

Homestead Finishing Products

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MATERIAL SAFETY DATA SHEET COVER SHEET

VIVITONE #8005 WHITE COLORANT

COLORTONE #5362 WHITE COLORANT FOR WATERBASED FINISHES

EMERGENCY TELEPHONE NUMBER: 216-631-5309

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

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MATERIAL SAFETY DATA SHEET**896-0001 CHROMA-CHEM® TITANIUM WHITE****ATW****degussa.***creating essentials*

Material no.	10005791	Version	1.23 / US
Specification	139553	Revision date	08/22/2007
Order Number	01784249	Print Date	09/25/2007
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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**Product information**

Trade name : 896-0001 CHROMA-CHEM® TITANIUM WHITE ATW
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-white Odor-Mild odor.

May cause eye, skin and respiratory tract irritation.

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.

Subchronic absorption of diethylene glycol monomethyl ether has been shown to cause toxic effects to the spleen in tests on laboratory animals.

Inhalation

Possibly irritating.

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

Inhalation of this product has caused central nervous system effects in animals.

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Ingestion

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.

Chronic Health Hazard

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.

Note: oral and dermal administration of diethylene glycol monomethyl ether has been shown to cause teratogenic, fetotoxic, and embryotoxic effects in absence of maternal toxicity.

Ethylene glycol monobutyl ether has caused red blood hemolysis in laboratory animals and secondary injury to the kidney and liver. However, humans appear to be resistant to this effect. Ethylene glycol monobutyl ether has been observed to cause fetotoxic effects in animal experiments in the presence of maternal toxicity. Chronic inhalation of ethylene glycol monobutyl ether has led to increased tumor production in animals.

High concentrations of titanium dioxide dust caused microscopic lung tumors in rats in lifetime inhalation studies. However, DuPont, the primary US manufacturer, based on a review of the test data and based on an epidemiological study of employees, concludes that titanium dioxide pigment will not cause chronic respiratory disease in humans at concentrations experienced in the workplace.

Amorphous silica may cause respiratory irritation but does not cause silicosis based on animal testing by NIOSH.

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

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

Titanium dioxide			
CAS-No.	13463-67-7	Percent (Wt./ Wt.)	60 - 100 %
2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether			
CAS-No.	111-77-3	Percent (Wt./ Wt.)	1 - 5 %
Aluminum hydroxide			
CAS-No.	21645-51-2	Percent (Wt./ Wt.)	1 - 5 %
Amorphous silica			
CAS-No.	7631-86-9	Percent (Wt./ Wt.)	1 - 5 %
2-butoxyethanol; ethylene glycol monobutyl ether			
CAS-No.	111-76-2	Percent (Wt./ Wt.)	0.1 - 1 %

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Stoddard solvent; Low boiling point naphtha - unspecified
CAS-No. 8052-41-3 Percent (Wt./ Wt.) 0.1 - 1 %

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**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****• Stoddard solvent; Low boiling point naphtha - unspecified**

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

• Amorphous silica

CAS-No.	7631-86-9	
	20millions of particles	Time Weighted Average (TWA):(Z3)
	per cubic foot of air	
	0.8 mg/m ³	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.	
	10 mg/m ³	Time Weighted Average (TWA):(ACGIH)
	Inhalable particles.	
	3 mg/m ³	Time Weighted Average (TWA):(ACGIH)

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Respirable particles.

5 mg/m³ PEL:(OSHA Z1)
Respirable fraction.15 mg/m³ PEL:(OSHA Z1)
Total dust.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.

• **Titanium dioxide**CAS-No. 13463-67-7
10 mg/m³
15 mg/m³
Total dust.Time Weighted Average (TWA):(ACGIH)
PEL:(OSHA Z1)5 mg/m³ as Ti Time Weighted Average (TWA)
Permissible Exposure Limit (PEL):(US CA OEL)

Respirable fraction.

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

Total dust.

• **2-butoxyethanol; ethylene glycol monobutyl ether**CAS-No. 111-76-2
20 ppm
50 ppm
240 mg/m³Time Weighted Average (TWA):(ACGIH)
PEL:(OSHA Z1)

Skin designation:(OSHA Z1)

Can be absorbed through the skin.

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

Skin designation:(US CA OEL)

Can be absorbed through the skin.

• **Aluminum hydroxide**CAS-No. 21645-51-2
10 mg/m³

Time Weighted Average (TWA):(ACGIH)

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Inhalable particulate.

3 mg/m3
Respirable.

Time Weighted Average (TWA):(ACGIH)

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	white
Odor	Mild odor.

Safety data

pH	8.0 - 9.5
Boiling point/range	> 100 °C
Relative density	2.1
Solubility/qualitative	Solubility in water: Dispersible.
Viscosity, dynamic	95 - 120 KU (25 °C)
Relative vapor density	Heavier than air

Solvents and Volatiles Data

% VOC (gm/l)

211.11

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Evaporation rate Slower than butyl acetate

10. STABILITY AND REACTIVITY

Materials to avoid	oxidizing substances
Hazardous reactions	Product will not undergo hazardous polymerization.
Further information	Stable under normal 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
Component Repeated dose toxicity	Titanium dioxide 13463-67-7 High concentrations of titanium dioxide dust caused microscopic lung tumors in rats in lifetime inhalation studies. However, DuPont, the primary US manufacturer, based on a review of the test data and based on an epidemiological study of employees, concludes that titanium dioxide pigment will not cause chronic respiratory disease in humans at concentrations experienced in the workplace. Amorphous silica 7631-86-9 Long term or repeated exposure to amorphous silica has caused lung effects in animals. 2-butoxyethanol; ethylene glycol monobutyl ether 111-76-2

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inhalative mouse
Testing period: 730 d
LOAEL: 0.6025 mg/l
target organ/effect: Lungs, Liver

Component Genotoxicity in vitro	2-butoxyethanol; ethylene glycol monobutyl ether 111-76-2 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 carcinogenicity assessment	Titanium dioxide 13463-67-7 Contains a component which is classified as an IARC 2B carcinogen (possibly 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-(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. 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.
Product General Toxicity Information	The toxicological properties of this product were based on data from an analogous product.

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.

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14. TRANSPORT INFORMATION**Transport/further information**

Not classified as dangerous in the meaning of transport regulations.

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

This product contains the following non-hazardous components

Water			
CAS-No.	7732-18-5	Percent (Wt./ Wt.)	10 - 30 %
NJTSR No.	56705700001-5032P		
CAS-No.	Trade Secret	Percent (Wt./ Wt.)	1 - 5 %
NJTSR No.	56705700001-6329P		
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:

- 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:

- 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

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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:

- 2-butoxyethanol; ethylene glycol monobutyl ether
CAS-No. 111-76-2
- 2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether
CAS-No. 111-77-3

Toxic Substances Control Act (TSCA)

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

- None listed

State Regulations**California Proposition 65**

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

- None listed

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

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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

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