

\* Intro Set \*

00426-1029

**MATERIAL SAFETY DATA SHEET****PRODUCT NAME:** MARSHALL VERONA BROWN  
PHOTO OIL COLOR**DATE:** 08/27/06**PRODUCT CODE(S):** MS-2-VB, MS-4-VB, MS-P-VB**MANUFACTURER:** SECTION I **PRODUCT IDENTIFICATION**  
BRANDESS/KALT/AETNA  
701 CORPORATE WOODS PKWY  
VERNON HILLS, IL 60061

INFORMATION AND EMERGENCY PHONE DURING BUSINESS HOURS 847-478-7111

FOR EMERGENCY ASSISTANCE INVOLVING A SPILL, LEAK, OR FIRE WITH THIS  
PRODUCT CALL CHEMTREC 800-424-9300.**PRODUCT CLASS:** COLOR IN OIL  
**SYNONYMS:** NONE**SECTION II HAZARDOUS INGREDIENTS**

COMPONENTS	CAS #	OSHA PEL	ACHIG TLV	WGT %
Ethyl Alcohol	64-17-5	1000	1000 ppm	>0.5%
Alumina Trihydrate	14762-49-3	5 ppm	10 ppm	<10%

**SECTION III PHYSICAL / CHEMICAL CHARACTERISTICS**

**BOILING POINT:** N/A  
**COLOR:** Brown  
**VAPOR PRESSURE (mm Hg):** 40  
**SOLUBILITY IN WATER:** >1%  
**EVAPORATION RATE:** <1  
**STABILITY:** PRODUCT IS STABLE UNDER NORMAL CONDITIONS

**SECTION IV FIRE AND EXPLOSION HAZARD DATA**

**FLASH POINT:** 160°F SETA  
**FLAMMABLE LIMITS:** OSHA III A  
**EXTINGUISHING MEDIA:** FOAM, CO<sub>2</sub>, DRY CHEMICAL.  
**SPECIAL FIRE FIGHTING INSTRUCTIONS:** AVOID USE OF WATER. IMPLEMENT IF ONLY ALTERNATIVE. WEAR SELF-CONTAINED BREATHING APPARATUS PRESSURE-DEMAND (MSHA/NIOSH APPROVED OR EQUIVALENT) AND FULL PROTECTIVE GEAR.  
**UNUSUAL FIRE & EXPLOSION HAZARDS:** USE WATER TO KEEP FIRE-EXPOSED CONTAINERS COOL. RAGS AND WASTE PAPER CONTAINING THIS MATERIAL MAY HEAT AND BURN SPONTANEOUSLY. STORE WIPING MATERIAL IN METAL CANS WITH TIGHT LIDS. SOAK WITH WATER.

**SECTION V REACTIVITY DATA****CONDITIONS TO AVOID:** OXIDIZING MATERIALS; VIOLENT REACTIONS TO CL<sub>2</sub>, CHLORINATED RUBBER.

MARSHALL VERONA BROWN PHOTO OIL COLOR

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**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** THERMAL DECOMPOSITION MAY YIELD CARBON DIOXIDE AND/OR CARBON MONOXIDE.

**HAZARDOUS POLYMERIZATION:** WILL NOT OCCUR. SPONTANEOUS COMBUSTION MAY OCCUR.

#### SECTION VI HEALTH HAZARD DATA

**CHRONIC EFFECTS OF OVEREXPOSURE/CARCINOGENICITY:** NOT LISTED AS A CARCINOGEN BY NTP, IARC AND IS NOT REGULATED BY OSHA.

**EMERGENCY AND FIRST AID PROCEDURES:**

**EYES:** FLUSH EYES WITH CLEAN WATER FOR AT LEAST 15 MINUTES LIFTING EYELIDS. IF IRRITATION PERSISTS CONSULT A PHYSICIAN IMMEDIATELY.

**SKIN:** MAY BE REMOVED FROM SKIN WITH WATERLESS HAND CLEANER FOLLOWED BY WASHING AFFECTED AREA WITH SOAP AND WATER. IF ANY IRRITATION DEVELOPS, CONSULT A PHYSICIAN.

**INHALATION:** REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT, CONSULT A PHYSICIAN.

**IF SWALLOWED:** KEEP PERSON WARM AND QUIET; GET IMMEDIATE MEDICAL ATTENTION.

#### SECTION VII PRECAUTIONS FOR SAFE HANDLING AND USE

**IF SPILLED OR RELEASED:** SMALL SPILLS SHOULD BE PICKED UP WITH ABSORBENT MATERIAL AND TRANSFERRED INTO CLOSED METAL CONTAINERS AND SOAKED WITH WATER. LARGE SPILLS CAN BE SCOOPED UP AND PUT INTO METAL CONTAINERS AND SALVAGED.

**WASTE DISPOSAL METHOD:** CAREFULLY INCINERATE OR USE SECURE LANDFILLS OR SPECIAL WASTE LANDFILL. COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.

**STORAGE AND HANDLING:** AVOID ACCUMULATION OF CONTAMINATED RAGS OR WIPING MATERIALS BY IMMEDIATE IMMERSION IN WATER.

#### SECTION VIII CONTROL MEASURES

**RESPIRATORY PROTECTION:** NOT NORMALLY NEEDED.

**VENTILATION:** RECOMMENDED

**EYES:** WEAR CHEMICAL SAFETY GOGGLES

**PROTECTIVE GLOVES:** NEOPRENE RUBBER GLOVES. PREVENT REPEATED OR PROLONGED SKIN CONTACT.

The conditions of handling, storage, use, and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons we do not assume responsibility and expressly disclaim liability for loss, damage, or expense arising out of or in any way connected with the handling, storage, use, or disposal of the product. The opinions expressed herein are those of qualified experts, chemists, and technicians supplied by various chemical manufacturers. We believe that the information contained herein is current as of the date of this Material Safety Data Sheet. Since the use of this information, these opinions, and the conditions of use of the product are not within the control of Brandess/Kalt/Aetna, it is the user's obligation to determine the conditions of safe use of the product.

