**Skin Contact**

Prolonged or repeated contact may result in defatting and drying of the skin causing skin irritation and dermatitis (rash).  
Moderate irritant according to test results on similar base mixtures.

**Inhalation**

Possibly irritating.  
Excessive inhalation of solvent vapors may cause nasal and respiratory irritation and central nervous system effects including dizziness, weakness, fatigue, nausea, headache, possible unconsciousness and even death.

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**Ingestion**

May cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

**Chronic Health Hazard**

Health studies have shown that many petroleum hydrocarbons pose potential human health risks which may vary from person to person. As a precaution, exposure to liquids, vapours, mists or fumes should be minimized.

Short term exposures to talc may cause lung irritation. Long term excessive exposure to talc dust may cause talcosis, a pulmonary fibrosis which in turn may lead to severe and permanent damage to the lungs. NTP Toxicology and Carcinogenesis Studies of Talc revealed that there is some evidence of carcinogenic activity in male rats and clear evidence of carcinogenic activity in female rats. There was no evidence of carcinogenic activity in male or female mice.

Prolonged inhalation of iron oxide dust is known to produce a condition known as siderosis. On X-rays it appears to be a benign pneumoconiosis and is not associated with pulmonary fibrosis or disability unless there is concurrent exposure to other fibrosis producing materials such as silica. Overexposure to crystalline silica dust causes lung effects. There is sufficient evidence in humans for the carcinogenicity of inhaled crystalline silica (IARC 1, OSHA).

Chronic inhalation of crystalline silica dust may cause kidney disease, auto-immune disease, and lymph node effects in humans.

On the basis of extensive animal testing, C.I. Pigment Orange 5 should be considered an animal carcinogen by ingestion. It has also been determined to cause mutagenic effects in tests with bacteria both with and without activation. Liver effects have also been observed with animals. In general, uncorroborated case reports and in vitro studies, such as Ames tests, are useful pieces of information but are not definitive findings of hazard. C.I. Pigment 5 has been reported to show a positive Ames test and thereby may be characterized as an in vitro mutagen.

Because this product is a free-flowing liquid or paste, dust inhalation is not an expected route of exposure.

**3. COMPOSITION/INFORMATION ON INGREDIENTS****Information on ingredients / Hazardous components**

Iron Oxide			
CAS-No.	1309-37-1	Percent (Wt./ Wt.)	30 - 60 %
Stoddard solvent; Low boiling point naphtha - unspecified			
CAS-No.	8052-41-3	Percent (Wt./ Wt.)	10 - 30 %
Talc, Magnesium silicate hydrate			
CAS-No.	14807-96-6	Percent (Wt./ Wt.)	10 - 30 %
Distillates (petroleum), hydrotreated light; Kerosine - unspecified			
CAS-No.	64742-47-8	Percent (Wt./ Wt.)	1 - 5 %
Manganese trioxide			
CAS-No.	1317-34-6	Percent (Wt./ Wt.)	1 - 5 %
Silica, crystalline (quartz)			
CAS-No.	14808-60-7	Percent (Wt./ Wt.)	1 - 5 %
C.I. Pigment Orange 5			
CAS-No.	3468-63-1	Percent (Wt./ Wt.)	0.1 - 1 %

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**Other information**

This material is classified as hazardous under OSHA regulations.

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**4. FIRST AID MEASURES**

**Inhalation**

If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If unconscious, evaluate the need for artificial respiration. Get immediate medical attention.

**Skin contact**

Remove contaminated clothing/shoes. Flush skin with water. Follow by washing with soap and water. If symptoms develop or persist, obtain medical attention. Wash clothing before reuse.

**Eye contact**

In case of contact, immediately flush eyes with plenty of water. Obtain medical attention if irritation develops.

**Ingestion**

If swallowed, do NOT induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

Aspiration of material into the lungs may cause chemical pneumonitis (damage to lungs) which may be fatal.

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**5. FIRE-FIGHTING MEASURES**

Flash point 38.33 °C , 101 °F  
Method: Pensky-Martens C.C.

OSHA Flammability Classification Combustible Liquid

**Suitable extinguishing media**

Use water spray or fog, foam, dry chemical or CO2.

**Specific hazards during fire fighting**

Combustible liquid. Vapors can travel to a source of ignition and flash back. Explosive mixtures may occur at temperatures at or above the flashpoint.

**Further information**

As in any fire, wear self-contained positive-pressure breathing apparatus, (MSHA/NIOSH approved or equivalent) and full protective gear. Containers can build up pressure if exposed to heat (fire). Cool with water spray.

