

Homestead Finishing Products

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Cleveland, OH 44102

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

MATERIAL SAFETY DATA SHEET COVER SHEET

VIVITONE #8016 LIGHT YELLOW 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.

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MATERIAL SAFETY DATA SHEET**896-2601 AQUA-CHEM@ORGANIC YELLOW GS****AOY****degussa.**

creating essentials

Material no.		Version	1.15 / US
Specification	139316	Revision date	12/01/2006
Order Number		Print Date	07/09/2007
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Comment: Seite: 1
SDB**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING****Product information**

Trade name : 896-2601 AQUA-CHEM@ORGANIC YELLOW GS AOY
Use of the Substance / Preparation : Aqueous industrial colorant
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. COMPOSITION/INFORMATION ON INGREDIENTS**Information on ingredients / Hazardous components**

NJTSR No.56705700001-5259P			
CAS-No.	Trade Secret	Percent (Wt./ Wt.)	1 - 5 %
2-butoxyethanol; ethylene glycol monobutyl ether			
CAS-No.	111-76-2	Percent (Wt./ Wt.)	1 - 5 %
NJTSR No.56705700001-5004P			
CAS-No.	Trade Secret	Percent (Wt./ Wt.)	1 - 5 %
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.

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3. HAZARDS IDENTIFICATION***** EMERGENCY OVERVIEW *******Form-paste Color-yellow Odor-Mild odor.**

May cause eye, skin and respiratory tract irritation.

POTENTIAL HEALTH EFFECTS**Eye contact**

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

Skin Contact

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

Inhalation

Possibly irritating.

May cause drowsiness, dizziness, headaches, nausea, loss of coordination.

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

Ingestion

May cause headache, dizziness, nausea, vomiting and general weakness.

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.

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

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.

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Skin contact

Immediately flush skin with plenty of water. Remove contaminated clothing. Obtain medical attention if irritation develops or persists. 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. 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. Should vomiting occur, be sure to keep victim's head below hips to avoid aspiration of vomitus into the lungs.

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.

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.

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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**• **Titanium dioxide**

CAS-No.	13463-67-7	
Control parameters	10 mg/m3	Time Weighted Average (TWA):(ACGIH)
	15 mg/m3	PEL:(OSHA Z1)
	Total dust.	
	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.	
	15millions of particles per cubic foot of air	Time Weighted Average (TWA):(Z3)
	Respirable fraction.	
	50millions of particles per cubic foot of air	Time Weighted Average (TWA):(Z3)
	Total dust.	
	5 mg/m3	Time Weighted Average (TWA):(Z3)
	Respirable fraction.	
	15 mg/m3	Time Weighted Average (TWA):(Z3)
	Total dust.	

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

CAS-No.	111-76-2	
	20 ppm	Time Weighted Average (TWA):(ACGIH)
	50 ppm	PEL:(OSHA Z1)
	240 mg/m3	
	Can be absorbed through the skin.	Skin designation:(OSHA Z1)
	25 ppm	Time Weighted Average (TWA)
	120 mg/m3	Permissible Exposure Limit (PEL):(US CA OEL)
		Skin designation:(US CA OEL)

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Can be absorbed through the skin.

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	yellow
Odor	Mild odor.

Safety data

pH	8.5 - 9.5
Boiling point/range	> 100 °C
Flash point	not determined
Relative density	1.2
Solubility/qualitative	Solubility in water: Dispersible.
Viscosity, dynamic	75 - 95 KU (25 °C)
Relative vapor density	Heavier than air
Solvents and Volatiles Data	% VOC (gm/l) 273.49
Evaporation rate	Slower than butyl acetate

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10. STABILITY AND REACTIVITY

Materials to avoid oxidizing substances

Hazardous decomposition products carbon monoxide, carbon dioxide

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	NJTSR No.56705700001-5259P Trade Secret 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. 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

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Component	Gentoxicity 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	NJTSR No.56705700001-5259P Trade Secret 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-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.

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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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.)	30 - 60 %
NJTSR No.56705700001-5797P				
	CAS-No.	Trade Secret	Percent (Wt./ Wt.)	10 - 30 %
NJTSR No.56705700001-6329P				
	CAS-No.	Trade Secret	Percent (Wt./ Wt.)	10 - 30 %

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

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:

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- 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) | Listed/registered |
| • Australia (AICS) | Listed/registered |
| • Japan (MITI) | Listed/registered |
| • Korea (TCCL) | Listed/registered |
| • Philippines (PICCS) | Listed/registered |
| • China | Listed/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.

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