**MATERIAL SAFETY DATA SHEET**

**PRODUCT NAME:** MARSHALL CHINESE BLUE  
**PHOTO OIL COLOR**  
**PRODUCT CODE(S):** MS-2-CB, MS-4-CB

**DATE:** 08/27/06

**SECTION I PRODUCT IDENTIFICATION**  
**MANUFACTURER:** BRANDESS/KALT/AETNA  
701 CORPORATE WOODS PKWY  
VERNON HILLS, IL 60061

INFORMATION AND EMERGENCY PHONE DURING BUSINESS HOURS 847-478-7111

FOR EMERGENCY ASSISTANCE INVOLVING A SPILL, LEAK, OR FIRE WITH THIS  
PRODUCT CALL CHEMTREC 800-424-9300.

**PRODUCT CLASS:** COLOR IN OIL  
**SYNONYMS:** NONE

**SECTION II HAZARDOUS INGREDIENTS**

COMPONENTS	CAS #	OSHA PEL	ACHIG TLV	WGT %
Ethyl Alcohol	64-17-5	1000	1000 ppm	>0.5%
Alumina Trihydrate	14762-49-3	5 ppm	10 ppm	<50%

**SECTION III PHYSICAL / CHEMICAL CHARACTERISTICS**

**BOILING POINT:** N/A  
**COLOR:** Blue  
**VAPOR PRESSURE (mm Hg):** 40  
**SOLUBILITY IN WATER:** >1%  
**EVAPORATION RATE:** <1  
**STABILITY:** PRODUCT IS STABLE UNDER NORMAL CONDITIONS

**SECTION IV FIRE AND EXPLOSION HAZARD DATA**

**FLASH POINT:** 160°F SETA  
**FLAMMABLE LIMITS:** OSHA III A  
**EXTINGUISHING MEDIA:** FOAM, CO<sub>2</sub>, DRY CHEMICAL.  
**SPECIAL FIRE FIGHTING INSTRUCTIONS:** AVOID USE OF WATER. IMPLEMENT IF ONLY ALTERNATIVE. WEAR SELF-CONTAINED BREATHING APPARATUS PRESSURE-DEMAND (MSHA/NIOSH APPROVED OR EQUIVALENT) AND FULL PROTECTIVE GEAR.  
**UNUSUAL FIRE & EXPLOSION HAZARDS:** USE WATER TO KEEP FIRE-EXPOSED CONTAINERS COOL. RAGS AND WASTE PAPER CONTAINING THIS MATERIAL MAY HEAT AND BURN SPONTANEOUSLY. STORE WIPING MATERIAL IN METAL CANS WITH TIGHT LIDS. SOAK WITH WATER.

**SECTION V REACTIVITY DATA**

**CONDITIONS TO AVOID:** OXIDIZING MATERIALS; VIOLENT REACTIONS TO CL<sub>2</sub>, CHLORINATED RUBBER.

**MARSHALL CHINESE BLUE PHOTO OIL COLOR****PAGE 2**

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** THERMAL DECOMPOSITION MAY YIELD CARBON DIOXIDE AND/OR CARBON MONOXIDE.

**HAZARDOUS POLYMERIZATION:** WILL NOT OCCUR. SPONTANEOUS COMBUSTION MAY OCCUR.

**SECTION VI HEALTH HAZARD DATA**

**CHRONIC EFFECTS OF OVEREXPOSURE/CARCINOGENICITY:** NOT LISTED AS A CARCINOGEN BY NTP, IARC AND IS NOT REGULATED BY OSHA.

**EMERGENCY AND FIRST AID PROCEDURES:**

**EYES:** FLUSH EYES WITH CLEAN WATER FOR AT LEAST 15 MINUTES LIFTING EYELIDS. IF IRRITATION PERSISTS CONSULT A PHYSICIAN IMMEDIATELY.

**SKIN:** MAY BE REMOVED FROM SKIN WITH WATERLESS HAND CLEANER FOLLOWED BY WASHING AFFECTED AREA WITH SOAP AND WATER. IF ANY IRRITATION DEVELOPS, CONSULT A PHYSICIAN.

**INHALATION:** REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT, CONSULT A PHYSICIAN.

**IF SWALLOWED:** KEEP PERSON WARM AND QUIET; GET IMMEDIATE MEDICAL ATTENTION.

**SECTION VII PRECAUTIONS FOR SAFE HANDLING AND USE**

**IF SPILLED OR RELEASED:** SMALL SPILLS SHOULD BE PICKED UP WITH ABSORBENT MATERIAL AND TRANSFERRED INTO CLOSED METAL CONTAINERS AND SOAKED WITH WATER. LARGE SPILLS CAN BE SCOOPED UP AND PUT INTO METAL CONTAINERS AND SALVAGED.

**WASTE DISPOSAL METHOD:** CAREFULLY INCINERATE OR USE SECURE LANDFILLS OR SPECIAL WASTE LANDFILL. COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.

