

**Homestead Finishing Products**

1935 W 96<sup>th</sup> St. Unit Q

Cleveland, OH 44102

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

**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.

**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****896-0001 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 |
|               |          | Page          | 1 / 12     |

**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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| Order Number  | 01784249 | Print Date    | 09/25/2007 |
|               |          | Page          | 2 / 12     |

**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.

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**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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| Order Number  | 01784249 | Print Date    | 09/25/2007 |
|               |          | Page          | 3 / 12     |

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.

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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 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.

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**5. FIRE-FIGHTING MEASURES****Suitable extinguishing media**

Use water spray or fog, foam, dry chemical or CO<sub>2</sub>.

**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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| Order Number  | 01784249 | Print Date    | 09/25/2007 |
|               |          | Page          | 4 / 12     |

**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 <sup>3</sup> |  |
|                    | 100 ppm                | Time Weighted Average (TWA)                  |
|                    | 525 mg/m <sup>3</sup>  | 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 <sup>3</sup>  | 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 <sup>3</sup>   | Time Weighted Average (TWA):(ACGIH) |
|         | Inhalable particles.   |                                     |
|         | 3 mg/m <sup>3</sup>  | Time Weighted Average (TWA):(ACGIH) |

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Revision date  
Print Date  
Page1.23 / US  
08/22/2007  
09/25/2007  
5 / 12

Respirable particles.

5 mg/m<sup>3</sup> PEL:(OSHA Z1)  
Respirable fraction.15 mg/m<sup>3</sup> PEL:(OSHA Z1)  
Total dust.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.

• **Titanium dioxide**CAS-No. 13463-67-7  
10 mg/m<sup>3</sup>  
15 mg/m<sup>3</sup>  
Total dust.Time Weighted Average (TWA):(ACGIH)  
PEL:(OSHA Z1)5 mg/m<sup>3</sup> as Ti Time Weighted Average (TWA)  
Permissible Exposure Limit (PEL):(US CA OEL)

Respirable fraction.

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

Time Weighted Average (TWA):(ACGIH)

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

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| Specification | 139553   | Revision date | 08/22/2007 |
| Order Number  | 01784249 | Print Date    | 09/25/2007 |
|               |          | Page          | 6 / 12     |

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.

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**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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| Order Number  | 01784249 | Print Date    | 09/25/2007 |
|               |          | Page          | 7 / 12     |

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<br>111-76-2<br>Rabbit / 24 h<br>Irritating to skin.<br>Severe skin irritation<br>Method Draize Test<br>irritating   |
| Component Eye irritation          | 2-butoxyethanol; ethylene glycol monobutyl ether<br>111-76-2<br>Rabbit<br>Irritating to eyes.<br>Severe eye damage must be expected.<br>Severe eye irritation  |
| Component Repeated dose toxicity  | Titanium dioxide<br>13463-67-7<br>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.<br><br>Amorphous silica<br>7631-86-9<br>Long term or repeated exposure to amorphous silica has caused lung effects in animals.<br><br>2-butoxyethanol; ethylene glycol monobutyl ether<br>111-76-2 |

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| Order Number  | 01784249 | Print Date    | 09/25/2007 |
|               |          | Page          | 8 / 12     |

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<br>111-76-2<br>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<br>13463-67-7<br>Contains a component which is classified as an IARC 2B carcinogen (possibly carcinogenic to humans).<br><br>2-butoxyethanol; ethylene glycol monobutyl ether<br>111-76-2<br>Ethylene glycol monobutyl ether has caused malignant and benign tumors in animal experiments.  |
| Component teratogenicity assessment  | 2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether<br>111-77-3<br>Diethylene glycol monomethyl ether has been shown to cause fetotoxicity and teratogenicity via oral route in tests on laboratory animals.<br><br>2-butoxyethanol; ethylene glycol monobutyl ether<br>111-76-2<br>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.   |

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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.

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| Material no.  | 10005791 | Version       | 1.23 / US  |
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| Order Number  | 01784249 | Print Date    | 09/25/2007 |
|               |          | Page          | 9 / 12     |

**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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|               |          |               |            |
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| Order Number  | 01784249 | Print Date    | 09/25/2007 |
|               |          | Page          | 10 / 12    |

**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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| Specification | 139553   | Revision date | 08/22/2007 |
| Order Number  | 01784249 | Print Date    | 09/25/2007 |
|               |          | Page          | 11 / 12    |

**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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| Order Number  | 01784249 | Print Date    | 09/25/2007 |
|               |          | Page          | 12 / 12    |