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Revised 10-17-03

**Hazardous Safety Data Sheet**

Required under USOC Safety and Health Regulations for Employee Employment (29 CFR 1910)

Occupational Safety and Health Administration

OSHA No. 1211-0072

Expiration Date

MARSHALL'S OIL PENCILS

**Section I**

Manufacturer's Name

Emergency Telephone Number

BEA MARSHALL'S COLORING SYSTEM

800-621-5488

Address (Number, Street, City, State and ZIP Code)

Trade Name

701 CORPORATE WOODS PKWY

and Synonyms

VERNON HILLS, IL 60061

Chemical

Formula

Family

**Section II**

**Section IIa - Hazardous Ingredients**

% TLV (Units)

**Section IIb - Non-Hazardous Ingredient**

% TLV (Units)

pigments

14 - 38 %

cellulose derivatives

3 - 15 %

emulsifier

5 - 11.5 %

waxes

7 - 15 %

clay

33 - 62 %

Hazardous Mixtures of Other Liquids, Solids or Gases

% TLV (Units)

**Section III - Physical Data**

Boiling Point (°F)

SOLID

Specific Gravity (H<sub>2</sub>O=1)

1.35 - 2.07

Vapor Pressure (mm Hg.)

SOLID

Percent Volatils by Volume (%)

Vapor Density (AIR=1)

SOLID

Evaporation Rate

= 1;

Solubility in Water

PARTLY SOLUBLE (< 10%)

Appearance and Odor

LEAD COLOURED. ODORLESS

**Section IV - Fire and Explosion Hazard Data**

Flash Point (Method used)

> 200°C

Flammable Limits

Ls:

Hs:

Extinguishing Media

water, CO<sub>2</sub>, powder or foam extinguisher

Special Fire Fighting Procedures

none

Unusual Fire and Explosion Hazard

none

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**Section V - Health Hazard Data**

Threshold Limit Value	not known
Effects of Overexposure	not known
Emergency First Aid Procedures	oral ingestion: in case of trouble visit a doctor
	eye contact: wash out generously with water, visit a doctor
	skin contact: wash generously with water and soap

**Section VI - Reactivity Data**

Stability	Unstable		Conditions to Avoid
	Stable	X	
Incompatibility (Materials to Avoid)			
NOT KNOW			
Hazardous Decomposition Products			

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will not Occur	X	

**Section VII - Spill or Leak Procedures**

Steps to be Taken in Case Material is Released or Spilled

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Waste Disposal Method

Dispose in accordance to local, state and federal regulations

**Section VIII - Special Protection Information**

Respiratory Protection (Specify Type)

NONE

Ventilation	Local Exhaust		Special
	Mechanical (General)		Other

Protective Gloves

Eye Protection

Other Protective Equipment

NONE

**Section IX - Special Precautions**

Precautions to be Taken in handling and Storing

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Other Precautions

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Section VIII and IX only apply to larger amounts of the product

10/20/03 08:57 FAX 800 762 4711

BRANDESS KALT AETNA GROU

002

**MATERIAL SAFETY DATA SHEET**

**PRODUCT NAME:** MARSHALL PM SOLUTION **DATE:** 04/20/02  
**PRODUCT CODE(S):** MS-PMS; MS-PMS-1; MS-PMS 1/2 oz in Introductory Oil Set

**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.

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

**SECTION II HAZARDOUS INGREDIENTS**

COMPONENTS	CAS #	WEIGHT %
TURPENTINE	8006-64-2	Less than 90%

**SECTION III PHYSICAL / CHEMICAL CHARACTERISTICS**

**BOILING POINT:** 7300°F  
**COLOR:** WATER-WHITE  
**SOLUBILITY IN WATER:** NEGLIGIBLE  
**EVAPORATION RATE:** SLOWER THAN ETHER  
**STABILITY:** PRODUCT IS STABLE UNDER NORMAL CONDITIONS