**STORAGE AND HANDLING:** AVOID ACCUMULATION OF CONTAMINATED RAGS OR WIPING MATERIALS BY IMMEDIATE IMMERSION IN WATER.

**SECTION VIII CONTROL MEASURES**

**RESPIRATORY PROTECTION:** NOT NORMALLY NEEDED.

**VENTILATION:** RECOMMENDED

**EYES:** WEAR CHEMICAL SAFETY GOGGLES

**PROTECTIVE GLOVES:** NEOPRENE RUBBER GLOVES. PREVENT REPEATED OR PROLONGED SKIN CONTACT.

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**MATERIAL SAFETY DATA SHEET****PRODUCT NAME: MARSHALL CHEEK  
PHOTO OIL COLOR****DATE: 08/27/06****PRODUCT CODE(S): MS-2-CH, MS-4-CH, MS-P-CH****SECTION I PRODUCT IDENTIFICATION****MANUFACTURER: BRANDESS/KALT/AETNA  
701 CORPORATE WOODS PKWY  
VERNON HILLS, IL 60061**

INFORMATION AND EMERGENCY PHONE DURING BUSINESS HOURS 847-478-7111

FOR EMERGENCY ASSISTANCE INVOLVING A SPILL, LEAK, OR FIRE WITH THIS  
PRODUCT CALL CHEMTREC 800-424-9300.**PRODUCT CLASS: COLOR IN OIL  
SYNONYMS: NONE****SECTION II HAZARDOUS INGREDIENTS**

COMPONENTS	CAS #	OSHA PEL	ACHIG TLV	WGT %
Ethyl Alcohol	64-17-5	1000	1000 ppm	>0.5%
Alumina Trihydrate	14762-49-3	5 ppm	10 ppm	<50%

**SECTION III PHYSICAL / CHEMICAL CHARACTERISTICS****BOILING POINT: N/A  
COLOR: Pink/Rose  
VAPOR PRESSURE (mm Hg) 40  
SOLUBILITY IN WATER: >1%  
EVAPORATION RATE: <1  
STABILITY: PRODUCT IS STABLE UNDER NORMAL CONDITIONS****SECTION IV FIRE AND EXPLOSION HAZARD DATA****FLASH POINT: 160°F SETA  
FLAMMABLE LIMITS: OSHA III A  
EXTINGUISHING MEDIA: FOAM, CO<sub>2</sub>, DRY CHEMICAL.  
SPECIAL FIRE FIGHTING INSTRUCTIONS: AVOID USE OF WATER. IMPLEMENT IF  
ONLY ALTERNATIVE. WEAR SELF-CONTAINED BREATHING APPARATUS  
PRESSURE-DEMAND (MSHA/NIOSH APPROVED OR EQUIVALENT) AND FULL  
PROTECTIVE GEAR.  
UNUSUAL FIRE & EXPLOSION HAZARDS: USE WATER TO KEEP FIRE-EXPOSED  
CONTAINERS COOL. RAGS AND WASTE PAPER CONTAINING THIS MATERIAL  
MAY HEAT AND BURN SPONTANEOUSLY. STORE WIPING MATERIAL IN METAL  
CANS WITH TIGHT LIDS. SOAK WITH WATER.****SECTION V REACTIVITY DATA****CONDITIONS TO AVOID: OXIDIZING MATERIALS; VIOLENT REACTIONS TO CL<sub>2</sub>,  
CHLORINATED RUBBER.**

**MARSHALL CHEEK PHOTO OIL COLOR****PAGE 2**

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** THERMAL DECOMPOSITION MAY YIELD CARBON DIOXIDE AND/OR CARBON MONOXIDE.

**HAZARDOUS POLYMERIZATION:** WILL NOT OCCUR. SPONTANEOUS COMBUSTION MAY OCCUR.

**SECTION VI HEALTH HAZARD DATA**

**CHRONIC EFFECTS OF OVEREXPOSURE/CARCINOGENICITY:** NOT LISTED AS A CARCINOGEN BY NTP, IARC AND IS NOT REGULATED BY OSHA.

**EMERGENCY AND FIRST AID PROCEDURES:**

**EYES:** FLUSH EYES WITH CLEAN WATER FOR AT LEAST 15 MINUTES LIFTING EYELIDS. IF IRRITATION PERSISTS CONSULT A PHYSICIAN IMMEDIATELY.

**SKIN:** MAY BE REMOVED FROM SKIN WITH WATERLESS HAND CLEANER FOLLOWED BY WASHING AFFECTED AREA WITH SOAP AND WATER. IF ANY IRRITATION DEVELOPS, CONSULT A PHYSICIAN.

**INHALATION:** REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT, CONSULT A PHYSICIAN.

**IF SWALLOWED:** KEEP PERSON WARM AND QUIET; GET IMMEDIATE MEDICAL ATTENTION.

**SECTION VII PRECAUTIONS FOR SAFE HANDLING AND USE**

**IF SPILLED OR RELEASED:** SMALL SPILLS SHOULD BE PICKED UP WITH ABSORBENT MATERIAL AND TRANSFERRED INTO CLOSED METAL CONTAINERS AND SOAKED WITH WATER. LARGE SPILLS CAN BE SCOOPED UP AND PUT INTO METAL CONTAINERS AND SALVAGED.

**WASTE DISPOSAL METHOD:** CAREFULLY INCINERATE OR USE SECURE LANDFILLS OR SPECIAL WASTE LANDFILL. COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.

