

Homestead Finishing Products

1935 W 96th St. Unit Q

Cleveland, OH 44102

PH: 216-631-5309 FAX: 216-631-5429

MATERIAL SAFETY DATA SHEET COVER SHEET

VIVITONE #8007 RAW UMBER COLORANT

TELEPHONE NUMBER: 216-631-5309

This product is re-packaged by Homestead Finishing Products. See following MSDS for other emergency contact numbers and manufacturer's material safety data sheet.

DISCLAIMER: J.B. Jewitt Co., Inc., Homestead Finishing Products believes all the information and data given is accurate as of the date of preparation and is offered in good faith, but without warranty or representation. Since conditions of use are beyond our control we disclaim all liability for the use or handling of this product. This information is offered solely for your consideration, investigation, and verification.

MATERIAL SAFETY DATA SHEET
896-2001 CHROMA-CHEM® RAW UMBER

degussa.

creating essentials

Material no.	10005884	Version	2.16 / US
Specification	139358	Revision date	08/22/2007
Order Number	01784250	Print Date	09/25/2007
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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product information

Trade name : 896-2001 CHROMA-CHEM® RAW UMBER
Use of the Substance / : Aqueous industrial colorant
Preparation
Company : Degussa Corporation
379 Interpace Parkway
Parsippany,NJ 07054
USA

Telephone : 973-541-8000

Telefax : 973-541-8040

US: CHEMTREC EMERGENCY : 800-424-9300
NUMBER

CANADA: CANUTEC : 613-996-6666
EMERGENCY NUMBER

Product Regulatory Services : 973-541-8060

2. HAZARDS IDENTIFICATION

***** EMERGENCY OVERVIEW *****

Form-paste Color-brown Odor-Mild odor.

May cause eye, skin and respiratory tract irritation.
May be harmful if swallowed.

POTENTIAL HEALTH EFFECTS

Eye contact

A mild irritant according to test results on CHROMA-CHEM® base mixtures. Can cause tearing and reddening.

Skin Contact

A mild irritant according to test results on CHROMA-CHEM® base mixtures. Repeated exposure may cause drying of the skin.

Inhalation

Possibly irritating.

If misted, causes irritation of mucous membranes, nose, eyes, and throat. May cause coughing and difficulty in breathing.

Ingestion

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

Diethylene glycol monomethyl ether has been shown to cause toxic effects on the thymus and the spleen in tests on laboratory animals.

Diethylene glycol monomethyl ether has been shown to cause fetotoxicity and teratogenicity via oral route in tests on laboratory animals.

May be harmful if swallowed.

Chronic Health Hazard

The NJTSR No. 56705700001-5020P, is moderately toxic and may be harmful if swallowed, inhaled or absorbed through the skin. This material may also stimulate the central nervous system, possibly resulting in restlessness, uncoordination, tremors and convulsions.

Oral doses of Diethylene glycol monomethyl ether that were high enough to cause maternal toxicity in pregnant laboratory test animals also produced birth defects in their offspring. When applied continuously to the skin of laboratory test animals during pregnancy, this material caused slight embryofetal toxicity (delayed development) but no increase in birth defects. The relevance of this information to humans is not known. Overexposure to this material has been suggested as a cause of the following effects in laboratory animals, and may aggravate pre-existing disorders of these organs in humans: kidney damage, liver abnormalities, testis damage.

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).

Some studies have linked exposure of carbon black dust to lung effects. IARC classifies carbon black as a Category 2B Carcinogen (known animal carcinogen, possible human carcinogen) based on inhalation studies. However, the manufacturers of carbon black state that epidemiologic studies of workers in the carbon black industry in the U.S. and W. Europe show no significant adverse health effects due to occupational exposure.

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**

Carbon black, amorphous			
CAS-No.	1333-86-4	Percent (Wt./ Wt.)	1 - 5 %
Stoddard solvent; Low boiling point naphtha - unspecified			
CAS-No.	8052-41-3	Percent (Wt./ Wt.)	0.01 - 1 %
Aluminum oxide			
CAS-No.	1344-28-1	Percent (Wt./ Wt.)	1 - 5 %
Silica, crystalline (quartz)			
CAS-No.	14808-60-7	Percent (Wt./ Wt.)	1 - 5 %
2-butoxyethanol; ethylene glycol monobutyl ether			
CAS-No.	111-76-2	Percent (Wt./ Wt.)	1 - 5 %
Iron Oxide			
CAS-No.	1309-37-1	Percent (Wt./ Wt.)	10 - 30 %
manganese dioxide			
CAS-No.	1313-13-9	Percent (Wt./ Wt.)	5 - 10 %

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NJTSR No.56705700001-5020P

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

2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether

CAS-No. 111-77-3 Percent (Wt./ Wt.) 5 - 10 %

Other information

This material is classified as hazardous under OSHA regulations.

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 for at least 15 minutes or until all material has been removed. Obtain medical attention.