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**6. ACCIDENTAL RELEASE MEASURES****Additional advice**

Absorb spill with inert material, then place in a chemical waste container. After removal, flush contaminated area with water and collect for disposal. Clean up spills immediately. Remove sources of ignition and ventilate area. Use a respirator and other protective equipment as outlined in Section 8. Obey relevant local, state, provincial and federal laws and regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil.

**7. HANDLING AND STORAGE****Handling****Safe handling advice**

Keep away from heat. Keep away from sparks, flames and other sources of ignition. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use with adequate ventilation. The need for grounding and bonding of containers in accordance with OSHA 29 CFR 1910.106 and NFPA 77 should be assessed for all product transfers. Follow all MSDS/label precautions even after the container is emptied because it may retain product residues. Wash thoroughly after handling.

**Storage****Requirements for storage areas and containers**

Keep in a dry, cool place.

Keep container closed when not in use.

Residual vapors might explode on ignition; do not apply heat, cut, drill, grind or weld on or near this container.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Component occupational exposure guidelines****• Stoddard solvent; Low boiling point naphtha - unspecified**

CAS-No. 8052-41-3

Control parameters 100 ppm  
500 ppm  
2900 mg/m<sup>3</sup>  
100 ppm  
525 mg/m<sup>3</sup>

Time Weighted Average (TWA):(ACGIH)  
PEL:(OSHA Z1)

Time Weighted Average (TWA)  
Permissible Exposure Limit (PEL):(US CA  
OEL)

**• Talc, Magnesium silicate hydrate**

CAS-No. 14807-96-6

2 mg/m<sup>3</sup>  
Respirable fraction.

Time Weighted Average (TWA):(ACGIH)

The value is for particulate matter containing no asbestos and <1% crystalline silica.

2 mg/m<sup>3</sup>

Time Weighted Average (TWA)  
Permissible Exposure Limit (PEL):(US CA  
OEL)

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Respirable dust.

20millions of particles  
per cubic foot of air  
Time Weighted Average (TWA):(Z3)

2.4millions of particles  
per cubic foot of air  
Time Weighted Average (TWA):(Z3)

Respirable.

The value is calculated from a specified equation using a value of 100%. Lower values of % will give higher exposure limits. See regulation for specific equation.

0.1 mg/m3  
Time Weighted Average (TWA):(Z3)

Respirable.

The value is calculated from a specified equation using a value of 100%. Lower values of % will give higher exposure limits. See regulation for specific equation.

0.3 mg/m3  
Time Weighted Average (TWA):(Z3)

Total dust.

The value is calculated from a specified equation using a value of 100%. Lower values of % will give higher exposure limits. See regulation for specific equation.

1 mg/m3  
Time Weighted Average (TWA):(ACGIH  
NIC)

Respirable fraction.

(ACGIH NIC)

Respirable fraction.

Listed.

• **Silica, crystalline (quartz)**

CAS-No. 14808-60-7

0.05 mg/m3  
Respirable particles.  
Time Weighted Average (TWA):(ACGIH)

0.1 mg/m3  
Time Weighted Average (TWA)  
Permissible Exposure Limit (PEL):(US CA  
OEL)

Respirable dust.

0.3 mg/m3  
Time Weighted Average (TWA)  
Permissible Exposure Limit (PEL):(US CA  
OEL)

Total dust.

2.4millions of particles  
per cubic foot of air  
Time Weighted Average (TWA):(Z3)  
Respirable.

The value is calculated from a specified equation using a value of 100%. Lower values of % will give higher exposure limits. See regulation for specific equation.

0.1 mg/m3  
Time Weighted Average (TWA):(Z3)

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Respirable.

The value is calculated from a specified equation using a value of 100%. Lower values of % will give higher exposure limits. See regulation for specific equation.

0.3 mg/m<sup>3</sup>

Time Weighted Average (TWA):(Z3)

Total dust.

The value is calculated from a specified equation using a value of 100%. Lower values of % will give higher exposure limits. See regulation for specific equation.

0.025 mg/m<sup>3</sup>

Time Weighted Average (TWA):(ACGIH)

Respirable fraction.

(ACGIH)

Respirable fraction.

Listed.

- **Iron Oxide**

CAS-No.

1309-37-1

10 mg/m<sup>3</sup>

PEL:(OSHA Z1)

Fume.

5 mg/m<sup>3</sup>

Time Weighted Average (TWA)

Permissible Exposure Limit (PEL):(US CA OEL)

Fume.

5 mg/m<sup>3</sup>

Time Weighted Average (TWA)

Permissible Exposure Limit (PEL):(US CA OEL)

Respirable fraction.

10 mg/m<sup>3</sup>

Time Weighted Average (TWA)

Permissible Exposure Limit (PEL):(US CA OEL)

Total dust.

5 mg/m<sup>3</sup>

Time Weighted Average (TWA):(ACGIH)

Respirable fraction.