**STORAGE AND HANDLING:** AVOID ACCUMULATION OF CONTAMINATED RAGS OR WIPING MATERIALS BY IMMEDIATE IMMERSION IN WATER.

**SECTION VIII CONTROL MEASURES**

**RESPIRATORY PROTECTION:** NOT NORMALLY NEEDED.

**VENTILATION:** RECOMMENDED

**EYES:** WEAR CHEMICAL SAFETY GOGGLES

**PROTECTIVE GLOVES:** NEOPRENE RUBBER GLOVES. PREVENT REPEATED OR PROLONGED SKIN CONTACT.

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**MATERIAL SAFETY DATA SHEET**

**PRODUCT NAME:** MARSHALL CADMIUM YELLOW PHOTO OIL COLOR  
**PRODUCT CODE(S):** MS-2-CY, MS-4-CY, MS-P-CY **DATE:** 08/27/06

**SECTION I PRODUCT IDENTIFICATION**

**MANUFACTURER:** BRANDESS/KALT/AETNA  
 701 CORPORATE WOODS PKWY  
 VERNON HILLS, IL 60061

INFORMATION AND EMERGENCY PHONE DURING BUSINESS HOURS 847-478-7111

FOR EMERGENCY ASSISTANCE INVOLVING A SPILL, LEAK, OR FIRE WITH THIS PRODUCT CALL CHEMTREC 800-424-9300.

**PRODUCT CLASS:** COLOR IN OIL  
**SYNONYMS:** NONE

Warning: This product contains a chemical known to the state of California to cause cancer (and/or birth defects) or other reproductive harm.

**SECTION II HAZARDOUS INGREDIENTS**

COMPONENTS	CAS #	OSHA PEL	ACHIG TLV	WGT %
Ethyl Alcohol	64-17-5	1000	1000 ppm	<1%
Alumina Trihydrate	14762-49-3	5 ppm	10 ppm	<10%
Cadmium Zinc Sulfide	12442-27-2	.005mg/m3	.05mg/m3	<47%

**SECTION III PHYSICAL / CHEMICAL CHARACTERISTICS**

**BOILING POINT:** N/A  
**COLOR:** Yellow  
**VAPOR PRESSURE (mm Hg):** 40  
**SOLUBILITY IN WATER:** <1%  
**EVAPORATION RATE:** <1  
**STABILITY:** PRODUCT IS STABLE UNDER NORMAL CONDITIONS

**SECTION IV FIRE AND EXPLOSION HAZARD DATA**

**FLASH POINT:** 153°F SETA  
**FLAMMABLE LIMITS:** OSHA III A  
**EXTINGUISHING MEDIA:** FOAM, CO<sub>2</sub>, DRY CHEMICAL.  
**SPECIAL FIRE FIGHTING INSTRUCTIONS:** AVOID USE OF WATER. IMPLEMENT IF ONLY ALTERNATIVE. WEAR SELF-CONTAINED BREATHING APPARATUS PRESSURE-DEMAND (MSHA/NIOSH APPROVED OR EQUIVALENT) AND FULL PROTECTIVE GEAR.  
**UNUSUAL FIRE & EXPLOSION HAZARDS:** USE WATER TO KEEP FIRE-EXPOSED CONTAINERS COOL. RAGS AND WASTE PAPER CONTAINING THIS MATERIAL MAY HEAT AND BURN SPONTANEOUSLY. STORE WIPING MATERIAL IN METAL CANS WITH TIGHT LIDS. SOAK WITH WATER.

**SECTION V REACTIVITY DATA**

**CONDITIONS TO AVOID:** FIRE CONDITIONS AND CONTACT WITH STRONG ACIDS. OXIDIZING MATERIALS; VIOLENT REACTIONS TO CL<sub>2</sub>, CHLORINATED

**MARSHALL CADMIUM YELLOW PHOTO OIL COLOR**

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RUBBER. SANDING OF FILMS CAN CREATE DUST CONTAINING CADMIUM.  
**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** ABOVE 1000°F MAY EMIT SO<sub>2</sub>  
GAS AND CADMIUM OXIDE FUMES. H<sub>2</sub>S GAS WITH STRONG ACIDS.  
**HAZARDOUS POLYMERIZATION:** WILL NOT OCCUR. SPONTANEOUS COMBUSTION  
MAY OCCUR.

#### SECTION VI HEALTH HAZARD DATA

**CHRONIC EFFECTS OF OVEREXPOSURE/CARCINOGENICITY:** REPEATED AND  
PROLONGED INHALATION OR INGESTION OF CADMIUM COMPOUNDS MAY  
CAUSE DELAYED EFFECTS INVOLVING THE RESPIRATORY AND RENAL  
SYSTEMS. NOT LISTED AS A CARCINOGEN BY NTP, IARC AND IS NOT  
REGULATED BY OSHA.

**EMERGENCY AND FIRST AID PROCEDURES:**

**EYES:** FLUSH EYES WITH CLEAN WATER FOR AT LEAST 15 MINUTES LIFTING  
EYELIDS. IF IRRITATION PERSISTS CONSULT A PHYSICIAN  
IMMEDIATELY.

**SKIN:** MAY BE REMOVED FROM SKIN WITH WATERLESS HAND CLEANER  
FOLLOWED BY WASHING AFFECTED AREA WITH SOAP AND WATER. IF  
ANY IRRITATION DEVELOPS, CONSULT A PHYSICIAN.

**INHALATION:** REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT,  
CONSULT A PHYSICIAN.

**IF SWALLOWED:** GIVE LARGE QUANTITIES OF WATER, INDUCE VOMITING.  
GET IMMEDIATE MEDICAL ATTENTION.

#### SECTION VII PRECAUTIONS FOR SAFE HANDLING AND USE

**IF SPILLED OR RELEASED:** SMALL SPILLS SHOULD BE PICKED UP WITH  
ABSORBENT MATERIAL AND TRANSFERRED INTO CLOSED METAL  
CONTAINERS AND SOAKED WITH WATER. LARGE SPILLS CAN BE SCOOPED  
UP AND PUT INTO METAL CONTAINERS AND SALVAGED.