Ingestion

If swallowed, do NOT induce vomiting. Have victim drink 8-10 ounces of water to dilute material in stomach. Get medical attention immediately. Never give anything by mouth to an unconscious person.

5. FIRE-FIGHTING MEASURES

Flash point not determined

Suitable extinguishing media

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

Specific hazards during fire fighting

Burning will produce toxic fumes. Burning will produce hazardous compounds including oxides of: carbon, nitrogen.

Further information

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

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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**

Wash thoroughly after handling.
Use with adequate ventilation.
Follow all MSDS/label precautions even after container is emptied because it may retain product residues.
Avoid contact with skin and eyes.

Storage**Requirements for storage areas and containers**

Keep away from heat. Keep away from sparks, flame and other sources of ignition.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Component occupational exposure guidelines****• Carbon black, amorphous**

CAS-No.	1333-86-4	Time Weighted Average (TWA):(ACGIH)
Control parameters	3.5 mg/m3	PEL:(OSHA Z1)
	3.5 mg/m3	Time Weighted Average (TWA)
	3.5 mg/m3	Permissible Exposure Limit (PEL):(US CA OEL)

• Stoddard solvent; Low boiling point naphtha - unspecified

CAS-No.	8052-41-3	Time Weighted Average (TWA):(ACGIH)
	100 ppm	PEL:(OSHA Z1)
	500 ppm	
	2900 mg/m3	
	100 ppm	Time Weighted Average (TWA)
	525 mg/m3	Permissible Exposure Limit (PEL):(US CA OEL)

• Aluminum oxide

CAS-No.	1344-28-1	Time Weighted Average (TWA):(ACGIH)
	10 mg/m3	
	The value is for particulate matter containing no asbestos and <1% crystalline silica.	

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5 mg/m³
Respirable fraction. PEL:(OSHA Z1)

15 mg/m³
Total dust. PEL:(OSHA Z1)

5 mg/m³
Respirable fraction. Time Weighted Average (TWA)
Permissible Exposure Limit (PEL):(US CA OEL)

10 mg/m³
Total dust. Time Weighted Average (TWA)
Permissible Exposure Limit (PEL):(US CA OEL)

- **Silica, crystalline (quartz)**

CAS-No. 14808-60-7
0.05 mg/m³
Respirable particles. Time Weighted Average (TWA):(ACGIH)

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

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

2.4millions of particles
per cubic foot of air
Respirable. Time Weighted Average (TWA):(Z3)
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
Respirable. Time Weighted Average (TWA):(Z3)
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
Total dust. Time Weighted Average (TWA):(Z3)
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/m³
Respirable fraction. Time Weighted Average (TWA):(ACGIH)

- **2-butoxyethanol; ethylene glycol monobutyl ether**

CAS-No. 111-76-2

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20 ppm
50 ppm
240 mg/m³

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

Skin designation:(OSHA Z1)

Can be absorbed through the skin.

25 ppm
120 mg/m³

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

Skin designation:(US CA OEL)

Can be absorbed through the skin.

• **Iron Oxide**

CAS-No. 1309-37-1
10 mg/m³
Fume.

PEL:(OSHA Z1)

5 mg/m³

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

Fume.

5 mg/m³

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

Respirable fraction.

10 mg/m³

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

Total dust.

5 mg/m³
Respirable fraction.

Time Weighted Average (TWA):(ACGIH)

• **manganese dioxide**

CAS-No. 1313-13-9
5 mg/m³ as Mn
0.2 mg/m³ as Mn

Ceiling Limit Value:(OSHA Z1)
Time Weighted Average (TWA)
Permissible Exposure Limit (PEL):(US CA
OEL)

0.2 mg/m³ as Mn

Time Weighted Average (TWA):(ACGIH)

Other information

The exposure value for crystalline silica is for the respirable fraction.
The OSHA PEL-TWA for crystalline silica is 30 mg/m³ divided by "%SiO₂ + 2" (as total particulate), and 10mg/m³ divided by "%SiO₂ + 2" (as respirable fraction).
The OSHA PEL-TWA for aluminum oxide is 15 mg/m³ (total) and 5 mg/m³ (respirable).
The ACGIH TWA for aluminum oxide is 10m/m³ for particulate matter containing no asbestos and <1% crystalline silica.

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Engineering measures

Local exhaust and mechanical ventilation recommended.

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

Use chemical splash goggles or face shield.

Skin and body protection

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.

A safety shower and eye wash fountain should be readily available.

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

Form	paste
Color	brown
Odor	Mild odor.

Safety data

pH	8.0 - 9.5
Boiling point/range	> 100 °C
Flash point	not determined
Relative density	1.4
Solubility/qualitative	Solubility in water: Dispersible.
Viscosity, dynamic	65 - 90 KU (25 °C)
Relative vapor density	Heavier than air
Solvents and Volatiles Data	% VOC (gm/l) 231.50
Evaporation rate	Slower than butyl acetate

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10. STABILITY AND REACTIVITY

Materials to avoid	oxidizing substances Ethylene oxide and guanidinum perchlorate (incompatible with iron oxide.), (danger of explosion)
Hazardous decomposition products	carbon monoxide, carbon dioxide
Hazardous reactions	Product will not undergo hazardous polymerization.
Further information	This product is stable under normal storage conditions.