**SECTION IV FIRE AND EXPLOSION HAZARD DATA**

**FLASH POINT:** 90°F (CLOSED CUP)  
**FLAMMABLE LIMITS:** FLAMMABLE LIQUID - CLASS 1C  
**EXTINGUISHING MEDIA:** CARBON DIOXIDE, DRY CHEMICAL, FOAM, OR SAND  
**SPECIAL FIRE FIGHTING INSTRUCTIONS:** MATERIAL IS A MODERATE FIRE AND  
EXPLOSION HAZARD. USE ONLY WATER TO KEEP FIRE -EXPOSED  
CONTAINERS COOL. WEAR SELF-CONTAINED BREATHING APPARATUS  
PRESSURE-DEMAND (MSHA/NIOSH APPROVED OR EQUIVALENT) AND FULL  
PROTECTIVE GEAR.  
**UNUSUAL FIRE & EXPLOSION HAZARDS:** FLAMMABLE. VAPORS MAY CAUSE A  
FLASH FIRE AND EXPLOSION HAZARD. VAPORS MAY TRAVEL CONSIDERABLE  
DISTANCE TO A SOURCE OF IGNITION AND FLASH BACK.

**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

## MARSHALL PM SOLUTION

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**SECTION VI HEALTH HAZARD DATA**

**CHRONIC EFFECTS OF OVEREXPOSURE/CARCINOGENICITY:** MAY CAUSE PREDISPOSITION TO PNEUMONIA AND CHRONIC NEPHRITIS. CHRONIC EXPOSURE CAN PRODUCE ALLERGENIC SENSITIZATION. THE NATIONAL TOXICOLOGY PROGRAM (NTP) CONCLUDED THAT TWO-YEAR GAVAGE STUDIES WITH d-LIMONENE, A COMPONENT OF THIS PRODUCT, INDICATE CLEAR EVIDENCE OF CARCINOGENIC ACTIVITY IN MALE RATS, BUT NOT IN FEMALE RATS, NOR IN MALE OR FEMALE MICE. HOWEVER, INVESTIGATION OF THE METABOLISM OF d-LIMONENE IN VARIOUS SPECIES SUGGESTS THESE FINDINGS ARE NOT RELEVANT TO HUMAN RISK ASSESSMENT. d-LIMONENE IS NOT LISTED AS A CARCINOGEN BY THE NTP. IT IS NOT REGULATED AS A CARCINOGEN BY OSHA AND HAS NOT BEEN EVALUATED BY IARC. OTHER COMPONENTS OF THIS PRODUCT ARE NOT LISTED AS CARCINOGENS BY NTP, IARC, OR OSHA.

**SARA TITLE III HAZARD CATEGORIES:** FIRE HAZARD, IMMEDIATE (ACUTE) HEALTH HAZARD AND DELAYED (CHRONIC) HEALTH HAZARD.  
**CALIFORNIA PROPOSITION 65:** THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

**EMERGENCY AND FIRST AID PROCEDURES:**

**EYES:** IF IRRITATION, TEARING AND REDNESS PERSISTS, CONSULT A PHYSICIAN IMMEDIATELY.

**SKIN:** WASH AFFECTED AREA WITH WARM SOAPY WATER. IF IRRITATION DEVELOPS, SEEK MEDICAL ATTENTION.

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

**IF SWALLOWED:** GET MEDICAL ATTENTION IMMEDIATELY.

**SECTION VII 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.

**STORAGE AND HANDLING:** STORE IN A COOL, DRY AREA AWAY FROM HEAT AND OPEN FLAMES.

**SECTION VIII CONTROL MEASURES**

**RESPIRATORY PROTECTION:** USE IN A WELL-VENTILATED AREA.

**VENTILATION:** LOCAL, ADEQUATE EXHAUST

**EYES:** WEAR CHEMICAL SAFETY GOGGLES

**PROTECTIVE GLOVES:** NEOPRENE RUBBER GLOVES

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.