**WASTE DISPOSAL METHOD:** CAREFULLY INCINERATE OR USE SECURE LANDFILLS  
OR SPECIAL WASTE LANDFILL. COMPLY WITH ALL APPLICABLE FEDERAL,  
STATE, AND LOCAL REGULATIONS.

**STORAGE AND HANDLING:** AVOID ACCUMULATION OF CONTAMINATED RAGS OR  
WIPING MATERIALS BY IMMEDIATE IMMERSION IN WATER.

#### SECTION VIII CONTROL MEASURES

**RESPIRATORY PROTECTION:** NOT NORMALLY NEEDED, UNLESS SPRAYING

**VENTILATION:** RECOMMENDED

**EYES:** WEAR CHEMICAL SAFETY GOGGLES

**PROTECTIVE GLOVES:** NEOPRENE RUBBER GLOVES. PREVENT REPEATED OR  
PROLONGED SKIN CONTACT.

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**MATERIAL SAFETY DATA SHEET**

**PRODUCT NAME:** MARSHALL BASIC FLESH PHOTO OIL COLOR      **DATE:** 08/27/06  
**PRODUCT CODE(S):**      MS-2-BF, MS-4-BF, MS-P-BF

**SECTION I PRODUCT IDENTIFICATION**  
**MANUFACTURER:**      BRANDESS/KALT/AETNA  
                                 701 CORPORATE WOODS PKWY  
                                 VERNON HILLS, IL 60061

INFORMATION AND EMERGENCY PHONE DURING BUSINESS HOURS 847-478-7111

FOR EMERGENCY ASSISTANCE INVOLVING A SPILL, LEAK, OR FIRE WITH THIS PRODUCT CALL CHEMTREC 800-424-9300.

**PRODUCT CLASS:**      COLOR IN OIL  
**SYNONYMS:**              NONE

**SECTION II HAZARDOUS INGREDIENTS**

COMPONENTS	CAS #	OSHA PEL	ACHIG TLV	WGT %
Ethyl Alcohol	64-17-5	1000	1000 ppm	>0.5%
Alumina Trihydrate	14762-49-3	5 ppm	10 ppm	<30%

**SECTION III PHYSICAL / CHEMICAL CHARACTERISTICS**

**BOILING POINT:**              N/A  
**COLOR:**                        Flesh  
**VAPOR PRESSURE (mm Hg)**    40  
**SOLUBILITY IN WATER:**      >1%  
**EVAPORATION RATE:**        <1  
**STABILITY:**                    PRODUCT IS STABLE UNDER NORMAL CONDITIONS

**SECTION IV FIRE AND EXPLOSION HAZARD DATA**

**FLASH POINT:** 160°F SETA  
**FLAMMABLE LIMITS:** OSHA III A  
**EXTINGUISHING MEDIA:** FOAM, CO<sub>2</sub>, DRY CHEMICAL.  
**SPECIAL FIRE FIGHTING INSTRUCTIONS:** AVOID USE OF WATER. IMPLEMENT IF ONLY ALTERNATIVE. WEAR SELF-CONTAINED BREATHING APPARATUS PRESSURE-DEMAND (MSHA/NIOSH APPROVED OR EQUIVALENT) AND FULL PROTECTIVE GEAR.  
**UNUSUAL FIRE & EXPLOSION HAZARDS:** USE WATER TO KEEP FIRE-EXPOSED CONTAINERS COOL. RAGS AND WASTE PAPER CONTAINING THIS MATERIAL MAY HEAT AND BURN SPONTANEOUSLY. STORE WIPING MATERIAL IN METAL CANS WITH TIGHT LIDS. SOAK WITH WATER.

**SECTION V REACTIVITY DATA**

**CONDITIONS TO AVOID:** OXIDIZING MATERIALS; VIOLENT REACTIONS TO CL<sub>2</sub>, CHLORINATED RUBBER.  
**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** THERMAL DECOMPOSITION MAY YIELD CARBON DIOXIDE AND/OR CARBON MONOXIDE.

**MARSHALL BASIC FLESH PHOTO OIL COLOR****PAGE 2****HAZARDOUS POLYMERIZATION:** WILL NOT OCCUR. SPONTANEOUS COMBUSTION MAY OCCUR.**SECTION VI HEALTH HAZARD DATA****CHRONIC EFFECTS OF OVEREXPOSURE/CARCINOGENICITY:** NOT LISTED AS A CARCINOGEN BY NTP, IARC AND IS NOT REGULATED BY OSHA.**EMERGENCY AND FIRST AID PROCEDURES:****EYES:** FLUSH EYES WITH CLEAN WATER FOR AT LEAST 15 MINUTES LIFTING EYELIDS. IF IRRITATION PERSISTS CONSULT A PHYSICIAN IMMEDIATELY.**SKIN:** MAY BE REMOVED FROM SKIN WITH WATERLESS HAND CLEANER FOLLOWED BY WASHING AFFECTED AREA WITH SOAP AND WATER. IF ANY IRRITATION DEVELOPS, CONSULT A PHYSICIAN.**INHALATION:** REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT, CONSULT A PHYSICIAN.**IF SWALLOWED:** KEEP PERSON WARM AND QUIET; GET IMMEDIATE MEDICAL ATTENTION.**SECTION VII PRECAUTIONS FOR SAFE HANDLING AND USE****IF SPILLED OR RELEASED:** SMALL SPILLS SHOULD BE PICKED UP WITH ABSORBENT MATERIAL AND TRANSFERRED INTO CLOSED METAL CONTAINERS AND SOAKED WITH WATER. LARGE SPILLS CAN BE SCOOPED UP AND PUT INTO METAL CONTAINERS AND SALVAGED.**WASTE DISPOSAL METHOD:** CAREFULLY INCINERATE OR USE SECURE LANDFILLS OR SPECIAL WASTE LANDFILL. COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.**STORAGE AND HANDLING:** AVOID ACCUMULATION OF CONTAMINATED RAGS OR WIPING MATERIALS BY IMMEDIATE IMMERSION IN WATER.**SECTION VIII CONTROL MEASURES****RESPIRATORY PROTECTION:** NOT NORMALLY NEEDED.**VENTILATION:** RECOMMENDED**EYES:** WEAR CHEMICAL SAFETY GOGGLES**PROTECTIVE GLOVES:** NEOPRENE RUBBER GLOVES. PREVENT REPEATED OR PROLONGED SKIN CONTACT.