11. TOXICOLOGICAL INFORMATION

Product Acute oral toxicity	LD50 Rat: min. 2000 mg/kg
Product Acute inhalation toxicity	LC50 Rat: min. 2.53 mg/l / 4 h
Product Acute dermal toxicity	LD50 Rabbit: min. 2000 mg/kg
Component Skin irritation	2-butoxyethanol; ethylene glycol monobutyl ether 111-76-2 Rabbit / 24 h Irritating to skin. Severe skin irritation Method: Draize Test irritating
Component Eye irritation	2-butoxyethanol; ethylene glycol monobutyl ether 111-76-2 Rabbit Irritating to eyes. Severe eye damage must be expected. Severe eye irritation NJTSR No.56705700001-5020P Trade Secret corrosive
Component Repeated dose toxicity	2-butoxyethanol; ethylene glycol monobutyl ether 111-76-2 inhalative mouse Testing period: 730 d LOAEL: 0.6025 mg/l target organ/effect: Lungs, Liver
Component Gentoxicity in vitro	2-butoxyethanol; ethylene glycol monobutyl ether 111-76-2

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In vitro tests involving bacteria, human and other mammalian cells have indicated that ethylene glycol monobutyl ether may cause weak mutagenic effects. However, it is not possible to conclude that this substance is liable to cause mutagenic effects as the relevance of these tests is questionable since none have been reproduced.

Component Mutagenicity
assessment

Carbon black, amorphous
1333-86-4

This product contains one or more ingredients that have been shown to produce mutagenic effects in in vitro testing.

Component carcinogenicity
assessment

Carbon black, amorphous
1333-86-4

Some studies have linked exposure of carbon black dust to lung effects. IARC classifies carbon black as a Category 2B Carcinogen (known animal carcinogen, possible human carcinogen) based on inhalation studies. However, the manufacturers of carbon black state that epidemiologic studies of workers in the carbon black industry in the U.S. and W. Europe show no significant adverse health effects due to occupational exposure.

Silica, crystalline (quartz)
14808-60-7

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

2-butoxyethanol; ethylene glycol monobutyl ether
111-76-2

Ethylene glycol monobutyl ether has caused malignant and benign tumors in animal experiments.

Component teratogenicity
assessment

2-butoxyethanol; ethylene glycol monobutyl ether
111-76-2

Oral and inhalation exposure to ethylene glycol monobutyl ether has been shown in animal experiments to cause dose-related fetotoxic effects. Developmental effects, including malformation of the fetus, have been observed at doses that were maternally toxic and marginally reduced fetal weight has been observed at doses that were not maternally toxic in rats.

2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether
111-77-3

Diethylene glycol monomethyl ether has been shown to cause fetotoxicity and teratogenicity via oral route in tests on laboratory animals.

Product General Toxicity
Information

The toxicological properties of this product were based on data from an analogous product. Crystalline silica has shown positive results in "in vitro" screening tests for mutagenicity. Repeated exposure to manganese dioxide may cause lung effects. There is conclusive evidence that inhaling high levels of manganese dioxide may lead to neurological effects in humans, such as altered gait, tremor, and psychiatric disturbances. These effects may continue to progress even after exposure to manganese dioxide ceases. Manganese dioxide dust has caused developmental toxicity in the absence of maternal effects.

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12. ECOLOGICAL INFORMATION

General Ecological Information No ecotoxicological studies are available.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL

Advice on disposal Waste must be disposed of in accordance with federal, state, provincial and local regulations.

14. TRANSPORT INFORMATION

Transport/further information

Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

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 dioxide
CAS-No. 1313-13-9
- 2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether
CAS-No. 111-77-3

CERCLA Reportable Quantities

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

- 2-methylpropan-1-ol; iso-butanol
CAS-No. 78-83-1
Reportable Quantity 625000 lbs

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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

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:

- Aluminum oxide
CAS-No. 1344-28-1
- 2-butoxyethanol; ethylene glycol monobutyl ether
CAS-No. 111-76-2
- 2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether
CAS-No. 111-77-3
- manganese dioxide
CAS-No. 1313-13-9

Toxic Substances Control Act (TSCA)

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

- None listed

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.

- Carbon black, amorphous
CAS-No. 1333-86-4
- Silica, crystalline (quartz)
CAS-No. 14808-60-7

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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) | Not listed/Not registered |
| • Australia (AICS) | Not listed/Not registered |
| • Japan (MITI) | Not listed/Not registered |
| • Korea (TCCL) | Not listed/Not registered |
| • Philippines (PICCS) | Not listed/Not registered |
| • China | Not listed/Not registered |

16. OTHER INFORMATION

HMIS Ratings

Health :	2*
Flammability :	1
Physical Hazard :	0

Further information

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

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.