(ACGIH)

Respirable fraction.

Listed.

- **Manganese trioxide**

CAS-No.

1317-34-6

5 mg/m<sup>3</sup> as Mn

Ceiling Limit Value:(OSHA Z1)

0.2 mg/m<sup>3</sup> as Mn

Time Weighted Average (TWA)

Permissible Exposure Limit (PEL):(US CA OEL)

0.2 mg/m<sup>3</sup> as Mn  
as Mn

Time Weighted Average (TWA):(ACGIH)

(ACGIH)

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Listed.

**Other information**

The exposure limit for iron oxide is for dust and fume as Fe.  
The exposure value for crystalline silica is for the respirable fraction.

**Engineering measures**

Use explosion-proof ventilation equipment.

**Personal protective equipment**

**Respiratory protection**

A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.

**Hand protection**

Use impermeable gloves.

**Eye protection**

Chemical resistant goggles must be worn.

**Skin and body protection**

A safety shower and eye wash fountain should be readily available.  
To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance**

Form	paste
Color	brown
Odor	Petroleum distillate odor.

**Safety data**

Boiling point/range	> 149 °C
Flash point	38.33 °C Method: Pensky-Martens C.C.
Relative density	1.6
Solubility/qualitative	Solubility in water: Slight.
Viscosity, dynamic	95 - 115 KU (25 °C)

**Solvents and Volatiles Data**

% VOC (gm/l)	257.89
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Evaporation rate                      Slower than butyl acetate

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**10. STABILITY AND REACTIVITY**

Conditions to avoid                      Avoid high temperatures and sources of ignition.

Materials to avoid                        oxidizing substances

   Ethylene oxide and guanidinium perchlorate (incompatible with iron oxide.)

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**11. TOXICOLOGICAL INFORMATION**

Component Acute oral toxicity	Iron Oxide 1309-37-1 LD50 Rat: > 5000 mg/kg
	Stoddard solvent; Low boiling point naphtha - unspecified 8052-41-3 LD50 Rat: > 5000 mg/kg
	Distillates (petroleum), hydrotreated light; Kerosine - unspecified 64742-47-8 LD50 Rat: > 15000 mg/kg
	C.I. Pigment Orange 5 3468-63-1 LD50 Rat: > 2000 mg/kg
Component Acute inhalation toxicity	Stoddard solvent; Low boiling point naphtha - unspecified 8052-41-3 LC50 Rat: > 5500 mg/m3 / 4 h
	Distillates (petroleum), hydrotreated light; Kerosine - unspecified 64742-47-8 LC50 Rat: > 14100 mg/m3 / 4 h
Component Acute dermal toxicity	Stoddard solvent; Low boiling point naphtha - unspecified 8052-41-3 LD50 Rabbit: > 3000 mg/kg
	Distillates (petroleum), hydrotreated light; Kerosine - unspecified 64742-47-8 LD50 Rabbit: > 2000 mg/kg
Component Repeated dose toxicity	Talc, Magnesium silicate hydrate 14807-96-6 Inhalation Rat(male) Testing period: 791 d LOAEL: 0.006 mg/l



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target organ/effect: Lungs

Component carcinogenicity  
assessmentTalc, Magnesium silicate hydrate  
14807-96-6

Short term exposures to talc may cause lung irritation. Long term excessive exposure to talc dust may cause talcosis, a pulmonary fibrosis which in turn may lead to severe and permanent damage to the lungs. NTP Toxicology and Carcinogenesis Studies of Talc revealed that there is some evidence of carcinogenic activity in male rats and clear evidence of carcinogenic activity in female rats. There was no evidence of carcinogenic activity in male or female mice.

Silica, crystalline (quartz)  
14808-60-7

Contains a component which is classified as an IARC Group 1 carcinogen (carcinogenic to humans).

C.I. Pigment Orange 5  
3468-63-1

On the basis of extensive animal testing, C.I. Pigment Orange 5 should be considered an animal carcinogen by ingestion. It has also been determined to cause mutagenic effects in tests with bacteria both with and without activation. Liver effects have also been observed with animals. In general, uncorroborated case reports and in vitro studies, such as Ames tests, are useful pieces of information but are not definitive findings of hazard. C.I. Pigment 5 has been reported to show a positive Ames test and thereby may be characterized as an in vitro mutagen.

Component General Toxicity  
InformationSilica, crystalline (quartz)  
14808-60-7

Chronic inhalation of crystalline silica dust may cause kidney disease, auto-immune disease, and lymph node effects in humans. Crystalline silica has shown positive results in "in vitro" screening tests for mutagenicity.

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**12. ECOLOGICAL INFORMATION**

General Ecological Information No ecotoxicological studies are available.