The conditions of handling, storage, use, and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons we do not assume responsibility and expressly disclaim liability for loss, damage, or expense arising out of or in any way connected with the handling, storage, use, or disposal of the product. The opinions expressed herein are those of qualified experts, chemists, and technicians supplied by various chemical manufacturers. We believe that the information contained herein is current as of the date of this Material Safety Data Sheet. Since the use of this information, these opinions, and the conditions of use of the product are not within the control of Brandess/Kalt/Aetna, it is the user's obligation to determine the conditions of safe use of the product.

**MATERIAL SAFETY DATA SHEET****Product Name:** Marshall PM Solution**Date:** 12/05/05**MANUFACTURER:**

**SECTION I PRODUCT IDENTIFICATION**  
 THE JOHN G. MARSHALL MFG. CO., INC.  
 701 CORPORATE WOODS PARKWAY  
 VERNON HILLS, IL 60061

INFORMATION AND EMERGENCY PHONE DURING BUSINESS HOURS 800-621-5488

FOR EMERGENCY ASSISTANCE INVOLVING A SPILL, LEAK, OR FIRE WITH THIS PRODUCT CALL  
 CHEMTREC 800-424-9300

**PHYSICAL DATA:** BLENDED SOLUTION  
**SYNONYMS:** NONE

**Section II Hazardous Ingredients**

Component(s)	CAS #	Weight %
<b>** Trade Secret **</b>		
D-Limonene	5989-27-5	Less than 90%
Vegetable Oils	8001-26-1	Over 10%

**Section III Physical/Chemical Characteristics**

**Boiling Point:** 310°F  
**Color:** Water-White  
**Solubility in Water:** Neglible  
**Evaporation Rate:** Slower than Ether  
**Stability:** Product is stable under normal conditions

**Section IV Fire and Explosion Hazard Data**

**Flash Point:** 115°F (closed cup)  
**Flammable Limits:** Combustible Liquid N.O.S., Hazard Class 3. UN 2319 Packing Group III  
**Extinguishing Media:** Carbon Dioxide, Dry Chemical, Foam or Sand  
**Special Fire Fighting Instructions:** Material is moderate fire and explosion hazard. Smother to exclude air. Wear self-contained breathing apparatus. Pressure-demand (MSHA/NIOSH Approved or Equivalent) and full protective Gear. Do not use water. Handle as an oil fire.  
**Unusual Fire Explosion Hazards:** Combustible Liquid. Keep away from heat, sparks, and open flame. Guard against spontaneous combustion of improperly discarded oily rags.

**Section V Reactivity Data**

**Conditions to Avoid:** Heat, Sparks, Open Flames, and Oxidizing Materials  
**Hazardous Decomposition or By-Products:** Chance of Thermal decomposition may yield Carbon Dioxide and/or Carbon Monoxide  
**Hazardous Polymerization:** Will Not Occur

Continued on the next page

**Marshall PM Solution**

Page 2

**Section VI Health Hazard Data**

**Health Hazards (Acute and Chronic):** Product is harmful if swallowed. Ingestion may cause vomiting, headache, and other medical problems. May be irritating to skin and eyes. Skin contact may cause slight redness. Contains a potential skin sensitizer. Eye contact can cause moderate to high irritation. Inhalation can cause nose, throat, and respiratory tract irritation, coughing and headache. Prolonged or repeated exposure can cause drying, defatting and dermatitis of skin.

**Medical Conditions Generally Aggravated by Exposure:** Persons with allergies or pre-existing skin conditions should avoid contact with this product.

**Emergency and First Aid Procedures:**

**Eyes:** Remove contact lenses at once. Flush with water for at least 15 minutes. If irritation persists, seek medical attention.

**Skin:** Wash affected area with copious amounts of soap and water. If irritation develops, seek medical attention.

**Ingestion:** Seek medical attention immediately. Do not induce vomiting. Rinse mouth with water, then drink one glass of water. Do not leave victim unattended. Never give anything by mouth if victim is unconscious, is rapidly losing consciousness, or is convulsing.

**In halation:** If symptoms of overexposure are experienced, evacuate to fresh air. If symptoms persist, seek medical attention.

**Section VII Toxicological Data**

**Acute Eye Irritation:** Eye irritation, rabbit. Severely irritating

**Acute Skin Irritation:** Skin irritation, rabbit. Severely irritating

**Acute Dermal Toxicity:** LD50->5 g/kg, rabbit.

**Acute Respiratory Irritation:** No test data found for product.

**Acute Inhalation Toxicity:** No test data found for product.

**Acute Oral Toxicity:** LD50->5 g/kg, rat.

**Chronic Toxicity:** This product does not contain any substances that are considered by OSHA, NTP, IARC or ACGIH to be "probable" or "suspected" human carcinogens.

**Exotoxological Information:** Product may be toxic to aquatic organisms

**Section VIII Precautions for Safe Handling and Use**

**If Small Release:** Add sand, scoop or sweep into disposal container and hose down area.

**Waste Disposal Method:** Comply with all applicable Federal, State and Local Regulations. Guard against spontaneous combustion of improperly discarded oily rags.

**Storage and Handling:** Store in a cool, dry area, away from heat and open flames

**Section IX Control Measures**

**Respiratory Protection:** Use in a well-ventilated area.

**Ventilation:** Local, Adequate Exhaust

**Eyes:** Wear Chemical Safety Goggles

**Protective Gloves:** Neoprene Rubber Gloves

MARLENE SOLUTION

## MATERIAL SAFETY DATA SHEET

Page: 001

Date Prepared: 05/01/2010

Date Printed: 05/04/2010

MANUFACTURER:

**SECTION I PRODUCT IDENTIFICATION**  
 THE JOHN G. MARSHALL MFG. CO., INC.  
 626 HANOVER PIKE, SUITE 102  
 HAMPSTEAD, MD 21074

INFORMATION AND EMERGENCY PHONE DURING BUSINESS HOURS 800-777-6634

FOR EMERGENCY ASSISTANCE INVOLVING A SPILL, LEAK, OR FIRE WITH THIS  
 PRODUCT CALL CHEMTREC 800-424-9300

PHYSICAL DATA: BLENDED SOLUTION

SYNONYMS: NONE

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

Ingredient(s)	CAS Number	% (by volume)
Trichloroethylene	79-01-6	75.0
Propylene Glycol Monomethyl Ether Acetate	(108-65-6)	25.0

**3. HAZARDS IDENTIFICATION****Potential Health Effects****Eye**

Exposure causes eye irritation. Symptoms may include stinging, tearing, redness, and swelling.

**Skin**

Exposure may cause mild skin irritation. Prolonged or repeated exposure may dry the skin. Symptoms may include redness, burning, drying and cracking, and skin burns.

**Swallowing**

Single dose oral toxicity is low. Swallowing small amounts during normal handling is not likely to cause harmful effects; swallowing large amounts may be harmful. This material can enter the lungs during swallowing or vomiting and cause lung inflammation and/or damage.

**Inhalation**

Exposure to vapor or mist is possible. Short-term inhalation toxicity is low. Breathing small amounts during normal handling is not likely to cause harmful effects; breathing large amounts may be harmful.

**Symptoms of Exposure**

gastrointestinal irritation (nausea, vomiting, diarrhea), irritation (nose, throat, respiratory tract), central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness), and death.

**Target Organ Effect**

Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals, and may aggravate pre-existing disorders of these organs in humans: liver abnormalities, spleen damage, nervous system damage, kidney damage, lung damage, brain damage. Overexposure to this material (or its components) has been suggested as a cause of the following effects in humans, and may aggravate pre-existing disorders of these organs: liver abnormalities, anemia, lung damage.

**Developmental Information**

No data

Continued on the next page

## MATERIAL SAFETY DATA SHEET

Page: 002  
Date Prepared: 05/01/2010  
Date Printed: 05/04/2010

**Cancer Information**

Some studies with trichloroethylene in laboratory animals have produced cancer (primarily liver and/or lung), while others have not. The relevance of these findings to humans is uncertain. There is no evidence that trichloroethylene causes cancer in humans. Trichloroethylene is not listed as a carcinogen by IARC, NTP, or OSHA.

**Other Health Effects**

No Data

**Primary Route(s) of Entry**

Inhalation, Skin contact.

---

**4. FIRST AID MEASURES****Eyes**

If symptoms develop, immediately move individual away from exposure and into fresh air. Flush eyes gently with water for at least 15 minutes while holding eyelids apart; seek immediate medical attention.

**Skin**

Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before reuse.

**Swallowing**

Do not induce vomiting. This material is an aspiration hazard. If individual is drowsy or unconscious, place on left side with the head down. Seek medical attention. If possible, do not leave individual unattended.

**Inhalation**

If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention; keep person warm and quiet. If person is not breathing, begin artificial respiration. If breathing is difficult, administer oxygen.

**Note to Physicians**

Inhalation of high concentrations of this material, as could occur in enclosed spaces or during deliberate abuse, may be associated with cardiac arrhythmia. Sympathomimetic drugs may initiate cardiac arrhythmia in persons exposed to this material.

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**5. FIRE FIGHTING MEASURES****Flash Point**

120°F TCC

**Explosive Limit**

(for component) Lower 2.0%

**Autoignition Temperature**

670°F

**Hazardous Products of Combustion**

May form: carbon dioxide and carbon monoxide, hydrogen chloride, phosgene, various hydrocarbons.

**Fire and Explosion Hazards**

Vapors are heavier than air and may travel along the ground or may be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electric motors, static discharge, or other ignition sources at locations distant from material handling point. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

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## MATERIAL SAFETY DATA SHEET

Page: 003

Date Prepared: 05/01/2010

Date Printed: 05/04/2010

**Extinguishing Media**

Regular foam, water fog, carbon dioxide, dry chemical

**Fire Fighting Instructions**

Wear self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment. Refer to the personal protective equipment section of this MSDS.

**NFPA Rating**

Not determined.

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**6. ACCIDENTAL RELEASE MEASURES****Small Spill**

Absorb liquid on vermiculite, floor absorbent or other absorbent material.