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**13. DISPOSAL CONSIDERATIONS****WASTE DISPOSAL**

Advice on disposal

Waste must be disposed of in accordance with federal, state, provincial and local regulations. CONTAINER DISPOSAL: Empty containers by removing the top and inverting to allow all free-flowing product to drain. To meet regulatory criteria, the container is considered empty when less than 3% remains in the container. Additional special handling is not typically required and the empty container can be discarded with other non-

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hazardous trash. Note: Local disposal regulations may be more stringent and require additional restrictions or precautions. Customers should check with their local disposal company, municipal or state authority. Recycle of plastic or metal containers may require clean rather than empty containers. In this case the containers can be rinsed with mineral spirits until the containers are considered generally product free.

**14. TRANSPORT INFORMATION****Sea transport IMDG-Code**

Class	3
UN-No	1263
Packaging group	III
EmS	F-E, S-E
Proper technical name (Proper shipping name)	
PAINT RELATED MATERIAL	

**Air transport ICAO-TI/IATA-DGR**

Class	3
UN-No	1263
Packaging group	III
Proper technical name (Proper shipping name)	
Paint related material	

**Loading instructions/Remarks**

IATA_C	ERG-Code 3L
IATA_P	ERG-Code 3L
CFR_INWTR	In the U.S. this material may be classified as combustible liquid. Combustible liquids are not regulated in packages 450 liters or less. This applies for shipments by road and rail only.
CFR_RAIL	In the U.S. this material may be classified as combustible liquid. Combustible liquids are not regulated in packages 450 liters or less. This applies for shipments by road and rail only.
CFR_ROAD	In the U.S. this material may be classified as combustible liquid. Combustible liquids are not regulated in packages 450 liters or less. This applies for shipments by road and rail only.

**15. REGULATORY INFORMATION****Information on ingredients / Non-hazardous components**

This product contains the following non-hazardous components

NJTSR No.56705700001-5069P			
CAS-No.	Trade Secret	Percent (Wt./ Wt.)	10 - 30 %
NJTSR No.56705700001-5630P			
CAS-No.	Trade Secret	Percent (Wt./ Wt.)	1 - 5 %
NJTSR No.56705700001-5068P			

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CAS-No.                      Trade Secret                      Percent (Wt./ Wt.)                      1 - 5 %

**US Federal Regulations****OSHA**

If listed below, chemical specific standards apply to the product or components:

- None listed

**Clean Air Act Section (112)**

If listed below, components present at or above the de minimus level are hazardous air pollutants:

- Manganese trioxide  
CAS-No. 1317-34-6
- C.I. Pigment Orange 5  
CAS-No. 3468-63-1

**CERCLA Reportable Quantities**

If listed below, a reportable quantity (RQ) applies to the product based on the percent of the named component:

- None listed

**SARA Title III Section 311/312 Hazard Categories**

The product meets the criteria only for the listed hazard classes:

- Acute Health Hazard
- Chronic Health Hazard
- Fire Hazard

**SARA Title III Section 313 Reportable Substances**

If listed below, components are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

- Manganese trioxide  
CAS-No. 1317-34-6

**Toxic Substances Control Act (TSCA)**

If listed below, non-proprietary substances are subject to export notification under Section 12 (b) of TSCA:

- None listed

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### Other US Federal Regulatory Information

Note: Silica, crystalline (airborne particles of respirable size) is listed as a carcinogen under California Proposition 65. However, the physical form of this product (a free flowing paste) precludes exposure to airborne particles of respirable size.

### State Regulations

#### California Proposition 65

A warning under the California Drinking Water Act is required only if listed below:

WARNING! This product contains a chemical known in the State of California to cause cancer.

- Silica, crystalline (quartz)  
CAS-No. 14808-60-7
- C.I. Pigment Orange 5  
CAS-No. 3468-63-1

### International Chemical Inventory Status

Unless otherwise noted, this product is in compliance with the inventory listing of the countries shown below. For information on listing for countries not shown, contact Degussa Corporation Product Regulatory Department:

- |                          |                           |
|--------------------------|---------------------------|
| • Europe (EINECS/ELINCS) | Listed/registered         |
| • USA (TSCA)             | Listed/registered         |
| • Canada (DSL)           | Listed/registered         |
| • Australia (AICS)       | Listed/registered         |
| • Japan (MITI)           | Not listed/Not registered |
| • Korea (TCCL)           | Not listed/Not registered |
| • Philippines (PICCS)    | Not listed/Not registered |
| • China                  | Not listed/Not registered |

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## 16. OTHER INFORMATION

### HMIS Ratings

Health :	2*
Flammability :	2
Physical Hazard :	0

### Further information

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

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