**Large Spill**

Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source. Prevent from entering drains, sewers, streams or other bodies of water. Prevent from spreading. If runoff occurs, notify authorities as required. Pump or vacuum transfer spilled product to clean containers for recovery. Absorb unrecoverable product. Transfer contaminated absorbent, soil and other materials to containers for disposal. Prevent run-off to sewers, streams or other bodies of water. If run-off occurs, notify proper authorities as required, that a spill has occurred.

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**7. HANDLING AND STORAGE****Handling**

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed. All five gallon pails and larger metal containers including tank cars and tank trucks should be grounded and/or bonded when material is transferred. Warning. Sudden release of hot organic chemical vapors or mists from process equipment operating at elevated temperature and pressure, or sudden ingress of air into vacuum equipment, may result in ignitions without the presence of obvious ignition sources. Published "autoignition" or "ignition" temperature values cannot be treated as safe operating temperatures in chemical processes without analysis of the actual process conditions. Any use of this product in elevated temperature processes should be thoroughly evaluated to establish and maintain process equipment operating at elevated temperature and pressure, or sudden ingress of air into vacuum equipment, may result in ignitions without the presence of obvious ignition sources. Published "autoignition" or "ignition" temperature values cannot be treated as safe operating temperatures in chemical processes without analysis of the actual process conditions. Any use of this product in elevated temperature processes should be thoroughly evaluated to establish and maintain safe operating conditions.

**Storage**

Aluminum equipment should not be used for storage and/or transfer, e.g. pumps, mixers, fittings, storage tanks, etc. Contact with aluminum parts in a pressurizable fluid system may cause violent reactions.

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Eye Protection**

Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type of safety glasses. Consult your safety representative.

**Skin Protection**

Wear resistant gloves (consult your safety equipment supplier). To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

Continued on the next page

## MATERIAL SAFETY DATA SHEET

Page: 004

Date Prepared: 05/01/2010

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**Respiratory Protections**

If workplace exposure limit(s) of product or any component is exceeded (see exposure guidelines), a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure type) under specified conditions (see your industrial hygienist). Engineering or administrative controls should be implemented to reduce exposure.

**Engineering Controls**

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s).

**Exposure Guidelines**

Component

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TRICHLOROETHYLENE (79-01-6)  
OSHA VPEL 50.000 ppm - TWA  
OSHA VPEL 200.000 ppm - STEL  
ACGIH TLV 50.000 ppm - TWA  
ACGIH TLV 100.000 ppm - STEL  
Glycol Ether PM Acetate (108-65-6)  
No Exposure Limits Established

**9. PHYSICAL AND CHEMICAL PROPERTIES****Boiling Point**

(for components) 188°F (86.7°C)

**Vapor Pressure**

(for components) 58 mmHg @ 68.00°F

**Specific Vapor Density**

4.55 @ AIR=1

**Specific Gravity**

1.337 @ 77.00°F

**Liquid Density**

11.14 lbs/gal @ 77.00°F

1.336 kg/l @ 25.00°C

**Percent Volatiles**

100.0%

**Evaporation Rate**

SLOWER THAN ETHYL ETHER

**Appearance**

Colorless Liquid

**State**

Liquid

**Physical Form**

Homogeneous Solution

**Color**

No Data

Continued on the next page

## MATERIAL SAFETY DATA SHEET

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**Odor** No Data  
**pH** Not Applicable

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**10. STABILITY AND REACTIVITY****Hazardous Polymerization**

Product will not undergo hazardous polymerization.

**Hazardous Decomposition**

May form; carbon dioxide and carbon monoxide, hydrogen chloride, phosgene, various hydrocarbons.

**Chemical Stability**

Stable.

**Incompatibility**

Avoid contact with: aluminum, strong alkalies, strong oxidizing agents.

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**11. TOXICOLOGICAL INFORMATION**

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**12. ECOLOGICAL INFORMATION**

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**13. DISPOSAL CONSIDERATION****Waste Management Information**

Dispose of in accordance with all applicable local, state and federal regulations.

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**14. TRANSPORT INFORMATION****DOT Information - 49 CFR 172.101****DOT Description:**

COMPOUNDS, CLEANING, N.O.S. Combustible Liquid, Keep away from Food - NA1993, III

**Container/Mode:**

55 GAL DRUM/TRUCK PACKAGE

**NOS Component:****RQ (Reportable Quantity) - 49 CFR 172.101**

100 lbs.

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**15. REGULATORY INFORMATION****US Federal Regulations****TSCA (Toxic Substances Control Act) Status**

TSCA (UNITED STATES) The intentional ingredients of this product are listed

Continued on the next page

## MATERIAL SAFETY DATA SHEET

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**CERCLA RQ - 40 CFR 302.4**

Component  
 TRICHLOROETHYLENE

RQ (lbs)  
 100

**SARA 302 Components - 40 CFR 355 Appendix A**

None

**Section 311/312 Hazard Class - 40 CFR 370.2**

Immediate( ) Delayed (X) Fire (X) Reactive ( ) Sudden Release of Pressure ( )

**SARA 313 Components - 40 CFR 372.65**

Section 313 Component(s)  
 TRICHLOROETHYLENE

CAS Number  
 79-01-6

Max %  
 75.00

**International Regulations**

Inventory Status  
 Not determined

**State and Local Regulations****California Proposition 65**

The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986: This product contains the following substance(s) known to the state of California to cause cancer.

TRICHLOROETHYLENE

**New Jersey RTK Label Information**

TRICHLOROETHYLENE  
 Glycol Ether PM Acetate

79-01-6  
 108-65-6

**Pennsylvania RTK Label Information**

ETHENE, TRICHLORO-  
 Glycol Ether PM Acetate

79-01-6  
 108-65-6

**16. OTHER INFORMATION**

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

\*\*\*\*\*END\*\*\*\*\*